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SC Court of Appeals

THE STATE OF SOUTH CAROLINA  
In the Court of Appeals

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APPEAL FROM THE ADMINISTRATIVE LAW COURT

The Honorable Ralph King Anderson, III  
Chief Administrative Law Judge

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APPELLATE CASE NO. 2020-001323

ADMINISTRATIVE LAW COURT CASE NO.: 18-ALJ-07-0358-CC  
ADMINISTRATIVE LAW COURT CASE NO.: 18-ALJ-07-0360-CC  
ADMINISTRATIVE LAW COURT CASE NO.: 18-ALJ-07-0366-CC

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CareAlliance Health Services, d/b/a Roper St. Francis Healthcare,  
Roper Hospital, Inc., Bon Secours-St. Francis Xavier Hospital, Inc.,  
Roper St. Francis Berkeley Hospital and Roper Mount Pleasant  
Hospital,.....Respondent,

v.

South Carolina Department of Health and Environmental Control and  
Medical University Hospital Authority, d/b/a MUHA Community Hospital,.....Respondents,

AND

Walterboro Community Hospital, Inc., d/b/a Colleton Medical Center,.....Appellant,

v.

South Carolina Department of Health and Environmental Control and  
Medical University Hospital Authority, d/b/a MUHA Community Hospital,.....Respondents,

AND

Trident Medical Center, LLC d/b/a Trident Medical Center  
and Summerville Medical Center,.....Appellants,

v.

South Carolina Department of Health and Environmental Control and  
Medical University Hospital Authority, d/b/a MUHA Community Hospital,.....Respondents.

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**RECORD ON APPEAL - VOLUME 12 OF 12**

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**Berkeley Hospital and Roper**  
**Mount Pleasant Hospital**

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**Joint Exh. 1-0974**

The Regional Medical Center of Orangeburg and Calhoun Counties' ("RMC") Letter of Opposition and Affected Person-DHEC Matter No. 2520

jwhw1917@aol.com

Mon 7/23/2018 5:31 PM

To: Murdock, Margaret P. <murdocmp@dhec.sc.gov>;

July 23, 2018

Margaret P. Murdock, Esquire  
Director, Certificate of Need Program  
Bureau of Healthcare Planning and Construction  
SC Department of Health and Environmental Control  
301 Gervais Street  
Columbia, South Carolina 29201

**RE: Medical University Hospital Authority d/b/a MUHA Community Hospital  
Certificate of Need application for the construction of a 128 bed general acute hospital in  
Berkeley County at a total project cost of \$325,000,000  
DHEC Matter No. 2520**

Dear Ms. Murdock:

I am writing to express my concern about the above referenced project. Approval of this CON will certainly threaten healthcare to the counties that the Regional Medical Center of Orangeburg & Calhoun Counties (RMC) serves.

I respectfully request that the Bureau of Healthcare Planning and Construction consider the adverse impact to RMC and deny the application.

Sincerely,

William H. Wilson, RMC Board

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DHEC CON 000974

**ROA 005288**

7/26/2018

Mail - GerralN@dhec.sc.gov

**Joint Exh. 1-0975**  
**Fw: Project costs summary**

Murdock, Margaret P.

Thu 7/26/2018 11:29 AM

To: Gerrald, Nic <GerralN@dhec.sc.gov>;

**Maggie Parham Murdock**  
Director, Certificate of Need Program  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 545-4492  
Mobile: (803) 360-5770  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** David S Levitt <david.levitt@levitthealthcare.com>

**Sent:** Friday, July 20, 2018 3:25 PM

**To:** Murdock, Margaret P.

**Subject:** Project costs summary

Maggie – Below is a summary per bed of the 3 Berkeley County hospital projects. Even without inflation adjustments, the MUHA project costs are not substantially different than the other 2 projects.

Cost per Bed Analysis

|                           | Year | Total Project Costs | Construction & Equipment |
|---------------------------|------|---------------------|--------------------------|
| Roper Berkeley Hospital   | 2008 | \$ 2,259,742        | \$ 1,603,454             |
| Trident Berkeley Hospital | 2008 | \$ 2,300,000        | \$ 1,688,118             |
| MUHA Berkeley Hospital    | 2017 | \$ 2,539,063        | \$ 1,527,386             |

Source: CON applications

**David S. Levitt**  
Levitt Healthcare Affiliates

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DHEC CON 000975

<https://outlook.office365.com/owa/>

1/2

**ROA 005289**

7/26/2018

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**Joint Exh. 1-0976**  
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Thank you.

7/26/2018

Mail - GerralN@dhec.sc.gov

**Joint Exh. 1-0977**  
**Fw: projections**

Murdock, Margaret P.

Thu 7/26/2018 11:29 AM

To: Gerrald, Nic <GerralN@dhec.sc.gov>;

📎 2 attachments (283 KB)

SC RFA \_IP OOC\_Berkeley\_2014.pdf; SC RFA \_IP OOC\_Berkeley\_2016.pdf;

**Maggie Parham Murdock**  
Director, Certificate of Need Program  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 545-4492  
Mobile: (803) 360-5770  
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---

**From:** David S Levitt <david.levitt@levitthealthcare.com>  
**Sent:** Monday, July 23, 2018 11:31 AM  
**To:** willthomas@parkerpoe.com; rbarbier@nexsenpruet.com  
**Cc:** Murdock, Margaret P.; baciks@musc.edu  
**Subject:** RE: projections

All -- Sorry I forgot to copy the group on this email.

**From:** David S Levitt [mailto:david.levitt@levitthealthcare.com]  
**Sent:** Monday, July 23, 2018 9:00 AM  
**To:** 'Murdock, Margaret P.' <murdocmp@dhec.sc.gov>  
**Subject:** projections

Maggie – below is the historical and projected total MUHA admissions by market and the projected admissions at the proposed MUHA Berkeley community hospital. The submarkets include a number of ZIP Codes. Certain ZIP Codes within each submarket are more accessible to the proposed MUHA Berkeley hospital. In addition, many residents would prefer elective admission to occur at a community hospital rather than at the main hospital, supporting the redirection assumptions.

**Joint Exh. 1-0078**

| Total OB & Acute Care | MUSC              |                      | Community Hospital   |
|-----------------------|-------------------|----------------------|----------------------|
|                       | Actual<br>FY 2017 | Projected<br>FY 2025 | Projected<br>FY 2025 |
| North Charleston      | 3,848             | 4,404                | 1,984                |
| Summerville           | 1,757             | 2,011                | 1,151                |
| West Ashley           | 1,660             | 1,900                | 616                  |
| East Cooper           | 1,515             | 1,734                | 522                  |
| Sea Islands           | 1,534             | 1,755                | 500                  |
| Peninsula Charleston  | 886               | 1,014                | 354                  |
| Outside Tri-County    | 8,459             | 9,680                | 321                  |
| Moncks Corner         | 675               | 772                  | 252                  |
| Outside SC            | 887               | 1,015                | -                    |
| <b>Total</b>          | <b>21,221</b>     | <b>24,285</b>        | <b>5,700</b>         |

| Projected Growth | Variance |        | % of 2025 admissions |
|------------------|----------|--------|----------------------|
| <b>SC Total</b>  | 20,334   | 23,270 | 51.5%                |

Also important to note that more than half of the projected volume is a result of the modest growth projected (1.7% annually based only on projected population growth). Based on RFA data (attached) the actual Berkeley count admissions have increased 7% annually. Using the 7% rather than 1.7% would result in nearly 1,600 more projected admissions from just the North Charleston and Summerville sub markets.

|                             |        |        | Growth     |      |
|-----------------------------|--------|--------|------------|------|
|                             | 2014   | 2016   | Admissions | CAGR |
| Berekeley County Admissions | 14,635 | 16,759 | 2,124      | 7.0% |

Source: SC RFA

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7/26/2018

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## **Joint Exh. 1-0979**

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Thank you.

## Joint Exh. 1-0980

# Number and Percent of Inpatient Discharges Occurring Outside of the Patient's County of Residence

## Period Covered: October 2013 - September 2014

### By County Where Service Occurred and AHRQ CCS Diagnosis Categories, Excluding Newborns

\*\* Includes inpatient discharges from all non-federal acute care hospitals  
and hospitals in Georgia and North Carolina. \*\*

#### For Residents of Berkeley County

| Discharges                        |        |          | Number and Percent of Inpatient Discharges Occurring Outside of the Patient's County of Residence, by County Where Service Occurred |     |       |                           |        |       |
|-----------------------------------|--------|----------|-------------------------------------------------------------------------------------------------------------------------------------|-----|-------|---------------------------|--------|-------|
| Number Served                     |        | Pct. OOC | County Discharges Percent                                                                                                           |     |       | County Discharges Percent |        |       |
| In County                         | Out    |          |                                                                                                                                     |     |       |                           |        |       |
| State Total for All Conditions    |        |          |                                                                                                                                     |     |       |                           |        |       |
| 0                                 | 14,635 | 100%     | Aiken                                                                                                                               | 9   | 0.1%  | Anderson                  | 1      | 0%    |
|                                   |        |          | Beaufort                                                                                                                            | 10  | 0.1%  | Charleston                | 14,207 | 97.1% |
|                                   |        |          | Clarendon                                                                                                                           | 13  | 0.1%  | Colleton                  | 132    | 0.9%  |
|                                   |        |          | Darlington                                                                                                                          | 1   | 0%    | Dillon                    | 1      | 0%    |
|                                   |        |          | Edgefield                                                                                                                           | 1   | 0%    | Florence                  | 22     | 0.2%  |
|                                   |        |          | Georgetown                                                                                                                          | 4   | 0%    | Greenville                | 8      | 0.1%  |
|                                   |        |          | Greenwood                                                                                                                           | 6   | 0%    | Horry                     | 23     | 0.2%  |
|                                   |        |          | Laurens                                                                                                                             | 1   | 0%    | Lexington                 | 11     | 0.1%  |
|                                   |        |          | Newberry                                                                                                                            | 1   | 0%    | Orangeburg                | 17     | 0.1%  |
|                                   |        |          | Pickens                                                                                                                             | 1   | 0%    | Richland                  | 19     | 0.1%  |
|                                   |        |          | Spartanburg                                                                                                                         | 4   | 0%    | Sumter                    | 1      | 0%    |
|                                   |        |          | Williamsburg                                                                                                                        | 1   | 0%    | York                      | 5      | 0%    |
|                                   |        |          | Georgia                                                                                                                             | 79  | 0.5%  | N.Carolina                | 57     | 0.4%  |
| Infectious and Parasitic Diseases |        |          |                                                                                                                                     |     |       |                           |        |       |
| 0                                 | 726    | 100%     | Charleston                                                                                                                          | 709 | 97.7% | Colleton                  | 4      | 0.6%  |
|                                   |        |          | Florence                                                                                                                            | 1   | 0.1%  | Greenwood                 | 1      | 0.1%  |

DHEC CON 000980

**Joint Exh. 1-0981**

|                                                                              |       |      |            |       |       |             |     |       |
|------------------------------------------------------------------------------|-------|------|------------|-------|-------|-------------|-----|-------|
|                                                                              |       |      | Orangeburg | 1     | 0.1%  | Richland    | 1   | 0.1%  |
|                                                                              |       |      | York       | 1     | 0.1%  | Georgia     | 3   | 0.4%  |
|                                                                              |       |      | N.Carolina | 5     | 0.7%  |             |     |       |
| <b>Neoplasms</b>                                                             |       |      |            |       |       |             |     |       |
| 0                                                                            | 684   | 100% | Charleston | 675   | 98.7% | Edgefield   | 1   | 0.1%  |
|                                                                              |       |      | Florence   | 1     | 0.1%  | Lexington   | 2   | 0.3%  |
|                                                                              |       |      | Orangeburg | 1     | 0.1%  | Richland    | 1   | 0.1%  |
|                                                                              |       |      | N.Carolina | 3     | 0.4%  |             |     |       |
| <b>Endocrine; Nutritional; and Metabolic Diseases and Immunity Disorders</b> |       |      |            |       |       |             |     |       |
| 0                                                                            | 699   | 100% | Charleston | 682   | 97.6% | Florence    | 1   | 0.1%  |
|                                                                              |       |      | Georgetown | 1     | 0.1%  | Lexington   | 5   | 0.7%  |
|                                                                              |       |      | Richland   | 2     | 0.3%  | Spartanburg | 2   | 0.3%  |
|                                                                              |       |      | Sumter     | 1     | 0.1%  | Georgia     | 2   | 0.3%  |
|                                                                              |       |      | N.Carolina | 3     | 0.4%  |             |     |       |
| <b>Diseases of the Blood and Blood-Forming Organs</b>                        |       |      |            |       |       |             |     |       |
| 0                                                                            | 281   | 100% | Charleston | 271   | 96.4% | Clarendon   | 4   | 1.4%  |
|                                                                              |       |      | Colleton   | 1     | 0.4%  | Horry       | 1   | 0.4%  |
|                                                                              |       |      | Richland   | 1     | 0.4%  | Georgia     | 1   | 0.4%  |
|                                                                              |       |      | N.Carolina | 2     | 0.7%  |             |     |       |
| <b>Mental Illness</b>                                                        |       |      |            |       |       |             |     |       |
| 0                                                                            | 608   | 100% | Aiken      | 8     | 1.3%  | Charleston  | 462 | 76%   |
|                                                                              |       |      | Colleton   | 108   | 17.8% | Darlington  | 1   | 0.2%  |
|                                                                              |       |      | Florence   | 2     | 0.3%  | Richland    | 3   | 0.5%  |
|                                                                              |       |      | York       | 2     | 0.3%  | Georgia     | 16  | 2.6%  |
|                                                                              |       |      | N.Carolina | 6     | 1%    |             |     |       |
| <b>Diseases of the Nervous System and Sense Organs</b>                       |       |      |            |       |       |             |     |       |
| 0                                                                            | 327   | 100% | Beaufort   | 1     | 0.3%  | Charleston  | 321 | 98.2% |
|                                                                              |       |      | Clarendon  | 1     | 0.3%  | Florence    | 1   | 0.3%  |
|                                                                              |       |      | Orangeburg | 1     | 0.3%  | Georgia     | 1   | 0.3%  |
|                                                                              |       |      | N.Carolina | 1     | 0.3%  |             |     |       |
| <b>Diseases of the Circulatory System</b>                                    |       |      |            |       |       |             |     |       |
| 0                                                                            | 2,277 | 100% | Charleston | 2,243 | 98.5% | Clarendon   | 2   | 0.1%  |
|                                                                              |       |      | Colleton   | 4     | 0.2%  | Florence    | 3   | 0.1%  |
|                                                                              |       |      | Georgetown | 1     | 0%    | Greenville  | 2   | 0.1%  |

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**Joint Exh. 1-0982**

|                                                                     |       |      |              |       |       |             |       |       |
|---------------------------------------------------------------------|-------|------|--------------|-------|-------|-------------|-------|-------|
|                                                                     |       |      | Greenwood    | 2     | 0.1%  | Horry       | 6     | 0.3%  |
|                                                                     |       |      | Lexington    | 1     | 0%    | Orangeburg  | 1     | 0%    |
|                                                                     |       |      | Richland     | 1     | 0%    | Georgia     | 4     | 0.2%  |
|                                                                     |       |      | N.Carolina   | 7     | 0.3%  |             |       |       |
| <b>Diseases of the Respiratory System</b>                           |       |      |              |       |       |             |       |       |
| 0                                                                   | 1,274 | 100% | Charleston   | 1,243 | 97.6% | Clarendon   | 3     | 0.2%  |
|                                                                     |       |      | Colleton     | 6     | 0.5%  | Florence    | 1     | 0.1%  |
|                                                                     |       |      | Greenville   | 1     | 0.1%  | Horry       | 3     | 0.2%  |
|                                                                     |       |      | Laurens      | 1     | 0.1%  | Orangeburg  | 6     | 0.5%  |
|                                                                     |       |      | Richland     | 1     | 0.1%  | Spartanburg | 1     | 0.1%  |
|                                                                     |       |      | Georgia      | 3     | 0.2%  | N.Carolina  | 5     | 0.4%  |
| <b>Diseases of the Digestive System</b>                             |       |      |              |       |       |             |       |       |
| 0                                                                   | 1,454 | 100% | Aiken        | 1     | 0.1%  | Anderson    | 1     | 0.1%  |
|                                                                     |       |      | Beaufort     | 6     | 0.4%  | Charleston  | 1,416 | 97.4% |
|                                                                     |       |      | Clarendon    | 2     | 0.1%  | Colleton    | 2     | 0.1%  |
|                                                                     |       |      | Florence     | 2     | 0.1%  | Greenwood   | 1     | 0.1%  |
|                                                                     |       |      | Horry        | 5     | 0.3%  | Lexington   | 1     | 0.1%  |
|                                                                     |       |      | Orangeburg   | 1     | 0.1%  | Richland    | 1     | 0.1%  |
|                                                                     |       |      | Williamsburg | 1     | 0.1%  | York        | 2     | 0.1%  |
|                                                                     |       |      | Georgia      | 9     | 0.6%  | N.Carolina  | 3     | 0.2%  |
| <b>Diseases of the Genitourinary System</b>                         |       |      |              |       |       |             |       |       |
| 0                                                                   | 807   | 100% | Beaufort     | 1     | 0.1%  | Charleston  | 793   | 98.3% |
|                                                                     |       |      | Clarendon    | 1     | 0.1%  | Florence    | 2     | 0.2%  |
|                                                                     |       |      | Lexington    | 1     | 0.1%  | Georgia     | 3     | 0.4%  |
|                                                                     |       |      | N.Carolina   | 6     | 0.7%  |             |       |       |
| <b>Complications of Pregnancy; Childbirth; and the Puerperium</b>   |       |      |              |       |       |             |       |       |
| 0                                                                   | 2,255 | 100% | Charleston   | 2,244 | 99.5% | Colleton    | 1     | 0%    |
|                                                                     |       |      | Florence     | 1     | 0%    | Horry       | 3     | 0.1%  |
|                                                                     |       |      | Newberry     | 1     | 0%    | Orangeburg  | 2     | 0.1%  |
|                                                                     |       |      | N.Carolina   | 3     | 0.1%  |             |       |       |
| <b>Diseases of the Skin and Subcutaneous Tissue</b>                 |       |      |              |       |       |             |       |       |
| 0                                                                   | 221   | 100% | Charleston   | 219   | 99.1% | Greenville  | 1     | 0.5%  |
|                                                                     |       |      | Georgia      | 1     | 0.5%  |             |       |       |
| <b>Diseases of the Musculoskeletal System and Connective Tissue</b> |       |      |              |       |       |             |       |       |

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**Joint Exh 1-0983**

|                                                                                          |       |      |            |       |       |             |       |       |
|------------------------------------------------------------------------------------------|-------|------|------------|-------|-------|-------------|-------|-------|
| 0                                                                                        | 1,237 | 100% | Charleston | 1,222 | 98.8% | Florence    | 1     | 0.1%  |
|                                                                                          |       |      | Greenville | 3     | 0.2%  | Horry       | 1     | 0.1%  |
|                                                                                          |       |      | Lexington  | 1     | 0.1%  | Orangeburg  | 1     | 0.1%  |
|                                                                                          |       |      | Richland   | 3     | 0.2%  | Spartanburg | 1     | 0.1%  |
|                                                                                          |       |      | Georgia    | 1     | 0.1%  | N.Carolina  | 3     | 0.2%  |
| <b>Congenital Anomalies</b>                                                              |       |      |            |       |       |             |       |       |
| 0                                                                                        | 75    | 100% | Charleston | 74    | 98.7% | Georgia     | 1     | 1.3%  |
| <b>Certain Conditions Originating In the Perinatal Period</b>                            |       |      |            |       |       |             |       |       |
| 0                                                                                        | 77    | 100% | Charleston | 77    | 100%  |             |       |       |
| <b>Injury and Poisoning</b>                                                              |       |      |            |       |       |             |       |       |
| 0                                                                                        | 1,279 | 100% | Beaufort   | 1     | 0.1%  | Charleston  | 1,219 | 95.3% |
|                                                                                          |       |      | Colleton   | 2     | 0.2%  | Dillon      | 1     | 0.1%  |
|                                                                                          |       |      | Florence   | 4     | 0.3%  | Greenville  | 1     | 0.1%  |
|                                                                                          |       |      | Greenwood  | 1     | 0.1%  | Horry       | 4     | 0.3%  |
|                                                                                          |       |      | Orangeburg | 2     | 0.2%  | Pickens     | 1     | 0.1%  |
|                                                                                          |       |      | Richland   | 5     | 0.4%  | Georgia     | 32    | 2.5%  |
|                                                                                          |       |      | N.Carolina | 6     | 0.5%  |             |       |       |
| <b>Symptoms; Signs; and Ill-Defined Conditions and Factors Influencing Health Status</b> |       |      |            |       |       |             |       |       |
| 0                                                                                        | 301   | 100% | Beaufort   | 1     | 0.3%  | Charleston  | 285   | 94.7% |
|                                                                                          |       |      | Colleton   | 4     | 1.3%  | Florence    | 2     | 0.7%  |
|                                                                                          |       |      | Georgetown | 2     | 0.7%  | Greenwood   | 1     | 0.3%  |
|                                                                                          |       |      | Orangeburg | 1     | 0.3%  | Georgia     | 1     | 0.3%  |
|                                                                                          |       |      | N.Carolina | 4     | 1.3%  |             |       |       |
| <b>Residual Codes; Unclassified; All E Codes</b>                                         |       |      |            |       |       |             |       |       |
| 0                                                                                        | 53    | 100% | Charleston | 52    | 98.1% | Georgia     | 1     | 1.9%  |

Revenue and Fiscal Affairs - Health and Demographics

## Joint Exh. 1-0984

# Number and Percent of Inpatient Discharges Occurring Outside of the Patient's County of Residence

## Period Covered: October 2015 - September 2016

### By County Where Service Occurred and AHRQ CCS Diagnosis Categories, Excluding Newborns

\*\* Includes inpatient discharges from all non-federal acute care hospitals  
and hospitals in Georgia and North Carolina. \*\*

#### For Residents of Berkeley County

| Discharges                     |        |          | Number and Percent of Inpatient Discharges Occurring Outside of the Patient's County of Residence, by County Where Service Occurred |            |         |             |            |         |
|--------------------------------|--------|----------|-------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-------------|------------|---------|
| Number Served                  |        | Pct. OOC |                                                                                                                                     |            |         |             |            |         |
| In County                      | Out    |          | County                                                                                                                              | Discharges | Percent | County      | Discharges | Percent |
| State Total for All Conditions |        |          |                                                                                                                                     |            |         |             |            |         |
| 0                              | 16,759 | 100%     | Abbeville                                                                                                                           | 1          | 0%      | Aiken       | 3          | 0%      |
|                                |        |          | Anderson                                                                                                                            | 2          | 0%      | Beaufort    | 8          | 0%      |
|                                |        |          | Charleston                                                                                                                          | 16,403     | 97.9%   | Clarendon   | 18         | 0.1%    |
|                                |        |          | Colleton                                                                                                                            | 79         | 0.5%    | Florence    | 15         | 0.1%    |
|                                |        |          | Georgetown                                                                                                                          | 13         | 0.1%    | Greenville  | 10         | 0.1%    |
|                                |        |          | Greenwood                                                                                                                           | 6          | 0%      | Horry       | 14         | 0.1%    |
|                                |        |          | Jasper                                                                                                                              | 1          | 0%      | Kershaw     | 2          | 0%      |
|                                |        |          | Lexington                                                                                                                           | 7          | 0%      | Marion      | 1          | 0%      |
|                                |        |          | Oconee                                                                                                                              | 1          | 0%      | Orangeburg  | 17         | 0.1%    |
|                                |        |          | Richland                                                                                                                            | 28         | 0.2%    | Spartanburg | 4          | 0%      |
|                                |        |          | Sumter                                                                                                                              | 1          | 0%      | York        | 1          | 0%      |
|                                |        |          | Georgia                                                                                                                             | 53         | 0.3%    | N.Carolina  | 71         | 0.4%    |
|                                |        |          | Infectious and Parasitic Diseases                                                                                                   |            |         |             |            |         |
| 0                              | 1,174  | 100%     | Charleston                                                                                                                          | 1,156      | 98.5%   | Clarendon   | 2          | 0.2%    |
|                                |        |          | Colleton                                                                                                                            | 1          | 0.1%    | Florence    | 1          | 0.1%    |
|                                |        |          | Georgetown                                                                                                                          | 3          | 0.3%    | Horry       | 2          | 0.2%    |

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**Joint Exh. 1-0985**

|                                                                              |       |      |            |       |       |             |       |       |
|------------------------------------------------------------------------------|-------|------|------------|-------|-------|-------------|-------|-------|
|                                                                              |       |      | Kershaw    | 1     | 0.1%  | Orangeburg  | 2     | 0.2%  |
|                                                                              |       |      | N.Carolina | 6     | 0.5%  |             |       |       |
| <b>Neoplasms</b>                                                             |       |      |            |       |       |             |       |       |
| 0                                                                            | 756   | 100% | Charleston | 744   | 98.4% | Horry       | 1     | 0.1%  |
|                                                                              |       |      | Orangeburg | 1     | 0.1%  | N.Carolina  | 10    | 1.3%  |
| <b>Endocrine; Nutritional; and Metabolic Diseases and Immunity Disorders</b> |       |      |            |       |       |             |       |       |
| 0                                                                            | 741   | 100% | Aiken      | 1     | 0.1%  | Beaufort    | 1     | 0.1%  |
|                                                                              |       |      | Charleston | 724   | 97.7% | Clarendon   | 1     | 0.1%  |
|                                                                              |       |      | Colleton   | 1     | 0.1%  | Florence    | 1     | 0.1%  |
|                                                                              |       |      | Georgetown | 1     | 0.1%  | Greenville  | 1     | 0.1%  |
|                                                                              |       |      | Kershaw    | 1     | 0.1%  | Oconee      | 1     | 0.1%  |
|                                                                              |       |      | Orangeburg | 3     | 0.4%  | Richland    | 1     | 0.1%  |
|                                                                              |       |      | Georgia    | 3     | 0.4%  | N.Carolina  | 1     | 0.1%  |
| <b>Diseases of the Blood and Blood-Forming Organs</b>                        |       |      |            |       |       |             |       |       |
| 0                                                                            | 258   | 100% | Beaufort   | 1     | 0.4%  | Charleston  | 253   | 98.1% |
|                                                                              |       |      | Clarendon  | 2     | 0.8%  | Georgetown  | 1     | 0.4%  |
|                                                                              |       |      | N.Carolina | 1     | 0.4%  |             |       |       |
| <b>Mental Illness</b>                                                        |       |      |            |       |       |             |       |       |
| 0                                                                            | 1,177 | 100% | Aiken      | 1     | 0.1%  | Beaufort    | 1     | 0.1%  |
|                                                                              |       |      | Charleston | 1,087 | 92.4% | Colleton    | 66    | 5.6%  |
|                                                                              |       |      | Florence   | 3     | 0.3%  | Georgetown  | 1     | 0.1%  |
|                                                                              |       |      | Greenville | 1     | 0.1%  | Greenwood   | 4     | 0.3%  |
|                                                                              |       |      | Horry      | 1     | 0.1%  | Orangeburg  | 2     | 0.2%  |
|                                                                              |       |      | Richland   | 2     | 0.2%  | Spartanburg | 1     | 0.1%  |
|                                                                              |       |      | Georgia    | 3     | 0.3%  | N.Carolina  | 4     | 0.3%  |
| <b>Diseases of the Nervous System and Sense Organs</b>                       |       |      |            |       |       |             |       |       |
| 0                                                                            | 421   | 100% | Charleston | 407   | 96.7% | Greenville  | 1     | 0.2%  |
|                                                                              |       |      | Lexington  | 1     | 0.2%  | Spartanburg | 1     | 0.2%  |
|                                                                              |       |      | Georgia    | 2     | 0.5%  | N.Carolina  | 9     | 2.1%  |
| <b>Diseases of the Circulatory System</b>                                    |       |      |            |       |       |             |       |       |
| 0                                                                            | 2,562 | 100% | Anderson   | 1     | 0%    | Charleston  | 2,519 | 98.3% |
|                                                                              |       |      | Clarendon  | 5     | 0.2%  | Colleton    | 1     | 0%    |
|                                                                              |       |      | Florence   | 2     | 0.1%  | Greenville  | 1     | 0%    |
|                                                                              |       |      | Horry      | 2     | 0.1%  | Lexington   | 2     | 0.1%  |

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**Joint Exh. 1-0986**

|                                                                     |       |      |             |       |       |            |       |       |
|---------------------------------------------------------------------|-------|------|-------------|-------|-------|------------|-------|-------|
|                                                                     |       |      | Orangeburg  | 1     | 0%    | Richland   | 9     | 0.4%  |
|                                                                     |       |      | Spartanburg | 1     | 0%    | Georgia    | 6     | 0.2%  |
|                                                                     |       |      | N.Carolina  | 12    | 0.5%  |            |       |       |
| <b>Diseases of the Respiratory System</b>                           |       |      |             |       |       |            |       |       |
| 0                                                                   | 1,185 | 100% | Beaufort    | 1     | 0.1%  | Charleston | 1,163 | 98.1% |
|                                                                     |       |      | Clarendon   | 1     | 0.1%  | Colleton   | 4     | 0.3%  |
|                                                                     |       |      | Florence    | 2     | 0.2%  | Georgetown | 2     | 0.2%  |
|                                                                     |       |      | Greenwood   | 1     | 0.1%  | Horry      | 1     | 0.1%  |
|                                                                     |       |      | Orangeburg  | 2     | 0.2%  | Georgia    | 3     | 0.3%  |
|                                                                     |       |      | N.Carolina  | 5     | 0.4%  |            |       |       |
| <b>Diseases of the Digestive System</b>                             |       |      |             |       |       |            |       |       |
| 0                                                                   | 1,511 | 100% | Abbeville   | 1     | 0.1%  | Charleston | 1,488 | 98.5% |
|                                                                     |       |      | Clarendon   | 3     | 0.2%  | Florence   | 2     | 0.1%  |
|                                                                     |       |      | Georgetown  | 1     | 0.1%  | Greenville | 2     | 0.1%  |
|                                                                     |       |      | Horry       | 2     | 0.1%  | Jasper     | 1     | 0.1%  |
|                                                                     |       |      | Orangeburg  | 3     | 0.2%  | Georgia    | 6     | 0.4%  |
|                                                                     |       |      | N.Carolina  | 2     | 0.1%  |            |       |       |
| <b>Diseases of the Genitourinary System</b>                         |       |      |             |       |       |            |       |       |
| 0                                                                   | 702   | 100% | Beaufort    | 1     | 0.1%  | Charleston | 694   | 98.9% |
|                                                                     |       |      | Colleton    | 1     | 0.1%  | Lexington  | 1     | 0.1%  |
|                                                                     |       |      | Richland    | 1     | 0.1%  | York       | 1     | 0.1%  |
|                                                                     |       |      | Georgia     | 2     | 0.3%  | N.Carolina | 1     | 0.1%  |
| <b>Complications of Pregnancy; Childbirth; and the Puerperium</b>   |       |      |             |       |       |            |       |       |
| 0                                                                   | 2,621 | 100% | Aiken       | 1     | 0%    | Beaufort   | 2     | 0.1%  |
|                                                                     |       |      | Charleston  | 2,600 | 99.2% | Colleton   | 2     | 0.1%  |
|                                                                     |       |      | Georgetown  | 1     | 0%    | Greenville | 1     | 0%    |
|                                                                     |       |      | Horry       | 1     | 0%    | Lexington  | 1     | 0%    |
|                                                                     |       |      | Richland    | 2     | 0.1%  | Sumter     | 1     | 0%    |
|                                                                     |       |      | Georgia     | 4     | 0.2%  | N.Carolina | 5     | 0.2%  |
| <b>Diseases of the Skin and Subcutaneous Tissue</b>                 |       |      |             |       |       |            |       |       |
| 0                                                                   | 234   | 100% | Charleston  | 230   | 98.3% | Clarendon  | 1     | 0.4%  |
|                                                                     |       |      | Georgia     | 2     | 0.9%  | N.Carolina | 1     | 0.4%  |
| <b>Diseases of the Musculoskeletal System and Connective Tissue</b> |       |      |             |       |       |            |       |       |
| 0                                                                   | 1,443 | 100% | Anderson    | 1     | 0.1%  | Charleston | 1,423 | 98.6% |

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**Joint Exh. 1-0987**

|            |   |      |            |   |      |
|------------|---|------|------------|---|------|
| Clarendon  | 1 | 0.1% | Florence   | 1 | 0.1% |
| Georgetown | 1 | 0.1% | Greenville | 1 | 0.1% |
| Greenwood  | 1 | 0.1% | Horry      | 1 | 0.1% |
| Lexington  | 1 | 0.1% | Marion     | 1 | 0.1% |
| Orangeburg | 1 | 0.1% | Richland   | 3 | 0.2% |
| N.Carolina | 7 | 0.5% |            |   |      |

**Congenital Anomalies**

|   |    |      |            |    |       |          |   |      |
|---|----|------|------------|----|-------|----------|---|------|
| 0 | 72 | 100% | Charleston | 69 | 95.8% | Richland | 1 | 1.4% |
|   |    |      | N.Carolina | 2  | 2.8%  |          |   |      |

**Certain Conditions Originating In the Perinatal Period**

|   |    |      |            |    |       |           |   |    |
|---|----|------|------------|----|-------|-----------|---|----|
| 0 | 97 | 100% | Charleston | 95 | 97.9% | Lexington | 1 | 1% |
|   |    |      | Richland   | 1  | 1%    |           |   |    |

**Injury and Poisoning**

|   |       |      |            |       |       |             |   |      |
|---|-------|------|------------|-------|-------|-------------|---|------|
| 0 | 1,523 | 100% | Charleston | 1,476 | 96.9% | Clarendon   | 2 | 0.1% |
|   |       |      | Colleton   | 1     | 0.1%  | Florence    | 2 | 0.1% |
|   |       |      | Georgetown | 2     | 0.1%  | Greenville  | 2 | 0.1% |
|   |       |      | Horry      | 3     | 0.2%  | Orangeburg  | 1 | 0.1% |
|   |       |      | Richland   | 8     | 0.5%  | Spartanburg | 1 | 0.1% |
|   |       |      | Georgia    | 21    | 1.4%  | N.Carolina  | 4 | 0.3% |

**Symptoms; Signs; and Ill-Defined Conditions and Factors Influencing Health Status**

|   |     |      |            |     |       |            |   |      |
|---|-----|------|------------|-----|-------|------------|---|------|
| 0 | 216 | 100% | Charleston | 210 | 97.2% | Colleton   | 2 | 0.9% |
|   |     |      | Florence   | 1   | 0.5%  | Orangeburg | 1 | 0.5% |
|   |     |      | Georgia    | 1   | 0.5%  | N.Carolina | 1 | 0.5% |

**Residual Codes; Unclassified; All E Codes**

|   |    |      |          |   |      |            |    |       |
|---|----|------|----------|---|------|------------|----|-------|
| 0 | 66 | 100% | Beaufort | 1 | 1.5% | Charleston | 65 | 98.5% |
|---|----|------|----------|---|------|------------|----|-------|

**Revenue and Fiscal Affairs - Health and Demographics**

7/26/2018

Mail - GerralN@dhec.sc.gov

**Joint Exh. 1-0988**  
**Fw: projections**

Murdock, Margaret P.

Mon 7/23/2018 5:57 PM

To: Gerald, Nic <GerralN@dhec.sc.gov>;

For the file.

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**From:** Barbier, Ralph W. <RBarbier@nexsenpruet.com>  
**Sent:** Monday, July 23, 2018 4:59 PM  
**To:** david.levitt@levitthealthcare.com; willthomas@parkerpoe.com  
**Cc:** Murdock, Margaret P.; baciks@musc.edu  
**Subject:** RE: projections

Maggie,

Roper St. Francis offers the following response to the additional information submitted this morning by David Levitt. Ralph

1. While Berkeley County total patient volume did increase by +14% 2014 to 2016

- \* This is total cases -- including mental health and other tertiary and specialty cases -- many of which will not be served at the new community hospital
- \* Excluding mental health cases -- Berkeley County resident volume increased by only 1,555 cases 2014 to 2016 -- again including other specialty and tertiary cases that will not be treated at the community hospital
- \* With 5,700 total cases forecast for YR 3 of the new hospital -- it is clear that case growth alone is not going to fill the new facility

2. MUSC's (MUHA's) current Berkeley County medical / surgical case volume does not support the proposed new hospital

- \* Total MUSC case volume from Berkeley County, excluding OB and Mental Health cases, was only 2,379 cases
- \* This includes other specialty / tertiary cases that will not be treated at the new community hospital

<https://outlook.office365.com/owa/>

DHEC CON 0988

1/4

**ROA 005302**

7/26/2018

Mail - GerralN@dhec.sc.gov

**Joint Exh. 1-0989**

- \* Year 3 med / surg (excluding OB) forecasts for the new community hospital show 4,467 cases
- \* This is 88% above current total MUSC Berkeley County volume ( excluding OB and mental health cases but including specialty and tertiary services )
- \* Comparing actual non-OB cases to be performed at the new community hospital to current comparable non-OB and non-tertiary / specialty MUSC volumes results in the conclusion that the new hospital will need to treat close to double the Berkeley County cases currently treated at MUSC

3. MUSC's (MUHA's) current Berkeley County OB case volume does not support the proposed new hospital

- \* Total MUSC OB case volume from Berkeley County, was only 606 cases
- \* This includes tertiary / specialty OB cases that will not be treated at the new community hospital
- \* Year 3 obstetric forecasts for the new community hospital show 1,233 cases
- \* This is more than double the current MUSC Berkeley County OB volume (including specialty and tertiary OB services)
- \* Comparing actual OB cases to be performed at the new community hospital to current comparable non-tertiary / specialty MUSC OB volumes results in the conclusion that the new hospital will need to treat more than double the Berkeley County cases currently treated at MUSC

4. MUSC (MUHA) currently has a small and declining medical / surgical market share in Berkeley County -- with volume forecasts only achievable through significant market share growth -- at the expense of other existing providers

- \* Current 2016 MUSC (MUHA) Berkeley County market share -- excluding OB and mental health cases is 18.4% -- down from 19.0% in 2014
- \* Including OB in the profile only brings the MUSC (MUHA) 2016 market share to 19.2%
- \* The only way that MUHA will be able to achieve its volume forecasts is through a significant increase in market shares -- adversely impact other existing and approved providers

Ralph W. Barbier  
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-----Original Message-----

From: David S Levitt <david.levitt@levitthealthcare.com>  
Sent: Monday, July 23, 2018 11:31 AM  
To: 'Thomas, William R.' <willthomas@parkerpoe.com>; Barbier, Ralph W. <RBarbier@nexsenpruet.com>  
Cc: 'Murdock, Margaret P.' <murdockmp@dhec.sc.gov>; 'Bacik, Sarah Elizabeth' <baciks@musc.edu>  
Subject: RE: projections

All - Sorry I forgot to copy the group on this email.

From: David S Levitt [<mailto:david.levitt@levitthealthcare.com>]

DHEC CON 000989

<https://outlook.office365.com/owa/>

2/4

**ROA 005303**

7/26/2018

Mail - GerraIN@dhec.sc.gov

**Joint Exh 1-0990**

Sent: Monday, July 23, 2018 9:00 AM

To: 'Murdock, Margaret P.' <murdocmp@dhec.sc.gov>

Subject: projections

Maggie - below is the historical and projected total MUHA admissions by market and the projected admissions at the proposed MUHA Berkeley community hospital. The submarkets include a number of ZIP Codes. Certain ZIP Codes within each submarket are more accessible to the proposed MUHA Berkeley hospital. In addition, many residents would prefer elective admission to occur at a community hospital rather than at the main hospital, supporting the redirection assumptions.

Also important to note that more than half of the projected volume is a result of the modest growth projected (1.7% annually based only on projected population growth). Based on RFA data (attached) the actual Berkeley count admissions have increased 7% annually. Using the 7% rather than 1.7% would result in nearly 1,600 more projected admissions from just the North Charleston and Summerville sub markets.

David S. Levitt

Levitt Healthcare Affiliates

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(p) 404.315.9011

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DHEC CON 000990

3/4

**ROA 005304**

7/26/2018

Mail - GerralN@dhec.sc.gov

**Joint Exh. 1-0991**

david.levitt@levitthealthcare.com <<mailto:david.levitt@levitthealthcare.com>>

(cell) 404.964.2658

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Thank you.



William R. Thomas  
*Partner*  
Telephone: 803.253.8658  
Direct Fax: 803.255.8017  
willthomas@parkerpoe.com

Atlanta, GA  
Charleston, SC  
Charlotte, NC  
Columbia, SC  
Greenville, SC  
Raleigh, NC  
Spartanburg, SC

July 18, 2018

**VIA US MAIL AND EMAIL**

Margaret P. Murdock, Esquire  
Director, Certificate of Need Program  
Bureau of Healthcare Planning and Construction  
SC Department of Health and Environmental Control  
301 Gervais Street  
Columbia, South Carolina 29201



**Re: Medical University Hospital Authority d/b/a MUHA Community Hospital ("MUHA") – Certificate of Need application for the construction of a 128 bed general acute hospital in Berkeley County at a total project cost of \$325,000,000 DHEC Matter No. 2520**

Dear Ms. Murdock:

I write on behalf of Colleton Medical Center ("CMC") to state that CMC adopts by reference the letter dated July 18, 2018, filed on behalf of Trident Medical Center ("TMC") and Summerville Medical Center ("SMC") by Daniel J. Sullivan. While some portions of Mr. Sullivan's letter are specific to TMC and SMC, CMC believes that many of the general issues raised by SMC and TMC apply in the context of CMC's opposition. MUHA is simply attempting to enhance its access to residents in Berkeley and Dorchester Counties, and certain parts of Colleton County, so that it can capture market share in these areas from existing and proposed providers.

This enhanced access will impact CMC's already low general acute care bed utilization. Colleton's stated bed need in the South Carolina Health Plan is 68, and it currently has 116 beds, meaning that its occupancy rate in 2016 was 58.6%. CMC cannot afford to lose additional patients to MUHA, and it will experience material adverse effects in both patient volumes and staffing if DHEC approves MUHA's Certificate of Need application. The residents of Colleton County have good access to a community hospital in Colleton County like the one MUHA is proposing to build in Berkeley County.

As Mr. Hiott expressed in his earlier letter, rural healthcare is under threat in many parts of South Carolina, and many hospitals have discontinued operations. As CMC is in a very rural county, it relies on the Department to make critical health planning decision that will preserve rural healthcare.

**Joint Exh. 1-0993**

Margaret P. Murdock, Esquire  
July 18, 2018  
Page 2

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With best regards, I am

Sincerely,



William R. Thomas

WRT

cc: Jimmy Hiott  
CEO, Colleton Medical Center

DHEC CON 000993

**ROA 005307**

Joint Exh. 1-0994

# CORRESPONDENCE

DHEC CON 000994

ROA 005308

1/29/2018

Mail - murdocmp@dhec.sc.gov

**Joint Exh. 1-0995**  
MUSC Community Hospital CON Attachments

Cotter, Caroline <cotter@muscd.edu>

Mon 1/29/2018 2:27 PM

To: Gerald, Nic <GeraldN@dhec.sc.gov>;

C: Murdock, Margaret P. <murdocmp@dhec.sc.gov>; baciks@muscd.edu <baciks@muscd.edu>; Brisbin, Andrea <brisbina@muscd.edu>;

2 attachments (388 KB)

LEGAL DESCRIPTION NEW PARCEL A.docx; NEXTON MUHA PARCEL A BOUNDARY MAP - 1-26-18.pdf;

This message was sent securely by MUSC

Hey Nic- I have attached two additional attachments for the MUSC Community Hospital CON. These will fall under Attachment W.

Please let me know if you have any questions!

Thank you,  
Caroline

Caroline R. Cotter, MHA  
The Medical University of South Carolina  
Senior Planning Associate & Program Manager of Facility Planning  
[cotter@muscd.edu](mailto:cotter@muscd.edu)  
843-792-5603

-----  
This message was secured via TLS by [MUSC](#)

DHEC CON 000995

<https://outlook.office365.com/owa/?realm=dhec.sc.gov&exsvurl=1&ll-cc=1033&modurl=0>

1/1

**ROA 005309**

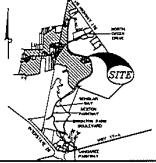
**LEGAL DESCRIPTION**

**PORTION OF TMS NO. 195-00-00-046 - NEW "PARCEL A"**

ALL THAT CERTAIN LOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN BERKELEY COUNTY, SOUTH CAROLINA, AND KNOWN AND DESIGNATED AS NEW "PARCEL A" OF NEXTON CONTAINING 1,743,765 SQ. FT. OR 40.031 ACRES, ON A BOUNDARY PLAT ENTITLED "BOUNDARY PLAT, NEW "PARCEL A" OF NEXTON, SHOWING THE BOUNDARY OF NEW "PARCEL A", A PORTION OF TRACT 2, TMS NO. 195-00-00-046, OWNED BY NASH – NEXTON HOLDINGS, LLC", PREPARED BY GPA PROFESSIONAL LAND SURVEYORS, DATED JANUARY 26, 2018 AND HAVING THE FOLLOWING METES AND BOUNDS TO WIT:

BEGINNING AT A PROPERTY CORNER LOCATED ON THE SOUTHERN RIGHT-OF-WAY OF NEXTON PARKWAY (RIGHT-OF-WAY VARIES), APPROXIMATELY 4,985' SOUTH FROM THE INTERSECTION OF NEXTON PARKWAY AND NORTH CREEK DRIVE, AND NOTED AS P.O.B., THENCE 194.69' ALONG THE RIGHT-OF-WAY OF NEXTON PARKWAY AMONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 7,955.00', A DELTA ANGLE OF 01°24'08", A CHORD BEARING OF S 79°07'02" E AND A CHORD DISTANCE OF 194.68' TO A PROPERTY CORNER; THENCE CONTINUING ALONG SAID RIGHT-OF-WAY, S 78°24'58" E, A DISTANCE OF 267.31' TO A PROPERTY CORNER; THENCE 1,474.00' ALONG SAID RIGHT-OF-WAY ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 1,295.00', A DELTA ANGLE OF 65°12'55", A CHORD BEARING OF S 45°48'30" E AND A CHORD DISTANCE OF 1,395.71' TO A PROPERTY CORNER; THENCE TURNING AND LEAVING SAID RIGHT-OF-WAY, S 82°33'27" W ALONG RESIDUAL "TRACT 2", A DISTANCE OF 582.63' TO PROPERTY CORNER; THENCE CONTINUING ALONG SAID PROPERTY, 939.58' ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 2,110.00', A DELTA ANGLE OF 25°30'50", A CHORD BEARING OF S 69°48'03" W AND A CHORD DISTANCE OF 931.84' TO A PROPERTY CORNER; THENCE TURNING AND CONTINUING ALONG SAID PROPERTY, N 32°57'22" W, A DISTANCE OF 225.24' TO A PROPERTY CORNER; THENCE CONTINUING ALONG SAID PROPERTY, N 25°27'58" W, A DISTANCE OF 30.55' TO A PROPERTY CORNER; THENCE CONTINUING ALONG SAID PROPERTY, N 59°26'25" W, A DISTANCE OF 109.12' TO A PROPERTY CORNER; THENCE CONTINUING ALONG SAID PROPERTY, N 62°43'21" W, A DISTANCE OF 119.69' TO A PROPERTY CORNER; THENCE CONTINUING ALONG SAID PROPERTY, N 51°26'39" W, A DISTANCE OF 51.15' TO A PROPERTY CORNER; THENCE CONTINUING ALONG SAID PROPERTY, N 56°21'04" W, A DISTANCE OF 41.71' TO A PROPERTY CORNER; THENCE CONTINUING ALONG SAID PROPERTY, N 33°22'45" W, A DISTANCE OF 265.59' TO A PROPERTY CORNER; THENCE TURNING AND CONTINUING ALONG SAID PROPERTY, N 32°56'49" E, A DISTANCE OF 1,021.08' TO A PROPERTY CORNER LOCATED ON THE RIGHT-OF-WAY OF NEXTON PARKWAY; SAID POINT BEING THE POINT OF BEGINNING AND CONTAINING APPROXIMATELY 1,743,765 SQ. FT. OR 40.031 ACRES.

Joint Exh. 1-0997



VICINITY MAP (NTS)

**NOTES:**

- 1) AREA WAS DETERMINED BY THE COORDINATE METHOD.
- 2) ANYTHING SHOWN OUTSIDE THE BOUNDARY IS FOR DESCRIPTIVE PURPOSES ONLY.
- 3) THE PUBLIC RECORDS REFERENCED ON THIS PLAN ARE ONLY USED AND/OR NECESSARY TO THE ESTABLISHMENT OF THE BOUNDARY OF THIS PROPERTY. THEY ARE NOT AND DO NOT CONSTITUTE A TITLE SEARCH.
- 4) DISTANCE SHOWN HEREIN ARE HORIZONTAL DISTANCES.
- 5) NO SURVEYOR OR ENVIRONMENTAL INVESTIGATION OR SERVICES WERE PERFORMED FOR THIS PLAN. THEREFORE THIS PLAN DOES NOT REVEAL THE EXISTENCE OR NONEXISTENCE OF CONTAMINATION OR OTHER CONDITIONS WHICH MAY AFFECT THIS PROPERTY.
- 6) NORTH COORDINATE STATE PLANE COORDINATES ARE BASED ON NAD 83 (2011) WITH A CONVERSION SCALE FACTOR OF 0.999999999.
- 7) THE HORIZONTAL DISTANCE BETWEEN BENCHMARKS IS 0.000000000.
- 8) WATER AND SEWER TO BE PROVIDED BY BERKELEY COUNTY WATER & SEWER.
- 9) THE PROPERTY SHOWN HEREIN IS ZONED PD-M (PLANNED DEVELOPMENT - MED DENSITY) AND IS SUBJECT TO THE NEXTON DEVELOPMENT AGREEMENT DATED APRIL 2, 2004, AND RECORDED APRIL 21, 2004, IN BOOK 2048, PAGE 1, IN THE OFFICE OF THE REGISTER OF DEEDS FOR BERKELEY COUNTY, S.C., AND ALL SUPPLEMENTS AND AMENDMENTS THERETO INCLUDING, BUT NOT LIMITED TO, THE 1/2"=1" SCALE MAP AND RESIDENTIAL DEVELOPMENT PLAN COORDINATE WITH THE 1/2"=1" SCALE MAP TO THE NEXTON DEVELOPMENT AGREEMENT DATED MAY 3, 2004, AND RECORDED MAY 12, 2004, IN BOOK 1031, PAGE 1, IN THE OFFICE OF THE REGISTER OF DEEDS FOR BERKELEY COUNTY, S.C.
- 10) PURSUANT TO THE ABOVE DESCRIBED DEVELOPMENT AGREEMENT, AS AMENDED, THIS PROPERTY IS DESIGNATED AS CONVENTIONAL DEVELOPMENT DISTRICT.
- 11) IN AREA WHERE MORE THAN ONE ELEMENT IS OCCUPYING THE SAME SPACE, THE DRAINAGE ELEMENT SHALL HAVE PRECEDENCE.
- 12) FOR ELEMENTS THAT ARE LOCATED IN THE BROWN BUFFER, REPLACEMENT OF REQUIRED BUFFER LANDSCAPES DUE TO UTILITY MAINTENANCE SHALL BE THE RESPONSIBILITY OF NEXTON RESIDENTIAL ASSOCIATION, INC. ON ITS SUCCESSION OR ASSIGNOR UNDER THAT DECLARATION OF EASEMENTS AND MAINTENANCE COVENANT FOR NORTH OAKS PROPERTIES RECORDED AT BOOK 2048, PAGE 204. THESE REQUIRED INSIDE THE BUFFER THAT ARE GREATER THAN 1" SHALL BE REPLACED BY THE LOT OWNER AND MAINTAINED BY THE LOT OWNER. IN NO EVENT SHALL THE BUFFER BE REPLACED BY THE LOT OWNER OR MAINTAINED BY THE LOT OWNER AS A CONDITION OF THE NEXTON DEVELOPMENT AGREEMENT THAT NEED TO BE MET TO ALLOW OVERLAP IN BUFFERED AREAS AND UTILITY EASEMENTS.
- 13) TEMPORARY EASEMENTS TO BE MAINTAINED BY PROPERTY OWNER OF UNDERLYING PROPERTY UNTIL SUCH TIME AS THE PERMANENT UTILITY FACILITIES ARE CONSTRUCTED, APPROVED AND ACCEPTED BY ANOTHER PARTY.
- 14) OWNER/DEVELOPER IS: NASH - NEXTON HOLDINGS, LLC, 15777 S.W. 15TH AVENUE, SUITE 200, CHARLOTTE, NC 28227 (NAD 83 47-17007) CONTACT: BRUCE OSWALD
- 15) THE 30' BUFFER SHOWN HEREIN IS FOR CONVENTIONAL DEVELOPMENT DISTRICT WITH VEGETATION AND PLANTING MATERIALS TO BE ESTABLISHED BY THE LOT OWNER AND MAINTAINED BY THE LOT OWNER. THE 30' BUFFER SHALL BE MAINTAINED BY THE LOT OWNER. IN THE EVENT THAT PLANTING MATERIAL AND/OR MAINTENANCE THEREOF CANNOT BE MAINTAINED WITHIN THE 30' BUFFER, THE 30' BUFFER SHALL BE MAINTAINED BY THE LOT OWNER AS MEASURED FROM THE OUTSIDE EDGE OF THE UTILITY OR THE PROPERTY SUBJECT TO DEVELOPMENT. (NEXTON PD-M DEVELOPMENT PLAN, PAGE 63)
- 16) BERKELEY COUNTY'S RESPONSIBILITY IS FOR ROADWAY AND ASSOCIATED DRAINAGE (DRAIN AT THE PAVEMENT EDGE), UNDERPINS AND MAINTENANCE RESPONSIBILITIES OF ALL PAVEMENT, OPEN SPACES, COMMON AREAS, OUTSIDE STRUCTURES, PRIVATE DRAINAGE FACILITIES AND VARIATIONS IN ASSOCIATED FEATURES, ARE TRICKLES ON EACH LOT SHOWN HEREIN ARE THAT OF THE LOT OWNER UNLESS AND UNTIL THE LOT IS FURTHER SUBDIVIDED AND SUCH RESPONSIBILITY IS ASSIGNED TO A HOMEOWNERS ASSOCIATION PURSUANT TO RECORDING COVENANTS DECEASED BY THE SUBDIVISION OR ITS SUCCESSION-IN-TITLE, AS PROVIDED IN NOTE 20.
- 17) PRIVATE RIGHTS-OF-WAY, EASEMENTS, WETLANDS BUFFER AREAS, FLOOD PLAINS, BUFFER, STREET TRUCKS, COMMON AREAS AND POND OUTFALLS ON EACH LOT SHOWN HEREIN ARE TO BE MAINTAINED BY THE LOT OWNER UNLESS AND UNTIL THE LOT IS FURTHER SUBDIVIDED AND SUCH RESPONSIBILITY IS ASSIGNED TO A HOMEOWNERS ASSOCIATION PURSUANT TO RECORDING COVENANTS DECEASED BY THE SUBDIVISION OR ITS SUCCESSION-IN-TITLE, AS PROVIDED IN NOTE 20.
- 18) THIS SURVEY IS NOT VALID UNLESS ENDORSED WITH AN ORIGINAL SURVEYOR'S SEAL. THIS SURVEY HAS BEEN DONE WITHOUT THE BENEFIT OF REVIEWING A CURRENT TITLE SEARCH.

I, JONATHAN F. BURNS, A PROFESSIONAL LAND SURVEYOR IN THE STATE OF SOUTH CAROLINA, HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE SURVEY HEREIN WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF ANNUAL STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND I HAVE NOT BEEN AWARE OF ANY FACTS OR CONDITIONS THAT WOULD CAUSE ME TO BELIEVE OTHERWISE.

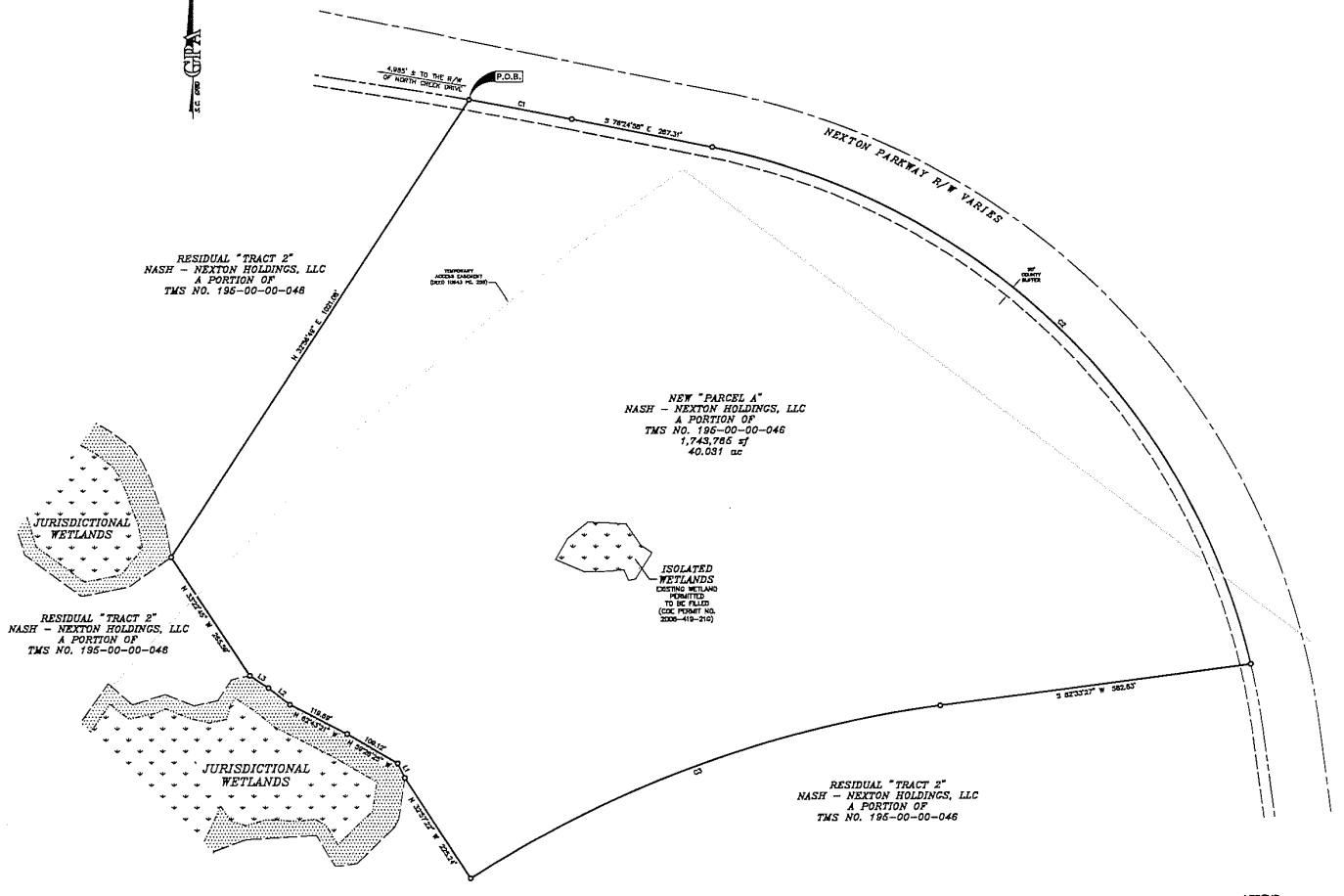
THIS SURVEY IS NOT VALID UNLESS ENDORSED WITH AN ORIGINAL SURVEYOR'S SEAL. THIS SURVEY HAS BEEN DONE WITHOUT THE BENEFIT OF REVIEWING A CURRENT TITLE SEARCH.

WITNESSED MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 28TH DAY OF JANUARY, 2016.

JONATHAN F. BURNS, PLS-22742

**REFERENCES:**

- 1) PLAT BY CPA PROFESSIONAL LAND SURVEYORS SHOWING NEXTON PARKWAY RIGHT-OF-WAY AND NEW TRACT 2A OF NEXTON, DATED MAY 31, 2017, UN-RECORDED.



| CURVE | LENGTH  | BEARING         | DELTA  | TANGENT | CURVE           | BEARING | CHORD |
|-------|---------|-----------------|--------|---------|-----------------|---------|-------|
| C1    | 134.85  | T75.00°00'00" E | 17.30° | 13.70   | T75.00°00'00" E | 134.85  |       |
| C2    | 1474.00 | T75.00°00'00" E | 17.30° | 13.70   | T75.00°00'00" E | 1474.00 |       |
| C3    | 638.00  | T75.00°00'00" E | 17.30° | 13.70   | T75.00°00'00" E | 638.00  |       |

| LINE | BEARING          | LENGTH |
|------|------------------|--------|
| L1   | N 33.75°00'00" W | 30.00  |
| L2   | N 33.75°00'00" W | 30.00  |
| L3   | N 33.75°00'00" W | 30.00  |

**CPA**  
PROFESSIONAL  
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CPA, INC.  
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AND NORTH CAROLINA

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267 WILSON ST. SUITE 100  
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**SCALE**  
1"=100'

FILE NO. \_\_\_\_\_

JOB NO. \_\_\_\_\_

DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_

CHECKED BY \_\_\_\_\_

NEW "PARCEL A" OF NEXTON  
SHOWING THE BOUNDARY OF  
NEW "PARCEL A"  
A PORTION OF  
OWNED BY NASH - NEXTON HOLDINGS, LLC  
LOCATED IN BERKELEY COUNTY, SOUTH CAROLINA

**BOUNDARY PLAT**

1  
1

1  
1

5/9/2018

Mail - GerralN@dhec.sc.gov

**Joint Exh. 1-0998**  
**MUSC Community Hospital CON- Amendments (002)**

Bacik, Sarah Elizabeth <baciks@muscd.edu>

Fri 4/13/2018 9:18 AM

To: Murdock, Margaret P. <murdockmp@dhec.sc.gov>;

Cc: Gerral, Nic <GerralN@dhec.sc.gov>;

📎 1 attachments (21 KB)

MUSC Community Hospital CON- Amendments (002).docx;

This message was sent securely by MUSC

Hi Maggie – Happy Friday! Hope you’ve had a great week. I spoke with Nic about redacting two tables that were included in our Community hospital CON with RFA data. I’ve attached the revised tables, would you mind switching those out for us? Please let me know if you have any questions.

Thanks so much!  
Sarah

-----  
This message was secured via TLS by [MUSC](#).

## MUSC Community Hospital Application: Revised Charts

## Question 11, Page 36

## Utilization

MUHA is aware of the increasing need for acute care access in Berkeley and Dorchester counties and believes the project will alleviate the concerns of patients living in the area as well as growing inpatient demands on MUHA's downtown campus. MUHA's project will increase access to acute care hospital services, specifically for patients originating from the Berkeley and Dorchester markets. A significant portion of MUHA's inpatient volume originates from zip codes within the Berkeley and Dorchester markets. In addition, many of the patient transfer requests received by MUHA originate from the local tri-county hospitals. In FY 17 MUHA had 13,243 transfer requests and 20.7% were from tri-county hospitals as displayed in **Figure 22**. This indicates that MUHA provides a level of care that is not available within the other local tri-county hospitals. All population assumptions in this CON application use MUHA's current patient population and projected population growth. The project does not assume any migration of patients from other facilities.

Total inpatient volumes from the tri-county hospitals have grown steadily over the last five calendar years showing 7% growth in adult inpatient volumes between CY12 and CY16, **Figure 12**. A vast majority of the health systems in the Tri-County have increased in inpatient volumes between CY15 and CY16.

**Figure 12:**  
**Adult Inpatient Trends for Tri-County Hospitals**

| Adult (Ages 16+) Inpatient Trend for Tri-County Hospitals |               |               |               |               |               |               |
|-----------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Hospital Name                                             | 2012          | 2013          | 2014          | 2015          | 2016          | 5-Year Change |
| MUSC                                                      | 26,479        | 26,801        | 27,028        | 26,625        | 28,184        | 6%            |
| All Other Tri-County Hospitals                            | 49,221        | 48,965        | 47,648        | 50,345        | 52,712        | 7%            |
| <b>Total</b>                                              | <b>75,700</b> | <b>75,766</b> | <b>74,676</b> | <b>76,970</b> | <b>80,896</b> | <b>7%</b>     |

Source: JARs

**Notes: Figure 13 has been redacted.**

## Question 11, Page 38

**Figure 15: Average CMI**

| Total CMI Weight by Hospital Competitors and Calendar Year |      |      |      |      |      |                 |                   |
|------------------------------------------------------------|------|------|------|------|------|-----------------|-------------------|
|                                                            | 2012 | 2013 | 2014 | 2015 | 2016 | 12-'16 Weight Δ | 12-'16 Weight % Δ |
| MUHA                                                       | 1.86 | 1.90 | 1.87 | 1.95 | 1.97 | 0.12            | 6%                |
| Average Tri-County Hospitals                               | 1.54 | 1.58 | 1.61 | 1.63 | 1.65 | 0.11            | 7%                |
| All Other SC Hospitals                                     | 1.43 | 1.46 | 1.47 | 1.48 | 1.53 | 0.10            | 7%                |

Source: RFA, summarized by region

Joint Exh. 1-1000



Patrick Cawley Article #:  
92148969009997901412242399

Shannon Cantwell Article #:  
92148969009997901412242412

Lisa Valentine Article #:  
92148969009997901412242443

Todd Gallati Article #:  
92148969009997901412242566

May 21, 2018

**VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED**

Patrick J. Cawley, MD  
Medical University Hospital Authority  
169 Ashley Avenue  
Charleston, SC 29425

**Re:** Medical University Hospital Authority d/b/a MUHA Community Hospital  
**Project:** Construction of a 128-bed general acute hospital in Berkeley County at  
a total project cost of \$325,000,000.  
**Matter No.:** 2520

Dear Dr. Cawley:

This is to notify you the South Carolina Department of Health and Environmental Control ("Department") has determined the above-referenced project to be complete for purposes of review by the Certificate of Need Program. Enclosed is an invoice for the required application fee. It may be paid by check made payable to the S.C. Department of Health and Environmental Control or by electronic check through the Department's website ([www.scdhec.gov](http://www.scdhec.gov)) using the "Pay Invoices" hyperlink at the bottom of each webpage. This is a secure website. If payment is not received within fifteen (15) days of your receipt of this invoice, the pending application will be considered withdrawn and this matter closed. Should this deadline fall on a weekend or State holiday, it will be extended to the next calendar day that is neither weekend nor holiday pursuant to S.C. Regulation 61-15, Section 303.

Should the Department receive your application fee within the fifteen (15) day deadline, the Department will render a decision no earlier than thirty (30) days, but no later than one-hundred (120) days from the date notice is provided to affected persons in the State Register, unless a public hearing is held pursuant to Regulation 61-15, Section 305.

The Department has determined the relative importance of the project review criteria, pursuant to Regulation 61-15, Section 304, which will be used to review your application. The

S.C. Department of Health and Environmental Control  
2600 Bull Street, Columbia, SC 29201 (803) 898-3432 [www.scdhec.gov](http://www.scdhec.gov)  
DHEC CON 001000

ROA 005314

## Joint Exh. 1-1001

specific criteria to be used are set forth below, with the most important being listed first. All other listed criteria will be given equal importance.

- a. Compliance with the Need Outlined in the South Carolina Health Plan
- b. Community Need Documentation;
- c. Distribution (Accessibility);
- d. Ability to Complete the Project.

The above criteria are set forth in Regulation 61-15, Section 802. Should you wish to submit any additional information to the Department in support of your application, you have thirty (30) days from the receipt of this correspondence to do so.

If you have any questions, please contact me at 803-545-4492.

Sincerely,



Maggie Murdock  
Director  
Certificate of Need Program

Enclosures: Application Fee Invoice

cc: Sarah Bacik  
Liz Crum, Esq.  
Shannon Cantwell  
Ralph Barbier, Esq.  
Will Thomas, Esq.  
Lisa Valentine  
Todd Gallati

DHEC CON 001001

ROA 005315



## Invoice for Services

Invoice No.

Bureau of Financial Management / Sims/Aycock Building  
2600 Bull St, Columbia, South Carolina 29201

PC22202-6

**Invoice To:**

MUHA COMMUNITY HOSPITAL  
PATRICK J. CAWLEY, MD  
169 ASHLEY AVENUE  
CHARLESTON, SC 29425-

**Ship To:**

S.C. DHEC  
Attention: Bureau of Financial Management  
2600 Bull Street  
Columbia, South Carolina 29201

**Date:**

7/10/2018

**Terms:**

**DUE UPON RECEIPT**

**Department Name**

Planning and Programs

**Order Filled By:**

GERRALN

**Description of Services:** CERTIFICATE OF NEED APPLICATION FEE

| Qty           | Unit Description                           | Loc | Organ. | Fund   | Account | Analytical | Unit Price | Amount            |
|---------------|--------------------------------------------|-----|--------|--------|---------|------------|------------|-------------------|
| 1             | CERTIFICATE OF NEED APPLICATION FEE (2520) | 400 | 402011 | 428015 | 4486701 | 0000000    | \$7,000.00 | \$7,000.00        |
| <b>Total:</b> |                                            |     |        |        |         |            |            | <b>\$7,000.00</b> |

Payment can be made by credit card by completing the below form or by visiting [www.scdhec.com](http://www.scdhec.com) and clicking on "Invoice Payment" under the Quick Links.

\_\_\_\_\_  
Name as it appears on credit card

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
Master Card / Visa / Discover  
Type of card (circle one)

\_\_\_\_\_  
Credit card Number

\_\_\_\_\_  
Expiration Date

\_\_\_\_\_  
Signature

Note: Make checks payable to South Carolina Department of Health and Environmental Control, remit to above address to the Attention of: Bureau of Financial Management

DHEC CON 001002

ROA 005316

June 19, 2018

M. Elizabeth Crum

Via hand delivery and email

lcrum@mcnair.net  
T 803.753.3240  
F 803.933.1484

Louis W. Eubank  
Director, Certificate of Need Program  
S.C. Dept. of Health & Environmental  
Control  
301 Gervais St.  
Columbia, SC 29201

Eva C. Johnson  
Director, Facility and Service  
Coordination  
Department of Health and  
Environmental Control  
Bureau of Healthcare Planning and  
Construction  
301 Gervais Street  
Columbia, SC 20201

Re: Re: Tri-county service area in the *2017-2018 South Carolina Health Plan*  
(SHP)

Dear Mr. Eubank and Ms. Johnson:

The SHP, as have numerous prior state health plans, calculates general hospital bed need (Bed Need) based on the Tri-county service area population, comprised of Berkeley, Charleston and Dorchester Counties, as a single unit and not based on the population unique to each of the three (3) counties. The following are provisions of the SHP applicable to Bed Need and MUHA's decision to apply thereunder to build a 128 bed community hospital in Berkeley County utilizing a portion of the 147 Bed Need shown in the SHP for MUHA.

- The need for hospital beds is based on the utilization of individual facilities and MUHA has a Bed Need of 147 in the SHP. 2018 SHP, NEED FOR HEALTH CARE FACILITIES AND HEALTH SERVICES, pp. 4 and 27.

McNAIR LAW FIRM, P.A.  
1221 Main Street  
Suite 1600  
Columbia, SC 29201

Mailing Address  
Post Office Box 11390  
Columbia, SC 29211

mcnair.net

## Joint Exh. 1-1004

Louis W. Eubank  
Eva C. Johnson  
June 19, 2018  
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ATTORNEYS

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- The SHP established services areas for Health Care Facilities and Health Services and the service areas may be comprised of one or more counties. *Id.*, SERVICE AREAS, p. 5.
  - “Calculations of hospital bed need are made for individual hospitals and totaled by county to determine the overall bed need for that service area, which is the county for CON purposes.” *Id.*, CERTIFICATE OF NEED PROJECTION AND STANDARDS, ¶ 1, p. 9.
  - “A facility may apply to create a new additional hospital at a different site within the same service area through the transfer of existing licensed beds, the projected bed need for the facility, ... The facility is not required to have a projected need for additional beds in order to create a new additional hospital. ...” *Id.*, Standard ¶ 5 (¶ 5), p. 10.
  - “The Hospital Bed Need Chart is located at the end of this Chapter.” *Id.*, p. 12.
  - The hospital Bed Need Chart is entitled “General Bed Need (Chapter 3)” and lists hospital—“Facility by Region and County”. MUSC is listed under “Facility by Region and County” as “Berkeley/Charleston/Dorchester County Total”.<sup>1</sup> “County” is referred to in *the singular* and not *plural* so that for the Bed Need chart, the Tri-county area is referred to as a single county. *Id.*, p. 27.

MUHA has applied, pursuant to ¶ 5, to transfer 128 beds from MUHA’s Bed Need to a community hospital to be located in Berkeley County. Based upon the Department’s historic treatment, both in the various state health plans using a Bed Need calculated on the Tri-county area and the Department’s application of the Tri-county Bed Need to CON applications allowing a projected hospital Bed Need or existing beds to be transferred from hospitals located in Charleston County to create hospitals in Berkeley and Dorchester counties, clearly the “county” for Bed Need is the Tri-County.

Since at least October 15, 2004, the Bed Need for Berkeley, Charleston and Dorchester has been calculated based on the entire population of the Tri-county area, not just percentages allocated by county. *2004-2005 South Carolina Health Plan*, p. II-17.<sup>2</sup> Thus, the services area for Bed Need has been calculated for the three county area population as a unit (as if it is a single county) and utilized by the provider community and the Department alike in making CON decisions regarding Bed Need and new hospital locations or hospital bed additions.

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<sup>1</sup> The Regional Medical Center of Orangeburg & Calhoun Counties is treated identically (“Orangeburg/Calhoun County Total”), *Id.*, p. 27.

<sup>2</sup> We assume that the Department has copies of the older state health plans. If not, we will be happy to provide copies of the relevant pages of each referenced state health plan.

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The CON application for the 50 bed Trident/Berkeley Medical Center (TBMC) was filed under the 2004-2005 South Carolina Health Plan (2004 SHP). The 2004 SHP "FY 2010 Hospital Need" chart lists hospitals under the heading "Facility/County". Instead of breaking out the need in individual counties as the plan does for all other counties in the state,<sup>3</sup> the Bed Need calculation/planning area is composed of the three counties as a single unit, denominated as "Berkeley/Charleston/Dorchester Cos". 2004 SHP, p. II-17. As TBMC stated in its application, "[t]he Berkeley-Charleston-Dorchester planning area" is in Region IV and the 2004 SHP shows a Bed Need for Trident Medical Center (Trident) located in Charleston County. Based on Trident's Bed Need, TBMC applied to build a 50 bed community hospital in Berkeley County and was approved to transfer the projected Bed Need from Trident in Charleston county to establish the 50 bed hospital in Berkeley ( note construction has not yet begun).

Several months after TBMC applied to build a 50 bed community hospital in Berkeley County, Roper-St. Francis filed a CON application to transfer 50 existing beds from its Roper Hospital facility in Charleston County to develop a community hospital in Berkeley County. The Roper-St. Francis Berkeley hospital (Roper Berkeley) application was filed under the 2008-2009 South Carolina Health Plan (2008 SHP). The "FY 2013 Hospital Bed Need" chart in the 2008 SHP lists hospitals under the heading "Facility/County", just as did the 2004 SHP. 2008 SHP, p. II-19. Again, instead of breaking out the need in individual counties as the plan does for all other counties in the state,<sup>4</sup> the Bed Need calculation/planning area for Berkeley, Charleston and Dorchester is composed of the three counties as a single unit denominated "Berkeley/Charleston/Dorchester Total". 2008 SHP, p. II-19. Just as TBMC applied for and sought to utilize Trident's projected Bed Need in Berkeley County instead of in Charleston County, Roper Berkeley applied for and sought to utilize Roper's existing hospital beds located in Charleston County and transfer them to Berkeley County to establish a community hospital.

Trident/TBMC, Roper-St. Francis/Roper Berkeley and the Department have each interpreted and applied the state health plans since at least 2004 so that Bed Need is calculated for the Tri-county area as a single unit so that either projected need for additional hospital Bed Need or existing beds can be utilized to establish a hospital in any one of the counties as if there are no county lines. While the exact verbiage of the various state health plans regarding the need for and the placement/utilization of projected Bed Need and transfer of existing beds has varied somewhat since 1984, the one thing that has remained consistent is that the Bed Need has been calculated based on the combined population of Berkeley, Charleston and Dorchester as the single area—"Tri-county".

<sup>3</sup> Note that Calhoun County is not listed at all in the inventory but the hospital in Orangeburg County is styled "Regional Medical Center Orangeburg-Calhoun." 2004 SHP, p. II-18.

<sup>4</sup> Note that Calhoun County is not listed at all in the inventory but the hospital in Orangeburg County is styled "Regional Medical Center Orangeburg-Calhoun." 2004 SHP, p. II-18.

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It is well established law in South Carolina that courts give deference to an agency's interpretation of its own regulations (in this case the SHP), unless it is arbitrary and capricious and has no rational basis. "'Courts defer to the relevant administrative agency's decisions with respect to its own regulations unless there is a compelling reason to differ.'" *South Carolina Coastal Conservation League v. South Carolina Dep't of Health & Env'tl. Control*, 363 S.C. 67, 75, 610 S.E.2d 482, 486 (2005); *see also Brown v. Bi-Lo, Inc.*, 354 S.C. 436, 440, 581 S.E.2d 836, 838 (2003) ('We recognize the Court generally gives deference to an administrative agency's interpretation of an applicable statute or its own regulation.')."*Brownlee v. South Carolina Dept. of Health and Environmental Control* 382 S.C. 129, 136, 676 S.E.2d 116.120 (2009). Interpreting and applying statutes and regulations administered by an agency is a two-step process. First, a court must determine whether the language of a statute or regulation directly speaks to the issue. If so, the court must utilize the clear meaning of the statute or regulation. *See Brown v. Bi-Lo, Inc.*, 354 S.C. 436, 440, 581 S.E.2d 836, 838 (2003). *Kiawah Dev. Partners, II v. S.C. Dep't of Health & Env'tl. Control*, 411 S.C. 16, 32, 766 S.E.2d 707, 717 (2014).

Certainly, when the SHP was adopted on June 9, 2017, it was not the intent of the Board of the Department (Board), the State Health Planning Committee (Committee) or the DHEC staff to change the historic method of calculating of Bed Need in the Tri-County as single county service area to individual counties by defining service area as "county for CON purposes". That is evident on the face of the SHP. The chart showing "General Bed Need" lists the Bed Need calculated for each individual hospital and the sum of that need by "Facility by Region and County." "Trident Medical Center & Berkeley Medical Center" are referenced together even though one is located in Charleston County and one is being built in Berkeley County. The SHP contains a footnote (10) that reads: "SC-16-19 issued 5/26/2016 for the construction of a new 50 bed acute care hospital." SHP, pp. 27-28. Additionally, the "General Bed Need" chart lists Roper Hospital with footnote 13, which reads: "SC-16-01 issued 1/6/2016 for construction of a new acute care hospital by transfer of 50 beds from Roper Hospital to the new hospital."

The "county" for MUHA, Roper-St. Francis/Roper Berkeley, and Trident/Summerville/TBMC is the total population and land area of "Berkeley/Charleston/Dorchester County" (county is used in the singular). It is in keeping with the Department's long-standing practice of interpreting the various state health plans to determine and to utilize Bed Need to treat the Tri-County area as a "county". It is a reasonable and rational interpretation for the DHEC staff to continue to interpret the SHP thusly.

'In construing statutory language, and in this case the SHP, the plan must be read as a whole and sections which are a part of the same general statutory law must be construed together and each one given effect. ... A statute should not be construed by concentrating on an isolated phrase. ... *South Carolina State Ports Authority v. Jasper County*, 368 SC 388, 398, 629 S.E. 2d 624, 629 (2006) (internal citations omitted). Additionally,

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Eva C. Johnson  
June 19, 2018  
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[h]owever plain the ordinary meaning of the words used in a statute may be, the courts will reject that meaning, when to accept it would lead to a result so plainly absurd that it could not possibly have been intended by the Legislature, or would defeat the plain legislative intention; and if possible will construe the statute so as to escape the absurdity and carry the intention into effect.

*State ex rel. McLeod v. Montgomery*, 244 S.C. 308, 136 S.E.2d 778, 782 (1964) (internal citations omitted). Reading Standard 1 in conjunction with the General Bed Need chart treating Berkeley/Charleston/Dorchester County as the single "county" unit for Bed Need calculation and utilization to be the Tri-county area not only reads the SHP General Hospital section as a whole without isolating a section, it also prevents an absurd result. If the language of Standard 1 is read to apply only to individual counties, then the SHP does not contain any Bed Need calculations for three of the fastest growing, economically booming counties in the state—namely Berkeley, Charleston and Dorchester. Clearly, the Board, Committee and staff did not intend to reach the absurd result of omitting these counties from the Bed Need calculations but intended for them to be treated as a single "county" for planning and Bed Need calculations and utilization.

Thank you for your attention to this matter. Please do not hesitate to contact me if you have any questions.

Very truly yours,

McNAIR LAW FIRM, P.A.



M. Elizabeth Crum

MEC:ns

Cc: Sarah Elizabeth Bacik  
Caroline Cotter  
Pamela A. Baker, Esquire  
Ashley C. Biggers, Esquire

DHEC CON 001007

Joint Exh. 1-1008

# DECISION

DHEC CON 001008

ROA 005322

Joint Exh. 1-1009



Patrick Cawley Article #:  
92148969009997901412347728

Shannon Cantwell Article #:  
92148969009997901412347896

Lisa Valentine Article #:  
92148969009997901412358540

Todd Gallati Article #:  
92148969009997901412358793

James Hiott Article #:  
92148969009997901412347926

July 23, 2018

**VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED**

Patrick J. Cawley, MD  
Medical University Hospital Authority  
169 Ashley Avenue  
Charleston, SC 29425

**Decision Granting Certificate of Need for:**

Construction of a 128-bed general acute hospital in Berkeley County at a total project cost of \$325,000,000.

**Applicant:** Medical University Hospital Authority d/b/a MUHA Community Hospital

**Matter No.:** 2520  
Charleston, SC

Dear Dr. Cawley:

The South Carolina Department of Health and Environmental Control (Department) has reviewed the application of Medical University Hospital Authority d/b/a MUHA Community Hospital (MUSC) for construction of a 128-bed general acute hospital in Berkeley County at a total project cost of \$325,000,000 (Project). After consideration of the entire administrative record of this matter, including documentation submitted by affected persons opposing approval of this application, the Department concludes MUSC has presented substantial evidence that the Project complies with the relevant project review criteria and with the 2017-2018 *South Carolina Health Plan*, enacted June 9, 2017 (*Plan*). Accordingly, it is the decision of the Department that a Certificate of Need be issued for this Project. This decision is based on the following findings:

**Compliance with the South Carolina Health Plan**

*Standard 1:* The *Plan* does not specify a projected need for Berkeley County alone, but the *Plan* does identify a projected need for MUSC of 147 beds.

S.C. Department of Health and Environmental Control  
7600 Bull Street, Columbia, SC 29223 | 803.734.7600 | www.dhec.sc.gov

DHEC CON 001009

ROA 005323

## Joint Exh. 1-1010

*Standard 2:* The *Plan* notes a projected bed need of 147 for MUSC.

*Standard 3:* The *Plan* does not calculate a surplus of beds or a bed need for Berkeley County. The *Plan* does indicate a surplus of beds in the area consisting of Berkeley, Charleston, and Dorchester Counties. The *Plan* indicates a need of 147 additional beds for MUSC, and MUSC is requesting approval of 128 beds at the proposed location, rather than at MUSC's existing hospital site.

*Standard 4:* This standard is not applicable because the *Plan* does not indicate a need for additional beds in the service area.

*Standard 5:* MUSC justified, through patient origin and other data, the need for a new hospital at the chosen site and the potential adverse impact of the new hospital at the chosen site on existing hospitals in the service area.

*Standard 6:* MUSC has satisfied this requirement.

*Standards 7:* This standard is not applicable.

*Standard 8:* This standard is not applicable.

*Standard 9:* This standard is not applicable.

*Standard 10:* This standard is not applicable.

*Standard 11:* This standard is not applicable.

*Standard 12:* This standard is not applicable.

The Department finds that MUSC has sufficiently complied with 3 S.C. Code Reg. 61-15, Section 802.1.

### **Community Need Documentation**

MUSC clearly identified its target population and, using population statistics consistent with those generated by the State Demographer, MUSC made reasonable projections of anticipated population changes, with assumptions and methodologies clearly outlined in the application. MUSC has sufficiently demonstrated that the proposed Project will meet an identified need and that the projected utilization of the Project is sufficient to justify its implementation.

## Joint Exh. 1-1011

The Department finds that MUSC has sufficiently complied with 3 S.C. Code Reg. 61-15, Section 802.2.

### **Distribution (Accessibility)**

The Department finds that the Project will not result in unnecessary duplication or modernization of services. In its application, MUSC included data showing that a significant percentage of its existing patients originate from areas in close proximity to the proposed location of the Project. After eliminating from its projections certain higher-acuity patients that would continue to be served at MUSC's existing location, MUSC's projected utilization of the Project includes a sufficient number of patients originating from the area in which the proposed hospital will be located to justify approval of the Project. The Department took into account the proposed utilization of two hospitals that have received CON approval but are not yet operational in Berkeley County, including Roper St. Francis Berkeley Hospital, which is currently under construction and is the closest existing or proposed hospital to the Project. The Department finds that approval of the instant application will not unnecessarily duplicate services of existing or proposed hospitals in the service area.

MUSC's application states that patients have access to MUSC by self-referral and by internal and external physician referral; that referrals derive from private physician practices, public clinics and other hospitals; and that access to the facility also comes from physicians affiliated with certain health care organizations listed by MUSC in its application. MUSC states that there are no limitations placed on admissions to the Project.

MUSC states that patients are admitted to MUHA facilities without regard to race, sex, creed or national origin. MUSC described its policy regarding indigent care and financial counseling for patients to determine whether indigent care discounts apply. MUSC states that it is committed to providing needed health care to all patients regardless of ability to pay. MUSC also submitted tables listing the percent of gross revenue and dollar amount of its historical and projected indigent care for years 2015 through 2019.

MUSC referenced its charity care and financial assistance policies as well as its historical and projected amount of indigent care to demonstrate that it has established provisions to insure that individuals in need of treatment as determined by a physician have access to the Project, regardless of ability to pay.

The Department finds that MUSC has sufficiently complied with 3 S.C. Code Reg. 61-15, Section 802.3.

## Joint Exh. 1-1012

### Ability of the Applicant to Complete the Project

MUSC demonstrated that the Project will be initiated and completed within the proposed timeframe specified in its application. MUSC further demonstrated that the financial schedules and time frames contained in the application are consistent with those usually experienced in the development of similar facilities or services.

The Department finds that MUSC has sufficiently complied with 3 S.C. Code Reg. 61-15, Section 802.14.

### Opposition

CareAlliance Health Services d/b/a Roper St. Francis Healthcare, Roper Hospital, Inc., Bon Secours-St. Francis Xavier Hospital, Inc., Roper St. Francis Berkeley Hospital, Roper Mount Pleasant Hospital, Trident Medical Center, LLC, Trident Medical Center, LLC d/b/a Summerville Medical Center, Walterboro Community Hospital, Inc. d/b/a Colleton Medical Center, and Regional Medical Center of Orangeburg & Calhoun Counties (collectively the Opposition) have opposed the Project on the grounds that the Project does not comply with the requirements under applicable South Carolina law and the *South Carolina Health Plan*. After consideration of the arguments and documentation submitted in opposition to the Project, the Department finds that the Opposition has not demonstrated sufficient grounds for denial of the Project.

### Department Findings under S.C. Code Reg. 61-15 § 501

The Department finds the requirements of S.C. Code Reg. 61-15, Section 501 are applicable to the Project, as the Project is a new institutional health service. As such, the Department makes the following findings under this Section:

1. The capital and operating costs of the proposal and their potential impact on patient charges are reasonable;
2. Superior alternatives to such services in terms of cost, efficiency, or appropriateness do not exist and the development of such alternatives is not practicable;
3. Alternatives for new construction were considered; and
4. In the absence of the Project, patients will experience serious problems in terms of costs, availability, or accessibility in obtaining care of the type proposed.

The issuance of a Certificate of Need does not constitute approval for any proposed construction, licensing, or certification changes. You should contact, as needed, the following individuals for information concerning these related issues: Bureau of Radiological Health, Ms. Susan Jenkins (803.545.0530); Division of Health Facilities Construction, Mr. William McCallum (803.545.4215); Bureau of Health Facilities Licensing, Mr. Terry English, (803.545.4458); and Bureau of Certification, Ms. Maryjo Roué (803.545. 4293).

## Joint Exh. 1-1013

A copy of the Guide to Board Review is enclosed for your convenience.

Reviewed and Written By:



Maggie Parham Murdock  
Director  
Certificate of Need Program

Approved for Release By:



Louis Eubank  
Chief, Bureau of Healthcare  
Planning and Construction

Cc: Shannon Cantwell (Certified Mail)  
Lisa Valentine (Certified Mail)  
Todd Gallati (Certified Mail)  
James O. Hiott III (Certified Mail)  
Ralph Barbier, Esquire (Email)  
William R. Thomas, Esquire (Email)  
M. Elizabeth Crum, Esquire (Email)  
Sarah Bacik (Email)  
Caroline Cotter (Email)

DHEC CON 001013

ROA 005327

## Joint Exh. 1-1014

### South Carolina Board of Health and Environmental Control

#### Guide to Board Review

##### Pursuant to S.C. Code Ann. § 44-1-60

The decision of the South Carolina Department of Health and Environmental Control (Department) becomes the final agency decision fifteen (15) calendar days after notice of the decision has been mailed to the applicant, permittee, licensee and affected persons who have requested in writing to be notified, unless a written request for final review accompanied by a filing fee in the amount of \$100 is filed with Department by the applicant, permittee, licensee or affected person.

Applicants, permittees, licensees, and affected parties are encouraged to engage in mediation or settlement discussions during the final review process.

If the Board declines in writing to schedule a final review conference, the Department's decision becomes the final agency decision and an applicant, permittee, licensee, or affected person may request a contested case hearing before the Administrative Law Court within thirty (30) calendar days after notice is mailed that the Board declined to hold a final review conference. In matters pertaining to decisions under the South Carolina Mining Act, appeals should be made to the South Carolina Mining Council.

#### I. Filing of Request for Final Review

1. A written Request for Final Review (RFR) and the required filing fee of one hundred dollars (\$100) must be received by Clerk of the Board within fifteen (15) calendar days after notice of the staff decision has been mailed to the applicant, permittee, licensee, or affected persons. If the 15<sup>th</sup> day occurs on a weekend or State holiday, the RFR must be received by the Clerk on the next working day. RFRs will not be accepted after 5:00 p.m.
2. RFRs shall be in writing and should include, at a minimum, the following information:
  - The grounds for amending, modifying, or rescinding the staff decision;
  - a statement of any significant issues or factors the Board should consider in deciding how to handle the matter;
  - the relief requested;
  - a copy of the decision for which review is requested; and
  - mailing address, email address, if applicable, and phone number(s) at which the requestor can be contacted.
3. RFRs should be filed in person or by mail at the following address:  
South Carolina Board of Health and Environmental Control  
Attention: Clerk of the Board  
2600 Bull Street  
Columbia, South Carolina 29201  
Alternatively, RFR's may be filed with the Clerk by facsimile (803-898-3393) or by electronic mail (boardclerk@dhec.sc.gov).
4. The filing fee may be paid by cash, check or credit card and must be received by the 15<sup>th</sup> day.
5. If there is any perceived discrepancy in compliance with this RFR filing procedure, the Clerk should consult with the Chairman or, if the Chairman is unavailable, the Vice-Chairman. The Chairman or the Vice-Chairman will determine whether the RFR is timely and properly filed and direct the Clerk to (1) process the RFR for consideration by the Board or (2) return the RFR and filing fee to the requestor with a cover letter explaining why the RFR was not timely or properly filed. Processing an RFR for consideration by the Board shall not be interpreted as a waiver of any claim or defense by the agency in subsequent proceedings concerning the RFR.
6. If the RFR will be processed for Board consideration, the Clerk will send an Acknowledgement of RFR to the Requestor and the applicant, permittee, or licensee, if other than the Requestor. All personal and financial identifying information will be redacted from the RFR and accompanying documentation before the RFR is released to the Board, Department staff or the public.
7. If an RFR pertains to an emergency order, the Clerk will, upon receipt, immediately provide a copy of the RFR to all Board members. The Chairman, or in his or her absence, the Vice-Chairman shall based on the circumstances, decide whether to refer the RFR to the RFR Committee for expedited review or to decline in writing to schedule a Final Review Conference. If the Chairman or Vice-Chairman determines review by the RFR Committee is appropriate, the Clerk will forward a copy of the RFR to Department staff and Office of General Counsel. A Department response and RFR Committee review will be provided on an expedited schedule defined by the Chairman or Vice-Chairman.
8. The Clerk will email the RFR to staff and Office of General Counsel and request a Department Response within eight (8) working days. Upon receipt of the Department Response, the Clerk will forward the RFR and Department Response to all Board members for review, and all Board members will confirm receipt of the RFR to the Clerk by email. If a Board member does not confirm receipt of the RFR within a twenty-four (24) hour period, the Clerk will contact the Board member and confirm receipt. If a Board member believes the RFR should be considered by the RFR Committee, he or she will

## Joint Exh. 1-1015

respond to the Clerk's email within forty-eight (48) hours and will request further review. If no Board member requests further review of the RFR within the forty-eight (48) hour period, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Final Review Conference. Contested case guidance will be included within the letter.

*NOTE: If the time periods described above end on a weekend or State holiday, the time is automatically extended to 5:00 p.m. on the next business day.*

9. If the RFR is to be considered by the RFR Committee, the Clerk will notify the Presiding Member of the RFR Committee and the Chairman that further review is requested by the Board. RFR Committee meetings are open to the public and will be public noticed at least 24 hours in advance.
10. Following RFR Committee or Board consideration of the RFR, if it is determined no Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, stating the Board will not hold a Conference. Contested case guidance will be included within the letter.

### II. Final Review Conference Scheduling

1. If a Conference will be held, the Clerk will send a letter by certified mail to the Requestor, with copy by regular mail to the applicant, permittee, or licensee, if not the Requestor, informing the Requestor of the determination.
2. The Clerk will request Department staff provide the Administrative Record.
3. The Clerk will send Notice of Final Review Conference to the parties at least ten (10) days before the Conference. The Conference will be publically noticed and should:
  - include the place, date and time of the Conference;
  - state the presentation times allowed in the Conference;
  - state evidence may be presented at the Conference;
  - if the conference will be held by committee, include a copy of the Chairman's order appointing the committee; and
  - inform the Requestor of his or her right to request a transcript of the proceedings of the Conference prepared at Requestor's expense.
4. If a party requests a transcript of the proceedings of the Conference and agrees to pay all related costs in writing, including costs for the transcript, the Clerk will schedule a court reporter for the Conference.

### III. Final Review Conference and Decision

1. The order of presentation in the Conference will, subject to the presiding officer's discretion, be as follows:
  - Department staff will provide an overview of the staff decision and the applicable law to include [10 minutes]:
    - Type of decision (permit, enforcement, etc.) and description of the program.
    - Parties
    - Description of facility/site
    - Applicable statutes and regulations
    - Decision and materials relied upon in the administrative record to support the staff decision.
  - Requestor(s) will state the reasons for protesting the staff decision and may provide evidence to support amending, modifying, or rescinding the staff decision. [15 minutes] *NOTE: The burden of proof is on the Requestor(s)*
  - Rebuttal by Department staff [15 minutes]
  - Rebuttal by Requestor(s) [10 minutes]

Note: Times noted in brackets are for information only and are superseded by times stated in the Notice of Final Review Conference or by the presiding officer.
2. Parties may present evidence during the conference; however, the rules of evidence do not apply.
3. At any time during the conference, the officers conducting the Conference may request additional information and may question the Requestor, the staff, and anyone else providing information at the Conference.
4. The presiding officer, in his or her sole discretion, may allow additional time for presentations and may impose time limits on the Conference.
5. All Conferences are open to the public.
6. The officers may deliberate in closed session.
7. The officers may announce the decision at the conclusion of the Conference or it may be reserved for consideration.
8. The Clerk will mail the written final agency decision (FAD) to parties within 30 days after the Conference. The written decision must explain the basis for the decision and inform the parties of their right to request a contested case hearing before the Administrative Law Court or in matters pertaining to decisions under the South Carolina Mining Act, to request a hearing before the South Carolina Mining Council.. The FAD will be sent by certified mail, return receipt requested.
9. Communications may also be sent by electronic mail, in addition to the forms stated herein, when electronic mail addresses are provided to the Clerk.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.

# MISCELLANEOUS

DHEC CON 001016

ROA 005329A



## Invoice for Services

Invoice No.

Bureau of Financial Management / Sims/Aycock Building  
2600 Bull St, Columbia, South Carolina 29201

PC21259-7

**Invoice To:**

MEDICAL UNIVERSITY HOSPITAL AUTHORITY  
PATRICK J. CAWLEY, MD  
169 ASHLEY AVENUE  
CHARLESTON, SC 29425-

**Ship To:**

S.C. DHEC  
Attention: Bureau of Financial Management  
2600 Bull Street  
Columbia, South Carolina 29201

**Date:**

12/28/2017

**Terms:**

**DUE UPON RECEIPT**

**Department Name**

Planning and Programs

**Order Filled By:**

GERRALN

**Description of Services:** CERTIFICATE OF NEED FILING FEE

| Qty           | Unit Description                         | Loc | Organ. | Fund   | Account | Analytical | Unit Price | Amount   |
|---------------|------------------------------------------|-----|--------|--------|---------|------------|------------|----------|
| 1             | CERTIFICATE OF NEED<br>FILING FEE (2520) | 400 | 402011 | 428015 | 4486701 | 0000000    | \$500.00   | \$500.00 |
| <b>Total:</b> |                                          |     |        |        |         |            |            | \$500.00 |

**Payment can be made by credit card by completing the below form or by visiting [www.scdhec.com](http://www.scdhec.com) and clicking on "Invoice Payment" under the Quick Links.**

\_\_\_\_\_  
Name as it appears on credit card

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Mailing Address

\_\_\_\_\_  
Master Card / Visa / Discover

\_\_\_\_\_  
Type of card (circle one)

\_\_\_\_\_  
Credit card Number

\_\_\_\_\_  
Expiration Date

\_\_\_\_\_  
Signature

Note: Make checks payable to South Carolina Department of Health and Environmental Control, remit to above address to the Attention of: Bureau of Financial Management DHEC CON 001017

**ROA 005329B**

**DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**

**NOTICE OF GENERAL PUBLIC INTEREST**

January 26, 2018

In accordance with Section 44-7-200(D), Code of Laws of South Carolina, the public is hereby notified that a Certificate of Need application has been accepted for filing and publication January 26, 2018 for the following project(s). After the application is deemed complete, affected persons will be notified that the review cycle has begun. For further information, please contact Nic Gerrald, Certificate of Need Program, 2600 Bull Street, Columbia, SC 29201 at (803) 545-3495.

**Affecting Anderson County**

**Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Anderson County at a total project cost of \$29,000.

**Affecting Beaufort County**

**Broad River Oncology, LLC d/b/a Broad River Radiation Therapy Center**

Development of a radiation therapy cancer center with a linear accelerator at a total project cost of \$12,014,596.

**Affecting Berkeley County**

**Palmetto Lowcountry Behavioral Health**

The transfer of 44 psychiatric beds and 16 substance abuse beds and the addition of 48 psychiatric beds for a total of 108 beds in a newly constructed facility at a total project cost of \$35,529,725.

**Medical University Hospital Authority d/b/a MUHA Community Hospital**

Construction of a 128-bed general acute hospital in Berkeley County at a total project cost of \$325,000,000.

**Affecting Greenville County**

**Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Greenville County at a total project cost of \$36,500.

**Upstate Affiliate Organization d/b/a GHS Greenville Memorial Hospital**

Conversion of 24 level II NICU beds to level III for a total of 36 level III NICU beds at a total project cost of \$6,530.

**Affecting Lexington County**

**Lexington Treatment Specialists, LLC**

Establishment of an outpatient substance abuse facility at a total project cost of \$114,400.

**Affecting Spartanburg County**

**Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Spartanburg County at a total project cost of \$29,000.

In accordance with Section 44-7-210(A), Code of Laws of South Carolina, and S.C. DHEC Regulation 61-15, the public and affected persons are hereby notified that for the following projects, applications have been deemed complete, and the review cycle has begun. A proposed decision will be made as early as 30 days, but no later

DHEC CON 001018

**ROA 005329C**

than 120 days, from January 26, 2018. "Affected persons" have 30 days from the above date to submit requests for a public hearing to Nic Gerrald, Certificate of Need Program, 2600 Bull Street, Columbia, S.C. 29201. If a public hearing is timely requested, the Department's decision will be made after the public hearing, but no later than 150 days from the above date. For further information call (803) 545-3495.

**Affecting Anderson County**

**Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Anderson County at a total project cost of \$29,000.

**Affecting Greenville County**

**Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Greenville County at a total project cost of \$36,500.

**Affecting Lexington County**

**Lexington Treatment Specialists, LLC**

Establishment of an outpatient substance abuse facility at a total project cost of \$114,400.

**Affecting Spartanburg County**

**Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Spartanburg County at a total project cost of \$29,000.

**DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**

**NOTICE OF GENERAL PUBLIC INTEREST**

DHEC-Bureau of Land and Waste Management, File # 58513  
NorthPointe OS Site

January 26, 2018

**NOTICE OF VOLUNTARY CLEANUP CONTRACT,  
CONTRIBUTION PROTECTION, AND COMMENT PERIOD**

PLEASE TAKE NOTICE that the South Carolina Department of Health and Environmental Control (the Department) intends to enter into a Voluntary Cleanup Contract (VCC) with NorthPointe OS, LLC and Greenville-NorthPointe Associates, LLC (the Respondents). The VCC provides that the Respondents, with DHEC's oversight, will fund and perform future response actions at the Property located in Greenville County, at 405 East Stone Avenue, Greenville, South Carolina (Site).

Future response actions addressed in the VCC include, but may not be limited to, the Respondents funding and performing a Remedial Investigation to determine the source, nature, and extent of release of hazardous substances, pollutants, or contaminants and, if necessary, a Feasibility Study to evaluate alternatives to clean-up the Site. Further, the Respondents will reimburse the Department's future costs of overseeing the work performed by the Respondents and other Department response costs pursuant to the VCC.

The VCC is subject to a thirty-day public comment period consistent with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. Section 9613, and the South Carolina Hazardous Waste Management Act (HWMA), S.C. Code Ann. Section 44-56-200 (as amended). Notice of

DHEC CON 001019

**ROA 005329D**

## 8 NOTICES

### DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

#### NOTICE OF GENERAL PUBLIC INTEREST

March 23, 2018

In accordance with Section 44-7-200(D), Code of Laws of South Carolina, the public is hereby notified that a Certificate of Need application has been accepted for filing and publication March 23, 2018 for the following project(s). After the application is deemed complete, affected persons will be notified that the review cycle has begun. For further information, please contact Nic Gerrald, Certificate of Need Program, 2600 Bull Street, Columbia, SC 29201 at (803) 545-3495.

#### **Affecting Charleston County**

##### **Medical University Hospital Authority d/b/a MUHA Ashley River Tower**

Renovation of existing space in the Ashley River Tower to add a hybrid operating room at a total project cost of \$4,269,096.

#### **Affecting Dorchester County**

##### **Trident Medical Center, LLC d/b/a Summerville Medical Center**

Addition of a 2nd robotic surgical system, the da Vinci Xi System, at a total project cost of \$2,474,384.

#### **Affecting Greenville County**

##### **St. Francis Hospital, Inc. d/b/a Bon Secours St. Francis Downtown**

Relocation and expansion of the emergency department with no increase in licensed bed capacity or services at a total project cost of \$37,583,218.

##### **UHS of Greenville, LLC d/b/a The Carolina Center for Behavioral Health**

Addition of 10 substance abuse beds for a total of 39 substance abuse beds at a total project cost of \$2,364,837.

#### **Affecting Laurens County**

##### **Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Laurens County at a total project cost of \$29,000.

#### **Affecting Oconee County**

##### **Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Oconee County at a total project cost of \$29,000.

#### **Affecting Pickens County**

##### **Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Pickens County at a total project cost of \$29,000.

#### **Affecting Union County**

##### **Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Union County at a total project cost of \$29,000.

**Affecting York County****Amisub of South Carolina, Inc. d/b/a Piedmont Medical Center**

Addition of an Electrophysiology lab and a biplane lab as well as the purchase of a CT equipment at a total project cost of \$7,062,274.

In accordance with Section 44-7-210(A), Code of Laws of South Carolina, and S.C. DHEC Regulation 61-15, the public and affected persons are hereby notified that for the following projects, applications have been deemed complete, and the review cycle has begun. A proposed decision will be made as early as 30 days, but no later than 120 days, from March 23, 2017. "Affected persons" have 30 days from the above date to submit requests for a public hearing to Nic Gerrald, Certificate of Need Program, 2600 Bull Street, Columbia, S.C. 29201. If a public hearing is timely requested, the Department's decision will be made after the public hearing, but no later than 150 days from the above date. For further information call (803) 545-3495.

**Affecting Beaufort County****South of Broad Healthcare d/b/a South of Broad Hospital**

Construction of a 20-bed acute care microhospital in Beaufort County at a total project cost of \$39,334,924.

**Affecting Berkeley County****Medical University Hospital Authority d/b/a MUHA Community Hospital**

Construction of a 128-bed general acute hospital in Berkeley County at a total project cost of \$325,000,000.

**Palmetto Lowcountry Behavioral Health**

The transfer of 44 psychiatric beds and 16 substance abuse beds and the addition of 48 psychiatric beds for a total of 108 beds in a newly constructed facility at a total project cost of \$35,529,725.

**Affecting Cherokee County****Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Cherokee County at a total project cost of \$29,000.

**Affecting Chester County****Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Chester County at a total project cost of \$29,000.

**Affecting Dorchester County****Trident Medical Center, LLC d/b/a Summerville Medical Center**

Addition of a 2nd robotic surgical system, the da Vinci Xi System, at a total project cost of \$2,474,384.

**Affecting Greenville County****UHS of Greenville, LLC d/b/a The Carolina Center for Behavioral Health**

Addition of 10 substance abuse beds for a total of 39 substance abuse beds at a total project cost of \$2,364,837.

**Affecting Lancaster County****Rebound Behavioral Health, LLC d/b/a Rebound Behavioral Health**

Addition of 21 inpatient psychiatric beds for a total of 45 inpatient psychiatric beds at a total project cost of \$50,000.

## 10 NOTICES

### **Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Lancaster County at a total project cost of \$29,000.

#### **Affecting Laurens County**

### **Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Laurens County at a total project cost of \$29,000.

#### **Affecting Oconee County**

### **Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Oconee County at a total project cost of \$29,000.

#### **Affecting Pickens County**

### **Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Pickens County at a total project cost of \$29,000.

#### **Affecting Union County**

### **Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in Union County at a total project cost of \$29,000.

#### **Affecting York County**

### **Well Care Home Health of the Upstate, Inc.**

Establishment of a Home Health Agency in York County at a total project cost of \$36,500.

## **DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**

### **NOTICE OF GENERAL PUBLIC INTEREST**

DHEC-Bureau of Land and Waste Management, File # 51084  
BASF/Shaw Industries Site

### **NOTICE OF VOLUNTARY CLEANUP CONTRACT, CONTRIBUTION PROTECTION, AND COMMENT PERIOD**

PLEASE TAKE NOTICE that the South Carolina Department of Health and Environmental Control (the Department) intends to enter into a Voluntary Cleanup Contract (VCC) with BASF Corporation (Responsible Party). The VCC provides that the Responsible Party, with DHEC's oversight, will fund and perform future response actions at the BASF/Shaw Industries facility located in Anderson County, at 441 Masters Boulevard, Anderson, South Carolina (Site).

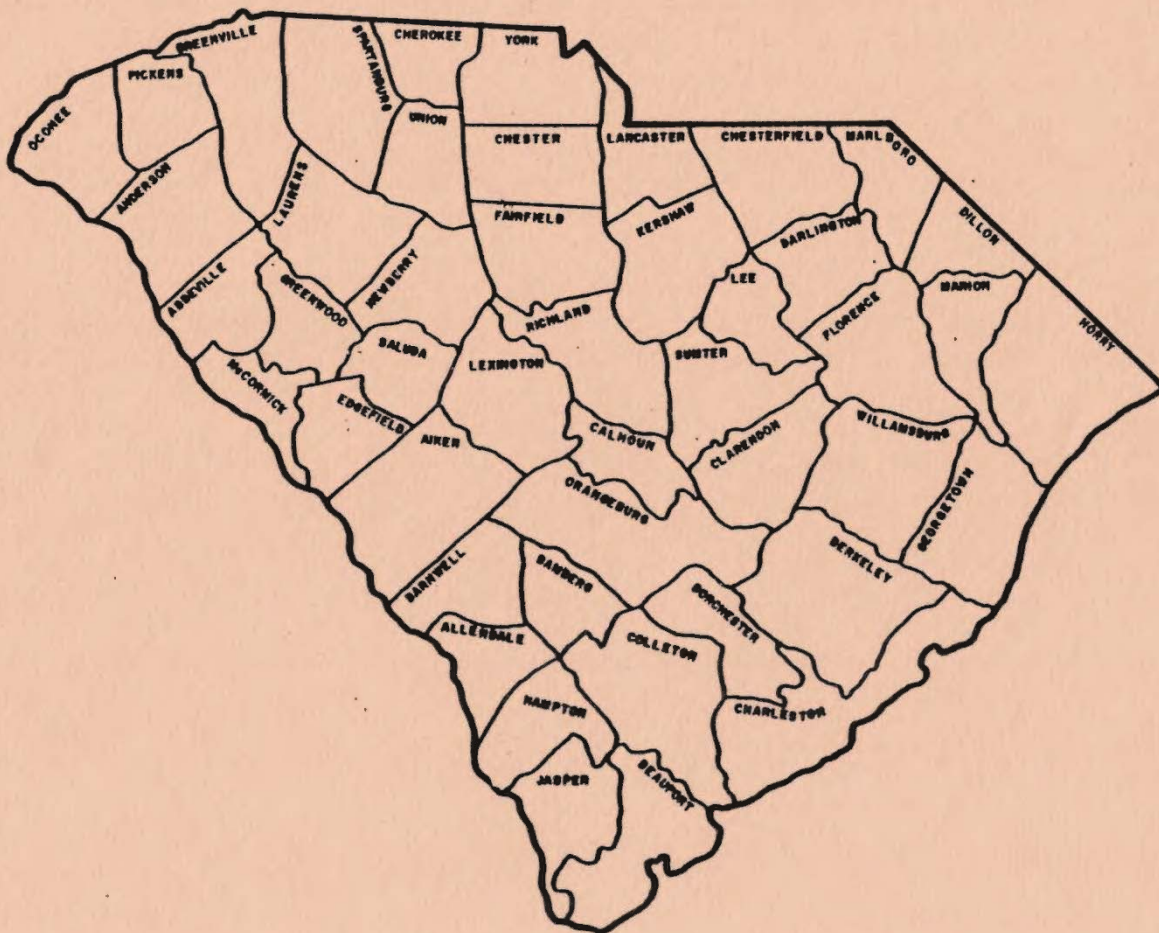
Future response actions addressed in the VCC include, but may not be limited to, the Responsible Party funding and performing: an assessment to determine the extent of volatile organic compounds within groundwater and assessment of surface water in Richland Creek; submit to the Department an Assessment Report (to include a Baseline Risk Assessment or other evaluation of risk to human health and the environment) in accordance with the schedule in the approved Work Plan; and, if necessary, a Feasibility Study to evaluate alternatives to clean-up the Site. Further, the Responsible Party will reimburse the Department's past response costs of \$10,921.13 and the Department's future costs of overseeing the work performed by the Responsible Party and other Department response costs pursuant to the VCC.

# IMPLEMENTATION

DHEC CON 001023

ROA 005329H

# 2004-2005 South Carolina Health Plan



**South Carolina State Health Planning Committee**

**South Carolina Department of Health and Environmental Control**

Effective October 15, 2004 for all but the Open Heart Surgery  
Section on page II-48, Section (5)A items 1 and 2 and the  
Ambulatory Surgery Facility Section  
The above two sections became effective on January 14, 2005

RESP-DHEC's  
TRIAL EXHIBIT  
DHEC 2

- IV     Aiken, Allendale, Bamberg, Barnwell, Beaufort, Berkeley, Calhoun, Charleston, Colleton, Dorchester, Hampton, Jasper and Orangeburg.

**D.     Estimated State Civilian Population:**

This Plan has been developed using the estimated civilian population of 4,136,020 for 2003 and projected population of 4,446,400 for 2010 where these projections were required for calculations. All population data (county, planning area, and statewide) were computed by the State Budget and Control Board, Division of Research and Statistical Services, in cooperation with the U.S. Bureau of Census. The Governor has designated the above agency as the official source of all population data to be used by state agencies.

**E.     Patient Statistics:**

Patient statistics in the Plan are based on the 2003 Fiscal Year for health care facilities.

**F.     Facility Information and Plan Cut-Off Date:**

Only those facilities reviewed under the Certificate of Need program are included in the inventory. The cut-off date for inclusion of information in this Plan was January 14, 2005.

**G.     Categories of Facilities and Services:**

**1.     General Medical Facilities and Services**

**(A)    General Hospitals**

**(1)    Definitions:**

- (a)    A "hospital" means a facility organized and administered to provide overnight medical or surgical care or nursing care of illness, injury, or infirmity and may provide obstetrical care, and in which all diagnoses, treatment, or care is administered by or under the direction of persons currently licensed to practice medicine, surgery, or osteopathy.
- (b)    "Hospital beds" means a bed for an adult or child patient. Bassinets for the newborn in a maternity unit nursery, beds in labor rooms, recovery rooms, and other beds used exclusively for emergency purposes are not included in this definition.

**(2)    Bed Capacity is as follows:**

- (a)    For existing beds, capacity is considered bed space designated exclusively for inpatient care, including space originally designed or remodeled for inpatient beds even though temporarily not used for such purposes. The number of beds counted in

any patient room is the maximum number for which adequate square footage is provided, except that single beds in single rooms have been counted even if the room contained inadequate square footage.

Adequate square footage is defined as:

100 square feet in single rooms;  
80 square feet per bed or pediatric crib in multi-bed rooms;  
40 square feet per bassinet in pediatric nurseries.

In measuring the square footage of patient rooms for the purpose of determining bed capacity, only the net usable space in the room was considered. Space in toilet rooms, washrooms, closets, vestibules, and corridors were not included.

(b) For facilities constructed under the Certificate of Need program, bed capacity will be as stated in the certificate, regardless of oversize room construction.

(c) For Areas Included:

1. Bed space in all nursing units, including: (1) intensive care unit and (2) minimal or self-care units.
2. Isolation units.
3. Pediatric units, including: (1) pediatric bassinets and (2) incubators located in the pediatric department.
4. Observation units equipped and staffed for overnight use.
5. All space designated for inpatient bed care even if currently closed or assigned to easily convertible, non-patient uses such as administration offices or storage.
6. Space in areas originally designed as solaria, waiting rooms, offices, conference rooms and classrooms that have necessary fixed equipment and are accessible to a nurses' station exclusively staffed for inpatient care.
7. Bed space under construction if planned for immediate completion (not an unfinished "shell" floor).

(d) For Areas Excluded:

1. Newborn nurseries in maternity department.
2. Labor rooms.
3. Recovery rooms.
4. Emergency units.
5. Preparation or anesthesia induction rooms.
6. Rooms used for diagnostic or treatment procedures unless originally designed for patient care.
7. Hospital staff bed areas, including accommodations for on-call staff unless originally designed for patient care.

8. Corridors.
9. Solaria, waiting rooms and such which are not permanently set aside, equipped and staffed exclusively for inpatient bed care.
10. Unfinished space (shell) {an area that is finished except for movable equipment shall not be considered unfinished space}.
11. Psychiatric, substance abuse and comprehensive rehabilitation units of general hospitals are a separate category of bed utilizing the same criteria outlined for general acute beds.

(3) Inventory:

- (a) All licensed general hospitals, as well as Federal facilities, are included in the inventory. Patient days and admissions are as reported by the hospital. The number of patient days listed for the general hospital category does not include days of care rendered in psychiatric units, substance abuse units, or comprehensive rehabilitation units of hospitals. These days of care are shown in the corresponding inventory.
- (b) Total capacity by survey refers to a total designed capacity or maximum number of beds that may be accommodated as determined by an on-site survey. This capacity may exceed the number of beds actually set up and in use. It may also differ from the licensed capacity, which is based on State laws and regulations. Beds have been classified as conforming and nonconforming according to standards of plant evaluation, such as:
  1. Fire-resistivity of each building.
  2. Fire and other safety factors of each building.
  3. Design and structural factors affecting the function of nursing units.
  4. Design and structural factors affecting the function of service departments.

(4) Narrative: General Hospital Beds

The General Acute Hospital bed need methodology is based on analyses including historical utilization; nationally recognized bed need methodologies; and consideration of the physical characteristics of hospitals in the State. Based upon these analyses, a variable occupancy rate methodology was developed, as follows:

0-174 bed hospitals, 65%;  
 175-349 bed hospitals, 70%; and  
 350+ bed hospitals, 75%.

The population and associated utilization are broken down by age groups. The use rates and projected average daily census are made for the age cohorts of 0-17, 18-64, and 65 and over, recognizing that different population groups have different hospital utilization rates. For some hospitals, different age groups were used based on the data provided by the facility.

It should be noted that, throughout the Plan where the term "hospital bed need" is specified, these figures are actually based upon demand or utilization data for the general acute hospitals. Use of these planning factors is not intended to stem initiative or to suggest that facilities cannot operate at more efficient levels than used in the calculations without additional beds.

The methodology for calculating bed needs is as follows:

- (a) Calculations of bed need are made for individual facilities.
- (b)
  1. Multiply the current facility use rate by age cohort by the projected population by age cohort (in thousands) and divide by 365 to obtain a projected average daily census by age cohort.
  2. Divide the sum of the age cohort projected facility average daily census by the variable occupancy (.65/.70/.75) to determine the number of beds needed to meet the area's need.
- (c) The number of additional beds needed or excess beds is obtained by subtracting the number of existing beds from the bed need.
- (d) Should there be a need shown for additional beds for a hospital, then an increase may be approved. In order to provide for a cost-effective addition, up to the greater of 50 beds or the actual projected number of additional beds may be approved, provided the hospital can document and demonstrate the need for additional beds.
- (e) In some areas of South Carolina, there is a considerable influx of tourists who are not counted in the permanent population. If an individual hospital in these areas can document and demonstrate the need for additional beds due to non-resident (tourist) population, and seasonal utilization fluctuations due to this population, then the Department may approve some additional beds at the existing hospital based on further analysis.
- (f) Should a hospital request additional beds due to the deletion of services at a Federal facility that results in the immediate impact on the utilization of the hospital, then additional beds may be approved at the affected hospital. The impacted hospital must document this increase in demand and explain why additional beds are needed to accommodate the care of patients previously served at a Federal facility. Based on the analysis of utilization provided by the affected hospital, the Department may approve some additional hospital beds to accommodate this immediate need.
- (g) Because of the low utilization and the low capital cost of converting hospital-based nursing home, psychiatric and/or substance abuse beds to general acute care hospital beds, the following policies may apply:

1. Hospitals that have licensed nursing home beds within the hospital may be allowed to convert these nursing home beds to acute care hospital beds only within the hospital provided the hospital can document an actual need for these additional acute care beds. This will be based on actual utilization using current information. A CON is required for this conversion.
  2. Existing general hospitals that have inpatient psychiatric, rehabilitation, or substance abuse beds may be allowed to convert these specialty beds to acute care hospital beds regardless of the projected need for general acute care hospital beds, provided a Certificate of Need is received.
- (h) Changes in the delivery system due to health care reform have resulted in the consolidation of facilities and the establishment of provider networks. These consolidations and agreements may lead to situations where affiliated hospitals may wish to transfer beds between themselves in order to serve their patients in a more efficient manner. A proposal to transfer or exchange hospital beds requires a Certificate of Need and must comply with the following criteria:
1. A transfer or exchange of beds may be approved only if there is no overall increase in the number of beds;
  2. Such transfers may cross county lines; however, the applicants must document with patient origin data the historical utilization of the receiving facility by residents of the county giving up beds;
  3. Should the response to Criterion 2. fail to show a historical precedence of residents of the county transferring the beds utilizing the receiving facility, the applicants must document why it is in the best interest of these residents to transfer the beds to a facility with no historical affinity for them;
  4. The applicants must explain the impact of transferring the beds on the health care delivery system of the county from which the beds are to be taken; any negative impacts must be detailed along with the perceived benefits of such an agreement;
  5. The facility receiving the beds must demonstrate the need for the additional capacity based on both historical and projected utilization patterns;
  6. The facility giving up the beds may not use the loss of these beds as justification for a subsequent request for the approval of additional beds;
  7. A written contract or agreement between the governing bodies of the affected facilities approving the transfer or exchange of beds must be included in the Certificate of Need application;

8. Each facility giving up beds must acknowledge in writing that this exchange is permanent; any further transfers would be subject to this same process.
- (i) Factors to be considered regarding modernization of facilities should include:
1. Functional arrangement of the facility as it relates to efficient handling of patients and related workloads.
  2. The ability to update medical technology within the existing plant.
  3. Existence of Joint Commission on Accreditation of Healthcare Organizations (JCAHO) deficiencies or "grandfathered" licensure deficiencies.
  4. Cost efficiency of the existing physical plant versus plant revision, etc.
- (j) Each modernization proposal must be evaluated on the basis of merit, cost efficiency, and impact on health delivery and status within the service area.

The following pages depict the calculation of hospital bed need as described earlier.

#### RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA

The following project review criteria are considered to be the most important in evaluating certificate of need applications for this service:

- a. Compliance with the Need Outlined in this Plan;
- b. Community Need Documentation;
- c. Distribution (Accessibility);
- d. Acceptability;
- e. Financial Feasibility;
- f. Cost Containment; and
- g. Adverse Effects on Other Facilities.

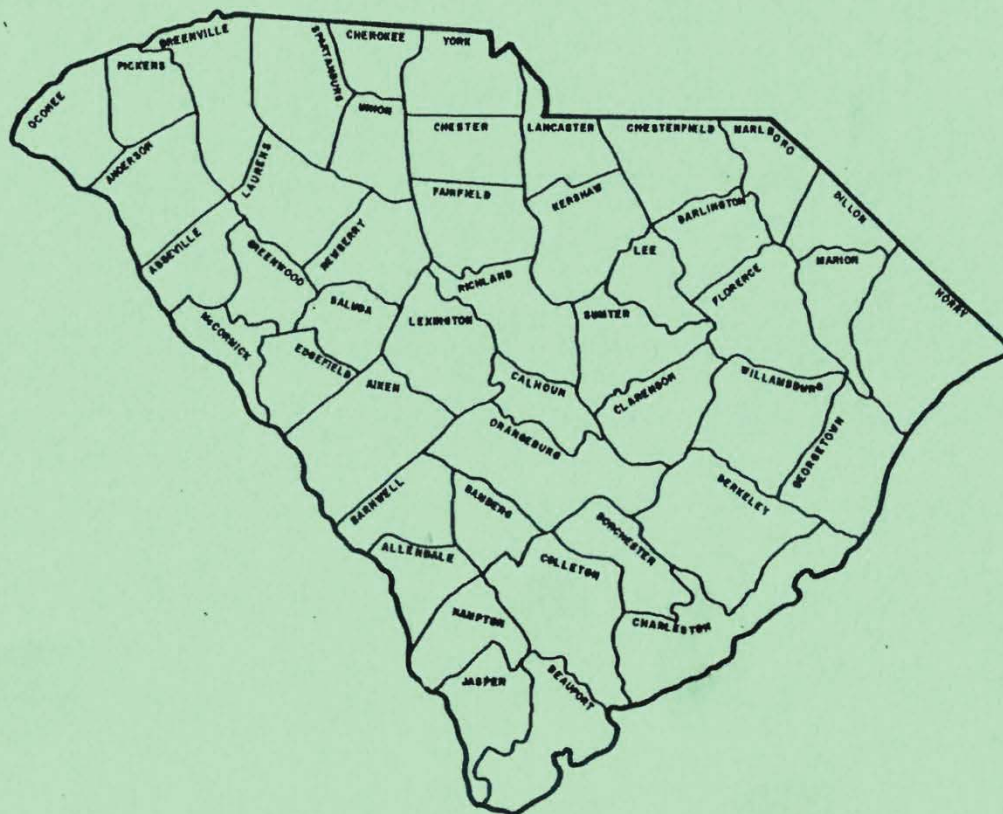
General hospital beds are located within approximately thirty (30) minutes travel time for the majority of the residents of the State and current utilization and population growth are factored into the methodology for determining general hospital beds. The benefits of improved accessibility will be equally weighted with the adverse affects of duplication in evaluating Certificate of Need applications for these beds.



South Carolina Department of Health  
and Environmental Control

# 2008-2009

## South Carolina Health Plan



South Carolina State Health Planning Committee  
South Carolina Department of Health and  
Environmental Control

Effective September 12, 2008

RESP-DHEC's  
TRIAL EXHIBIT  
DHEC 3

- IV Aiken, Allendale, Bamberg, Barnwell, Beaufort, Berkeley, Calhoun, Charleston, Colleton, Dorchester, Hampton, Jasper and Orangeburg.

D. Estimated State Civilian Population:

This Plan has been developed using the estimated civilian population of 4,263,980 for 2006 and projected population of 4,583,130 for 2013 where these projections were required for calculations. All population data (county, planning area, and statewide) were computed by the State Budget and Control Board, Division of Research and Statistical Services, in cooperation with the U.S. Bureau of Census. The Governor has designated the above agency as the official source of all population data to be used by state agencies.

E. Patient Statistics:

Patient statistics in the Plan are based on the 2006 Fiscal Year for health care facilities.

F. Facility Information and Plan Cut-Off Date:

Only those facilities reviewed under the Certificate of Need program are included in the inventory. The cut-off date for inclusion of information in this Plan was September 1, 2008.

G. Categories of Facilities and Services:

1. General Medical Facilities and Services

(A) General Hospitals

(1) Definitions:

- (a) A "hospital" means a facility organized and administered to provide overnight medical or surgical care or nursing care of illness, injury, or infirmity and may provide obstetrical care, and in which all diagnoses, treatment, or care is administered by or under the direction of persons currently licensed to practice medicine, surgery, or osteopathy.

- (b) "Hospital beds" means a bed for an adult or child patient. Bassinets for the newborn in a maternity unit nursery, beds in labor rooms, recovery rooms, and other beds used exclusively for emergency purposes are not included in this definition.

(2) Bed Capacity is as follows:

- (a) For existing beds, capacity is considered bed space designated exclusively for inpatient care, including space originally designed or remodeled for inpatient beds even though temporarily not used for such purposes. The number of beds counted in

any patient room is the maximum number for which adequate square footage is provided, except that single beds in single rooms have been counted even if the room contained inadequate square footage.

Adequate square footage is defined as:

- 100 square feet in single rooms;
- 80 square feet per bed or pediatric crib in multi-bed rooms;
- 40 square feet per bassinet in pediatric nurseries.

In measuring the square footage of patient rooms for the purpose of determining bed capacity, only the net usable space in the room was considered. Space in toilet rooms, washrooms, closets, vestibules, and corridors was not included.

(b) For facilities constructed under the Certificate of Need program, bed capacity will be as stated in the certificate, regardless of oversize room construction.

(c) For Areas Included:

1. Bed space in all nursing units, including: (1) intensive care unit and (2) minimal or self-care units.
2. Isolation units.
3. Pediatric units, including: (1) pediatric bassinets and (2) incubators located in the pediatric department.
4. Observation units equipped and staffed for overnight use.
5. All space designated for inpatient bed care even if currently closed or assigned to easily convertible, non-patient uses such as administration offices or storage.
6. Space in areas originally designed as solaria, waiting rooms, offices, conference rooms and classrooms that have necessary fixed equipment and are accessible to a nurses' station exclusively staffed for inpatient care.
7. Bed space under construction if planned for immediate completion (not an unfinished "shell" floor).

(d) For Areas Excluded:

1. Newborn nurseries in maternity department.
2. Labor rooms.
3. Recovery rooms.
4. Emergency units.
5. Preparation or anesthesia induction rooms.
6. Rooms used for diagnostic or treatment procedures unless originally designed for patient care.
7. Hospital staff bed areas, including accommodations for on-call staff unless originally designed for patient care.

8. Corridors.
9. Solaria, waiting rooms and such which are not permanently set aside, equipped and staffed exclusively for inpatient bed care.
10. Unfinished space (shell) {an area that is finished except for movable equipment shall not be considered unfinished space}.
11. Psychiatric, substance abuse and comprehensive rehabilitation units of general hospitals are a separate category of bed utilizing the same criteria outlined for general acute beds.

(3) Inventory:

- (a) All licensed general hospitals, including Federal facilities, are listed in the inventory. Patient days and admissions are as reported by the hospital. The number of patient days utilized for the general hospital bed need calculations does not include days of care rendered in licensed psychiatric units, substance abuse units, or comprehensive rehabilitation units of hospitals. These days of care are shown in the corresponding inventories for each type of service. In addition, the days of care provided in Long Term Care hospitals are not included in the general bed need calculations.
- (b) Total capacity by survey refers to a total designed capacity or maximum number of beds that may be accommodated as determined by an on-site survey. This capacity may exceed the number of beds actually set up and in use. It may also differ from the licensed capacity, which is based on State laws and regulations. Beds have been classified as conforming and nonconforming according to standards of plant evaluation, such as:
  1. Fire-resistivity of each building.
  2. Fire and other safety factors of each building.
  3. Design and structural factors affecting the function of nursing units.
  4. Design and structural factors affecting the function of service departments.

(4) Narrative: General Hospital Beds

The General Acute Hospital bed need methodology is based on analyses including historical utilization; nationally recognized bed need methodologies; and consideration of the physical characteristics of hospitals in the State. Based upon these analyses, variable occupancy rate factors were developed, as follows:

0-174 bed hospitals, 65%;  
175-349 bed hospitals, 70%; and  
350+ bed hospitals, 75%.

The population and associated utilization is broken down by age groups. The use rates and projected average daily census are made for the age cohorts of 0-17, 18-64, and 65 and over, recognizing that different population groups have different hospital utilization rates. For some hospitals, different age groups were used based on the data provided by the facility.

It should be noted that, throughout the Plan where the term "hospital bed need" is specified, these figures are actually based upon demand or utilization data for the general acute hospitals. Use of these planning factors is not intended to stem initiative or to suggest that facilities cannot operate at more efficient levels than used in the calculations without additional beds.

The methodology for calculating bed need is as follows:

- (a) Calculations of bed need are made for individual hospitals, because of the differing occupancy factors used for individual facilities, and then summed by county to get the overall county bed need.
- (b)
  - 1. Multiply the current facility use rate by age cohort by the projected population by age cohort (in thousands) and divide by 365 to obtain a projected average daily census by age cohort.
  - 2. Divide the sum of the age cohort projected facility average daily census by the variable occupancy (.65/.70/.75) to determine the number of beds needed to meet the area's need.
- (c) The number of additional beds needed or excess beds is obtained by subtracting the number of existing beds from the bed need.
- (d) If a county indicates a surplus of beds, then no additional beds will be approved unless an individual hospital in the county indicates a need for additional beds. Should an individual hospital indicate a need for additional beds, then a maximum of the actual projected bed need or up to 50 additional beds may be approved for that hospital to allow for the construction of an economical unit at either the existing hospital site or another site, if the existing hospital is relocating or has relocated in whole or in part to that site. The hospital requesting the addition must document the need for additional beds beyond those indicated as needed by the methodology stated above, based on historical and projected utilization, as well as projected population growth or other factors demonstrating the need for the proposed beds. Additional beds will only be approved for the specific hospital indicating a need.
- (e) If there is a need for additional hospital beds in the county, then any entity may apply to add these beds within the county, and any entity may be awarded the Certificate of Need for these beds. If the number of beds needed is less than 50, then up to a total of 50 beds could be approved for any entity at any location within the county. An applicant requesting additional beds beyond those indicated as needed by the

methodology stated above, must document the need for additional beds based on historical and projected utilization, floor plan layouts, projected population growth that has not been considered in this Plan or other factors demonstrating the need for the proposed beds. It is up to the applicant to document the need and the potential negative impact on the existing facilities.

(f) No additional hospitals will be approved unless they are a general hospital and will provide:

1. A 24-hour emergency services department, and meet the requirements to be a Level III emergency service as defined in Regulation 61-16 Sec. 613 Emergency Services.
2. Inpatient medical services to both surgical and non-surgical patients, and
3. Medical and surgical services on a daily basis within at least 6 of the major diagnostic categories as recognized by Centers for Medicare and Medicaid Services (CMS), as follows:

MDC 1: Diseases and disorders of the nervous system  
MDC 2: Diseases and disorders of the eye  
MDC 3: Diseases and disorders of the ear, nose, mouth and throat  
MDC 4: Diseases and disorders of the respiratory system  
MDC 5: Diseases and disorders of the circulatory system  
MDC 6: Diseases and disorders of the digestive system  
MDC 7: Diseases and disorders of the hepatobiliary system and pancreas  
MDC 8: Diseases and disorders of the musculoskeletal system and connective tissue  
MDC 9: Diseases and disorders of the skin, subcutaneous tissue and breast  
MDC 10: Endocrine, nutritional and metabolic diseases and disorders  
MDC 11: Diseases and disorders of the kidney and urinary tract  
MDC 12: Diseases and disorders of the male reproductive system  
MDC 13: Diseases and disorders of the female reproductive system  
MDC 14: Pregnancy, childbirth and the puerperium  
MDC 15: Newborns/other neonates with conditions originating in the prenatal period  
MDC 16: Diseases and disorders of the blood and blood-forming organs and immunological disorders  
MDC 17: Myeloproliferative diseases and disorders and poorly differentiated neoplasms  
MDC 18: Infectious and parasitic diseases  
MDC 19: Mental diseases and disorders  
MDC 20: Alcohol/drug use and alcohol/drug-induced organic mental disorders  
MDC 21: Injury, poisoning and toxic effects of drugs  
MDC 22: Burns

MDC 23: Factors influencing health status and other contact with health services  
MDC 24: Multiple significant traumas  
MDC 25: Human immunodeficiency virus infections

Any applicant for a new hospital must provide a written commitment that the facility will accept Medicare and Medicaid patients, and that un-reimbursed services for indigent and charity patients are provided at a percentage which meets or exceeds other hospitals in the service area.

- (g) In some areas of South Carolina, there is a considerable influx of tourists who are not counted in the permanent population. If an individual hospital in these areas can document and demonstrate the need for additional beds due to non-resident (tourist) population, and seasonal utilization fluctuations due to this population, then the Department may approve some additional beds at the existing hospital based on further analysis.
- (h) Should a hospital request additional beds due to the deletion of services at a Federal facility that results in the immediate impact on the utilization of the hospital, then additional beds may be approved at the affected hospital. The impacted hospital must document this increase in demand and explain why additional beds are needed to accommodate the care of patients previously served at a Federal facility. Based on the analysis of utilization provided by the affected hospital, the Department may approve some additional hospital beds to accommodate this immediate need.
- (i) Because of the low utilization and the low capital cost of converting hospital-based nursing home, psychiatric and/or substance abuse beds to general acute care hospital beds, the following policies may apply:
  - 1. Hospitals that have licensed nursing home beds within the hospital may be allowed to convert these nursing home beds to acute care hospital beds only within the hospital provided the hospital can document an actual need for these additional acute care beds. This will be based on actual utilization using current information. A CON is required for this conversion.
  - 2. Existing general hospitals that have inpatient psychiatric, rehabilitation, or substance abuse beds may be allowed to convert these specialty beds to acute care hospital beds regardless of the projected need for general acute care hospital beds, provided a Certificate of Need is received.
- (j) Changes in the delivery system due to health care reform have resulted in the consolidation of facilities and the establishment of provider networks. These consolidations and agreements may lead to situations where affiliated hospitals may wish to transfer beds between themselves in order to serve their patients in a more efficient manner. A proposal to transfer or exchange hospital beds requires a Certificate of Need and must comply with the following criteria:

1. A transfer or exchange of beds may be approved only if there is no overall increase in the number of beds;
  2. Such transfers may cross county lines; however, the applicants must document with patient origin data the historical utilization of the receiving facility by residents of the county giving up beds;
  3. Should the response to Criterion 2 fail to show a historical precedence of residents of the county transferring the beds utilizing the receiving facility, the applicants must document why it is in the best interest of these residents to transfer the beds to a facility with no historical affinity for them;
  4. The applicants must explain the impact of transferring the beds on the health care delivery system of the county from which the beds are to be taken; any negative impacts must be detailed along with the perceived benefits of such an agreement;
  5. The facility receiving the beds must demonstrate the need for the additional capacity based on both historical and projected utilization patterns;
  6. The facility giving up the beds may not use the loss of these beds as justification for a subsequent request for the approval of additional beds;
  7. A written contract or agreement between the governing bodies of the affected facilities approving the transfer or exchange of beds must be included in the Certificate of Need application;
  8. Each facility giving up beds must acknowledge in writing that this exchange is permanent; any further transfers would be subject to this same process.
- (k) Factors to be considered regarding modernization of facilities should include:
1. Functional arrangement of the facility as it relates to efficient handling of patients and related workloads.
  2. The ability to update medical technology within the existing plant.
  3. Existence of The Joint Commission (TJC) deficiencies or "grandfathered" licensure deficiencies.
  4. Cost efficiency of the existing physical plant versus plant revision, etc.
  5. Private rooms are now considered the industry standard.
- (l) Each modernization proposal must be evaluated on the basis of merit, cost efficiency, and impact on health delivery and status within the service area.

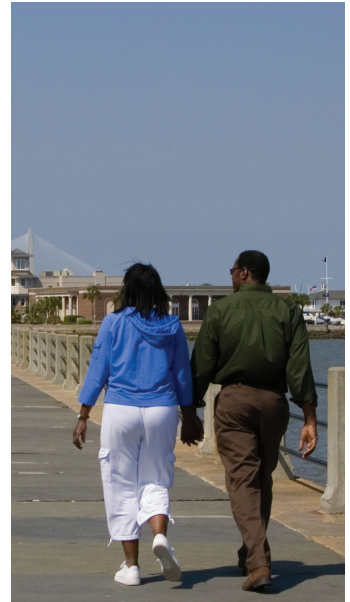
The following pages depict the calculation of hospital bed need as described earlier.

### Relative Importance of Project Review Criteria

The following project review criteria are considered to be the most important in evaluating certificate of need applications for this service:

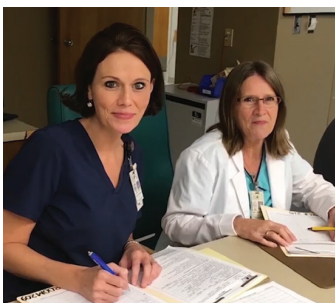
- a. Compliance with the Need Outlined in this Plan;
- b. Community Need Documentation;
- c. Distribution (Accessibility);
- d. Acceptability;
- e. Financial Feasibility;
- f. Cost Containment; and
- g. Adverse Effects on Other Facilities.

General hospital beds are located within approximately thirty (30) minutes travel time for the majority of the residents of the State and current utilization and population growth are factored into the methodology for determining general hospital beds. The benefits of improved accessibility will be equally weighed with the adverse affects of duplication in evaluating Certificate of Need applications for these beds.



# 2017–2018 South Carolina Health Plan

Enacted June 9, 2017



RESP-DHEC's  
TRIAL EXHIBIT  
DHEC 4

## **SOUTH CAROLINA HEALTH PLANNING COMMITTEE**

| <b><u>MEMBER</u></b>   | <b><u>REPRESENTING</u></b>                | <b><u>EXPIRATION</u></b> |
|------------------------|-------------------------------------------|--------------------------|
| Michael N. Bohan, M.D. | Provider                                  | 6/30/2018                |
| Bradley W. Moorhouse   | Provider                                  | 6/30/2016                |
| Parkes B. Coggins      | Provider                                  | 6/30/2019                |
| Rajeev Vasudeva, MD    | Provider                                  | 6/30/2018                |
| Mary E. Phillips       | Business (At-Large)                       | 6/30/2016                |
| Phyllis B. Buie        | Finance/Business                          | 6/30/2015                |
| Ann M. McCraw          | Finance/Business                          | 6/30/2018                |
| Sarah C. Harrell       | Finance/Business                          | 6/30/2018                |
| W.H. "Ham" Hudson      | Consumer                                  | 6/30/2015                |
| Vacant                 | Consumer                                  |                          |
| Kurt E. Moore          | Consumer                                  | 6/30/2018                |
| Steve E. Nail          | Consumer                                  | 6/30/2018                |
| L. Becky Dover. Esq    | Consumer Affairs (Ex-Officio)             |                          |
| Ann B. Kirol, DDS      | Board of Health and Environmental Control |                          |

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## CHAPTER 1

### INTRODUCTION

#### **SOUTH CAROLINA HEALTH PLAN**

The South Carolina Code of Laws requires the Department of Health and Environmental Control ("Department") to prepare a South Carolina Health Plan ("Plan"), with the advice of the Health Planning Committee, for use in the administration of the Certificate of Need Program. See [§ 44-7-180\(B\)](#).

#### **CERTIFICATE OF NEED**

The purpose of the Certificate of Need Program, as set forth in the *State Certification of Need and Health Facility Licensure Act* ("Certificate of Need Act"), is to promote cost containment, prevent unnecessary duplication of health care facilities and services, guide the establishment of health facilities and services which will best serve public needs, and ensure that high quality services are provided in health facilities in this State. To achieve these purposes, the Certificate of Need Act requires a [person](#) or [health care facility](#) to obtain a Certificate of Need from the Department before undertaking certain health care related projects. See [§§ 44-7-120 and 44-7-160](#).

#### **HEALTH PLANNING COMMITTEE**

The Health Planning Committee advises the Department in the drafting of the South Carolina Health Plan. It is comprised of fourteen members, twelve of whom are appointed by the Governor, which must include at least one member from each congressional district. One member is appointed by the chairman of the Department's Board, and by virtue of his office, the final member is either the South Carolina Consumer Advocate or his designee. Health care consumers, health care financiers (including business and insurance), and health care providers (which must include at least one administrator of a for-profit nursing home) are equally represented. The Health Planning Committee reviews the South Carolina Health Plan and submits it to the Board of Health and Environmental Control for final revision and adoption. See [§ 44-7-180](#).

#### **STATUTORY REQUIREMENTS**

In accordance with [§ 44-7-180\(B\)](#), this Plan contains (1) an *inventory* of existing health care facilities, beds, specified health services and equipment; (2) *projections of need* for additional healthcare facilities, beds, specified health services, and equipment; (3) *standards for distribution* of healthcare facilities, beds, specified health services, and equipment ("Certificate of Need Standards"); and (4) the *project review criteria* considered to be the most

important in evaluating Certificate of Need applications for each type of facility, service and equipment.

### ***(1) INVENTORY***

[Chapter 2](#) of this Plan identifies the inventory regions and service areas used in the administration of the Certificate of Need Program. Healthcare facilities, specified health services, beds and equipment are inventoried where applicable.

### ***(2) PROJECTIONS OF NEED***

Chapters 3-11 of this Plan discuss the need for additional healthcare facilities, beds, specified health services and equipment in the State. While the methodologies used to determine these needs vary depending on the type of healthcare facility, bed, specified health service, or equipment, a determination of projected need is calculated for most areas addressed by the Plan.

### ***(3) CERTIFICATE OF NEED STANDARDS***

In consultation with the Health Planning Committee, the Department formulated these standards to guide health providers throughout the State. Inclusion of these standards in the application process is designed to give applicants notice of its requirements and to elicit from them a commitment to incorporate these standards into both their applications and finished projects.

### ***(4) PROJECT REVIEW CRITERIA***

A general statement has been added to most sections of the Plan setting forth the Project Review Criteria considered to be the most important in reviewing Certificate of Need applications for each type of healthcare facility, bed, specified health service, and equipment. These criteria are not listed in order of importance, but sequentially, as they are in [Regulation 61-15](#). Where appropriate, the Plan contains a finding as to whether the benefits of improved accessibility to each such type of facility, service and equipment may outweigh the adverse effects caused by the duplication of any existing facility, service or equipment.

## **DISCLAIMERS**

- (1) The hyperlinks provided throughout this Plan were checked for accuracy immediately prior to publication. Due to factors outside our control, we cannot guarantee the links will not expire or otherwise become unavailable after publication. Should you be unable to access the hyperlinked information, please feel free to request the information from the Certificate of Need Program via e-mail to [coninfo@dhec.sc.gov](mailto:coninfo@dhec.sc.gov).

- (2) The population data set forth in this Plan was received from the South Carolina Revenue and Fiscal Affairs Office in April of 2017. The material includes population projections that are subject to the following conditions:

These projections offer only one scenario of future population change using the most current data available. The overall accuracy of the projections depends on the extent to which future events unfold in a manner that reflects previous trends observed within each group. The model cannot account for unprecedented events that may significantly alter an area's demographic composition in the future. The possible events include large factory openings or closings, changes in technology, public health crises, environmental events, or other conditions that could have an effect on migration, birth rates, or death rates. This means that population projections are likely to be more accurate in the immediate future than in distant years into the future. The projections will be updated regularly as new data becomes available and future events unfold. Annual county population estimates released by the Census Bureau will be monitored along with birth and death data released each year, and adjustments will be made to the projected population results as appropriate.

## CHAPTER 2

### INVENTORY REGIONS AND SERVICE AREAS

#### INVENTORY REGIONS

This Plan has adopted the [Department's regions](#) for the purpose of inventorying [Health Care Facilities](#) and [Health Services](#) as designated and enumerated below:

| <u>Region</u>          | <u>Counties</u>                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>I - Upstate</b>     | Abbeville, Anderson, Cherokee, Greenville, Greenwood, Laurens, McCormick, Oconee, Pickens, Spartanburg, and Union        |
| <b>II - Midlands</b>   | Aiken, Barnwell, Chester, Edgefield, Fairfield, Kershaw, Lancaster, Lexington, Newberry, Richland, Saluda and York       |
| <b>III - Pee Dee</b>   | Chesterfield, Clarendon, Darlington, Dillon, Florence, Georgetown, Horry, Lee, Marion, Marlboro, Sumter and Williamsburg |
| <b>IV - Lowcountry</b> | Allendale, Bamberg, Beaufort, Berkeley, Calhoun, Charleston, Colleton, Dorchester, Hampton, Jasper and Orangeburg        |

#### NEED FOR HEALTH CARE FACILITIES AND HEALTH SERVICES

This Plan calculates the need for certain Health Care Facilities and Health Services throughout South Carolina based on certain formula and criteria set forth in detail in this Plan. For example:

- The need for hospital beds is based on the utilization of individual facilities.
- The need for acute psychiatric services, alcohol and drug abuse services, comprehensive rehabilitation services, and residential treatment centers for children and adolescents is based on various service areas and utilization methodologies specified in this Plan.
- The need for most health services (e.g., cardiac catheterization, open heart surgery) is based upon the service standard, which is a combination of utilization criteria and travel time requirements.
- The need for long-term care and skilled nursing service is projected by county.

## **SERVICE AREAS**

In addition to inventory regions, this Plan designates service areas for certain Health Care Facilities and Health Services. These service areas may be comprised of one or more counties. Service areas may cross inventory regions. The need for a service is analyzed by assessment of existing resources and need in the relevant service area, along with other factors set forth in this Plan, applicable statutes and regulations.

## **TRANSFER BETWEEN AFFILIATED FACILITIES**

Given the ever-changing nature of the health care delivery system, affiliated facilities may want to transfer or exchange specific technologies or licensed beds in order to better meet an identified need. [Affiliated facilities](#) are two or more health care facilities, whether inpatient or outpatient, owned, leased, or who have a formal legal relationship with a central organization and whose relationship has been established for reasons other than for transferring beds, equipment or services. In certain instances such a transfer or exchange of acute services could be accomplished in a cost-effective manner and result in a more efficient allocation of health care resources. This transfer or exchange of services applies to both inpatient and outpatient services. *A Certificate of Need is required to transfer or exchange beds, services, and/or equipment.* In order to evaluate a proposal for the transfer or exchange of any health care technology reviewed under the Certificate of Need program, the following criteria must be applied to it:

1. A transfer or exchange of beds, services, and/or equipment may be approved only if there is no overall increase in the number or amount of such beds and/or services.
2. A transfer or exchange initiated under this Chapter may only occur within the service area(s) established in this Plan.
3. The facility receiving the beds, services, and/or equipment must demonstrate the need for the additional capacity based on historical and/or projected utilization patterns.
4. The applicants must explain the impact of transferring the beds, services, and/or equipment on the health care delivery system of the county and/or service area from which it is to be taken; any negative impact must be detailed, along with the perceived benefits of the proposal.
5. The facility giving up beds, services, and/or equipment may not use the loss of such beds, services, and/or equipment as justification for a subsequent request to establish or re-establish such beds, services, and/or equipment.
6. A written contract or agreement between the governing bodies of the affiliated

facilities approving the transfer or exchange of beds, services, and/or equipment must be included in the Certificate of Need process.

7. Each facility giving up beds, services, and/or equipment must acknowledge in writing that this exchange is permanent; any further transfers would be subject to this same process.

### **ESTIMATED STATE CIVILIAN POPULATION**

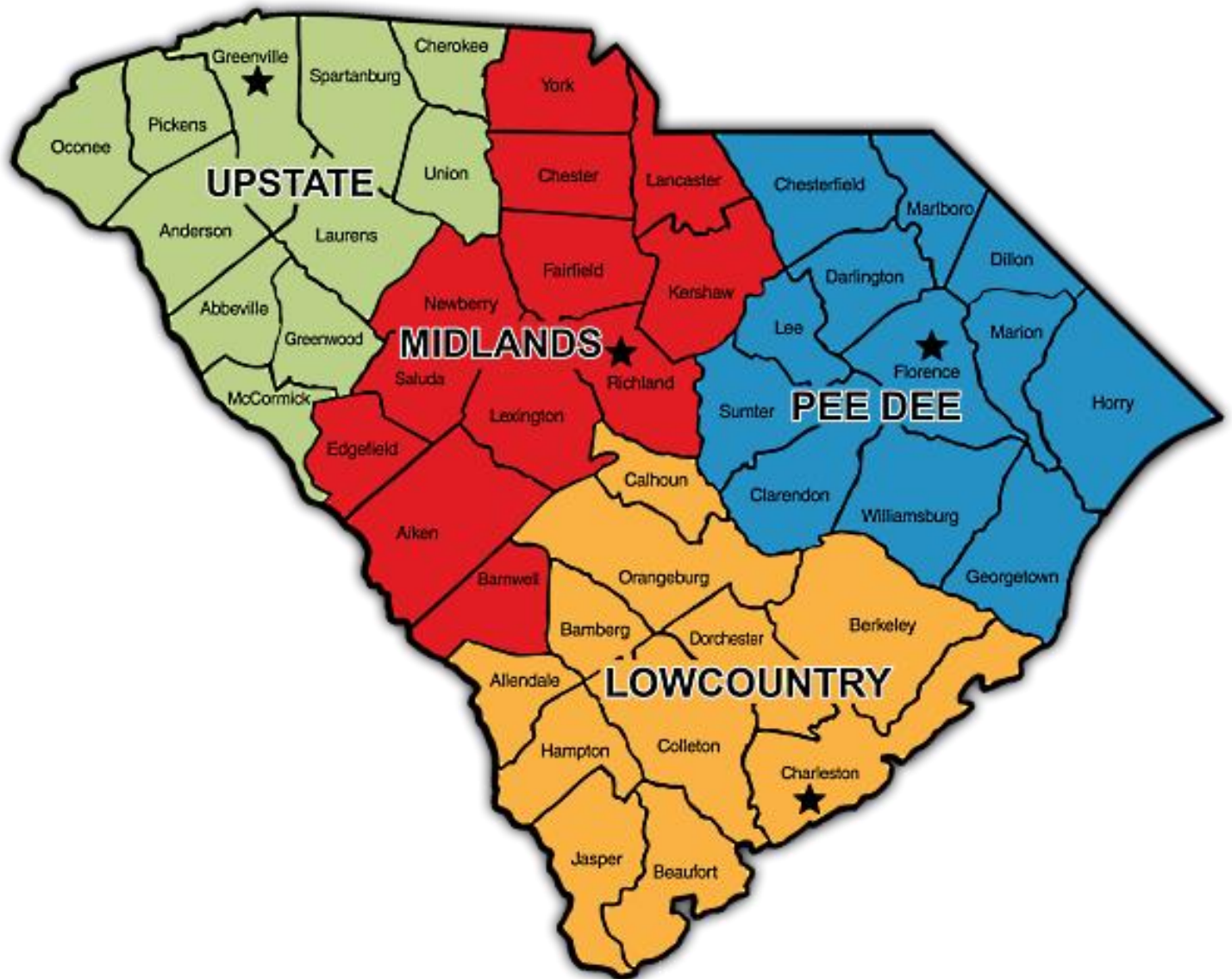
Where these projections were required for calculations, this Plan has been developed using the estimated civilian population of 4,896,146 for 2015 and projected population of 5,288,470 for 2022. All population data (county, planning area, and statewide) were provided by the South Carolina Revenue and Fiscal Affairs Office, Health and Demographics Section, in April 2017.

### **INVENTORY DATES**

Only those facilities reviewed under the Certificate of Need program are included in the inventory. The cut-off date for inclusion of information in this Plan was April 13, 2017. Inventory and utilization data set forth in this Plan is derived from the 2015 Joint Annual Reports (JARs). The period of time in which the individual data was collected is set forth by the reporting entity in its individual JAR submission.

# DHEC REGIONS MAP

(Chapter 2)



## CHAPTER 3

### GENERAL HOSPITALS

#### GENERAL HOSPITALS

##### Relevant Definitions

[“Hospital”](#) means a facility organized and administered to provide overnight medical, surgical, or nursing care of illness, injury, or infirmity and may provide obstetrical care, and in which all diagnoses, treatment, or care is administered by or under the direction of persons currently licensed to practice medicine, surgery, or osteopathy.

Hospital may include residential treatment facilities for children and adolescents in need of mental health treatment which are physically a part of a licensed psychiatric hospital. This definition does not include facilities which are licensed by the Department of Social Services.

[“Hospital Bed”](#) means a bed for an adult or child patient. Bassinets for the newborn in a maternity unit nursery, beds in labor rooms, recovery rooms, and other beds used exclusively for emergency purposes are not included in this definition.

##### Bed Capacity

For existing beds, capacity is considered bed space designated exclusively for inpatient care, including space originally designed or remodeled for inpatient beds, even though temporarily not used for such purposes. The number of beds counted in any patient room is the maximum number for which adequate square footage is provided, except that single beds in single rooms have been counted even if the room contained inadequate square footage.

##### Inventory and Bed Need

All licensed general hospitals, including Federal facilities, are listed in the inventory. Patient days and admissions are as reported by the hospital in its JAR. The number of patient days utilized for the general hospital bed need calculations does not include days of care rendered in licensed psychiatric units, substance abuse units, or comprehensive rehabilitation units of hospitals. These days of care are shown in the corresponding inventories for each type of service. In addition, the days of care provided in Long-Term Care hospitals are not included in the general bed need calculations.

Total capacity by survey refers to a total designed capacity or maximum number of beds that may be accommodated as determined by an on-site survey. This capacity may exceed the

number of beds actually set up and in use. It may also differ from the licensed capacity, which is based on State laws and regulations. Beds have been classified as conforming and nonconforming, according to standards of plant evaluation.

#### Variable Occupancy Rate

The General Acute Hospital bed need methodology uses the following variable occupancy rate factors:

0 - 174 bed hospitals → 65%  
175 - 349 bed hospitals → 70%  
350+ bed hospital → 75%

The population and associated utilization are broken down by age groups. The use rates and projected average daily census are made for the age cohorts of 0-17, 18-64, and 65 and over, in recognition that different population groups have different hospital utilization rates.

Where the term “hospital bed need” is used, these figures are based upon utilization data for the general acute hospitals. This term does not suggest that facilities cannot operate at higher occupancy rates than used in the calculations without adding additional beds.

#### Availability

Bamberg, Barnwell, Lee, Marlboro, McCormick and Saluda counties no longer have local hospitals. Calhoun County is served by the Regional Medical Center of Orangeburg and Calhoun Counties. The need for general hospital beds is determined through the consideration of current utilization and projected population growth with the goal of having beds available within approximately thirty (30) minutes’ travel time for the majority of the residents of the State.

#### **CERTIFICATE OF NEED PROJECTION AND STANDARDS**

1. Calculations of hospital bed need are made for individual hospitals and totaled by county to determine the overall bed need for that service area, which is the county for CON purposes.
2. For individual hospitals, the methodology for calculating bed need is as follows:
  - a. Determine the current facility use rate by dividing the current utilization by the current population in each of the three age cohorts.
  - b. Multiply the current facility use rate by age cohort by the projected population for seven years in the future by age cohort (in thousands) and divide by 365 to

obtain a projected average daily census by age cohort.

- c. Divide the sum of the age cohort projected facility average daily census by the variable occupancy (.65/.70/.75) to determine the number of beds needed to meet the hospital's need.
  - d. The number of additional beds needed or excess beds for the hospital is obtained by subtracting the number of existing beds from the bed need.
  - e. The totals for each hospital in a county or service area are summed to determine whether there is an overall projected surplus or need for additional beds.
3. If a service area indicates a surplus of beds, then no additional beds will be approved unless an individual hospital in the service area indicates a need for additional beds. Should an individual hospital indicate a need for additional beds, then a maximum of the actual projected bed need or up to 50 additional beds may be approved for that hospital to allow for the construction of an economical unit at either the existing hospital site or another site, if the existing hospital is relocating or has relocated in whole or in part to that site. The hospital requesting the addition must document the need for additional beds beyond those indicated as needed by the methodology stated above, based on historical and projected utilization, as well as projected population growth or other factors demonstrating the need for the proposed beds. Additional beds will only be approved for the specific hospital indicating a need.
  4. If there is a need for additional hospital beds in the service area, then any entity may apply to add these beds within the service area, and any entity may be awarded the Certificate of Need for these beds. If the number of beds needed is less than 50, then up to a total of 50 beds could be approved for any entity at any location within the service area. An applicant requesting additional beds beyond those indicated as needed by the methodology stated above must document the need for additional beds based on historical and projected utilization, projected population growth that has not been considered in this Plan or other factors demonstrating the need for the proposed beds. It is up to the applicant to document the need and the potential negative impact on the existing facilities.
  5. A facility may apply to create a new additional hospital at a different site within the same service area through the transfer of existing licensed beds, the projected bed need for the facility, or a combination of both existing beds and projected bed need. The facility is not required to have a projected need for additional beds in order to create a new additional hospital. There is no required minimum number of beds in order to approve the CON application. The applicant must justify, through patient origin and other data, the need for a new hospital at the chosen site and the potential

adverse impact a new hospital at the chosen site could have on the existing hospitals in the service area.

6. No additional hospital will be approved unless it is a general hospital and will provide:
  - a. A 24-hour emergency services department that meets the requirements to be a Level III emergency service as defined in the *Emergency Services* section of [Regulation 61-16](#);
  - b. Inpatient medical services to both surgical and non-surgical patients; and
  - c. Medical and surgical services on a daily basis within at least six of the major diagnostic categories as recognized by Centers for Medicare and Medicaid Services (CMS). Any applicant for a new hospital must provide a written commitment that the facility will accept Medicare and Medicaid patients and that unreimbursed services for indigent and charity patients are provided at a percentage that meets or exceeds other hospitals in the service area. The CMS Diagnostic Categories Chart is located in Chapter XIII of this Plan.
7. Due to the low utilization and the low capital cost of converting hospital-based nursing home, psychiatric, rehabilitation and/or substance abuse beds to general acute care hospital beds, the following policies may apply:
  - a. Hospitals that have licensed nursing home beds within the hospital may be allowed to convert nursing home beds to general acute care hospital beds only within the hospital, provided the hospital can document an actual need for additional general acute care beds. Need will be based on actual utilization, using current information. *A Certificate of Need is required for this conversion.*
  - b. Existing acute care hospitals that have inpatient psychiatric, rehabilitation, or substance abuse beds may be allowed to convert such beds to acute care hospital beds, regardless of the projected need for general acute care hospital beds. *A Certificate of Need is required for this conversion.*
8. In some areas of South Carolina, a considerable influx of tourists is not counted in the permanent population. If an individual hospital in these areas can document and demonstrate the need for additional beds due to non-resident (tourist) population and seasonal utilization fluctuations due to this population, then, based on further analysis, the Department may approve some additional beds at the existing hospital.
9. Should the deletion of services at a federal facility result in an immediate impact on the utilization of a hospital, then the Department may approve a request for additional beds at the affected hospital. The affected hospital must document the

increase in demand and explain why additional beds are needed to accommodate patients previously served at the federal facility.

10. Changes in the delivery system due to health care reform have resulted in the consolidation of facilities and the establishment of provider networks. These consolidations and agreements may lead to situations where affiliated hospitals may wish to transfer beds between themselves in order to serve their patients in a more efficient manner. *A proposal to transfer or exchange hospital beds requires a Certificate of Need* and must comply with the provisions outlined in Chapter II, Transfer between Affiliated Facilities.
11. Factors to be considered regarding modernization of facilities include:
  - a. Functional arrangement of the facility as it relates to efficient handling of patients and related workloads.
  - b. The ability to update medical technology within the existing plant.
  - c. Existence of The Joint Commission (TJC) or other accreditation body deficiencies or “grandfathered” licensure deficiencies.
  - d. Cost efficiency of the existing physical plant versus plant revision, etc.
  - e. Private rooms are now considered the industry standard.
12. Each modernization proposal must be evaluated on the basis of merit, cost efficiency, and impact on healthcare delivery within the service area.

The Hospital Bed Need Chart is located at the end of this Chapter.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Compliance with the Need Outlined in this Section of this Plan;
2. Community Need Documentation;
3. Distribution (Accessibility);
4. Acceptability;
5. Record of the Applicant;
6. Cost Containment; and
7. Adverse Effects on Other Facilities.

General hospital beds are typically located within approximately thirty (30) minutes' travel time for the majority of the residents of the State. The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for these beds.

### **LONG-TERM ACUTE CARE HOSPITALS**

Long-Term Acute Care Hospitals (LTACHs) are hospitals with an average Medicare inpatient length of stay of greater than 25 days, including all covered and non-covered days of stay of Medicare patients. They provide treatment to patients with complex medical conditions, such as strokes, cardiac care, ventilator dependency, wound care and post-surgical care.

A LTACH may be either a freestanding facility or may occupy space in another hospital ("hospital-within-a-hospital"). Hospitals must meet additional federal criteria in order to qualify as a LTACH under the "hospital-within-a-hospital" model:

1. The new LTACH must have a governing body, which is distinct and separate from the governing body of the host hospital, and the new body cannot be under the control of the host hospital or any third entity that controls both hospitals.
2. The LTACH must have a separate Chief Executive Officer through whom all administrative authority flows, who is not employed by, or under contract with, the host hospital or any third entity that controls both hospitals.
3. The LTACH must have a separate Chief Medical Officer who reports directly to the governing body and is responsible for all medical staff activities. The Chief Medical Officer cannot be under contract with the host hospital or any third entity that controls both hospitals.
4. The LTACH must have a separate medical staff which reports directly to the governing body, and adopt bylaws governing medical care, including granting privileges to individual practitioners.

### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. An application for a LTACH must be in compliance with the relevant standards in [Regulation 61-16](#) (*Minimum Standards for Licensing Hospitals and Institutional General Infirmaries*).
2. Although LTACH beds are not considered to be a separate category for licensing purposes, they will be inventoried separately from general acute care hospital beds for planning purposes.

3. The utilization of LTACHs is not included in the bed need for general acute care hospital beds. No bed need will be calculated for LTACH beds. An applicant must document the need for LTACH beds based on the utilization of existing LTACH beds.
4. A hospital that has leased general beds to a LTACH shall be entitled to regain these beds once the lease is terminated. No entity other than the hospital (or its successor) that initially leased the general acute beds to the LTACH shall be entitled to the beds upon termination of the lease. *A Certificate of Need application is required:*
  - a. A hospital may be allowed to convert these former LTACH beds to general acute hospital beds regardless of the projected need for general acute beds;
  - b. A hospital may be allowed to convert these former LTACH beds to psychiatric, inpatient treatment facility, rehabilitation, or other specialty beds only if there is a bed need projected for this proposed other category of licensed beds.
5. A hospital which seeks to be designated as a LTACH, and has been awarded a CON for that purpose, must be certified as a LTACH by CMS within 24 months of accepting its first patient, or the CON issued to that hospital for that purpose shall be revoked. The entity that has had its CON revoked shall not have the authority to operate as a general acute care hospital.
6. A hospital that desires to be designated as a Pediatric LTACH must restrict admissions to patients under the age of 21 who require long-term medical care. Should the facility attempt to provide care that is inconsistent with this requirement or patient demand or other economic conditions require the facility to close, the Certificate of Need issued to that hospital for that purpose shall be revoked.

The Long-Term Acute Care Hospitals Chart is located at the end of this Chapter.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Compliance with the Need Outlined in this Section of this Plan;
2. Community Need Documentation;
3. Distribution (Accessibility);
4. Record of the Applicant.

Long-Term Acute Care Hospital beds are located within approximately sixty (60) minutes' travel time for the majority of the residents of the State. The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating

Certificate of Need applications for these beds.

### **CRITICAL ACCESS HOSPITALS (CAH)**

The South Carolina Department of Health and Human Services administers programs through the Medicaid program to assist struggling rural hospitals. One such program designates rural hospitals as Critical Access Hospitals (CAH) who are then eligible for more favorable Medicaid reimbursement methodology.

A CAH is intended to provide essential health services to rural communities. Converting a struggling rural hospital to a CAH can allow a community to maintain local health access that would otherwise be lost. CAHs are subject to review by the Independent Payment Advisory Board (IPAB), whereas other hospitals are not currently subject to IPAB review.

The impact of the Critical Access Hospital Program in South Carolina is a financial one, allowing cost-based reimbursement from Medicare for a facility choosing to participate. The designation as a CAH does not require a change in the licensing of an existing hospital. However, a hospital may be required to de-license a number of beds in order to meet the 25-bed requirement.

The designation of a hospital as a Critical Access Hospital *does not require Certificate of Need review* because it does not change the licensing category of the facility. However, an exemption from Certificate of Need review is required for a hospital to reduce its number of licensed beds in order to meet the criteria for a CAH. *Should a hospital later desire to revert to a general acute hospital, a Certificate of Need is required*, but the facility may be permitted to increase the number of licensed hospital beds up to the prior number of beds without regard or affect to the current bed need shown in the service area.

The Critical Access Hospitals Chart is located at the end of this Chapter.

### **PERINATAL REGIONS**

The Perinatal Regions referred to in the Obstetrical Services and Neonatal Services sections below are distinct from the Department's Regions defined in Chapter II of this Plan, and are identified by the name of its designated Regional Perinatal Center.

#### **Perinatal Region**

#### **Counties**

#### **I - Greenville Memorial**

Abbeville, Anderson, Edgefield, Greenville, Greenwood, Laurens, McCormick, Oconee, Pickens, Saluda

#### **II - Spartanburg Regional**

Cherokee, Chester, Spartanburg, Union

|                                       |                                                                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>III - Palmetto Health Richland</b> | Aiken, Allendale, Bamberg, Barnwell, Calhoun, Clarendon, Fairfield, Kershaw, Lancaster, Lee, Lexington, Newberry, Orangeburg, Richland, Sumter, York |
| <b>IV - McLeod Regional</b>           | Chesterfield, Darlington, Dillon, Florence, Horry, Marion, Marlboro, Williamsburg                                                                    |
| <b>V - MUSC Medical</b>               | Beaufort, Berkeley, Charleston, Colleton, Dorchester, Hampton, Jasper, Georgetown                                                                    |

### **PERINATAL SERVICE LEVELS**

Because the cost of high-risk obstetrical and neonatal services is so great, it is not desirable or cost-effective for all hospitals in the State to provide the higher levels of care. Over the years, a regionalized approach to perinatal care has been implemented in South Carolina to address the need for high quality, risk-appropriate, cost-effective perinatal health care. Regionalization provides a coordinated system of perinatal care for a well-defined population group. Each hospital providing perinatal services is designated by the Department's Division of Health Licensing as a Level I, II, III, or IV Perinatal Hospital, or a Regional Perinatal Center (RPC). Each Level I, II, III and IV hospital maintains a relationship with its designated RPC for consultation, transport and continuing education. Patients are transferred to the appropriate RPC when medically appropriate, if beds are available. True regionalization for the optimization of perinatal care includes a stated goal of back-transporting infants when they no longer require the highest level of care. Convalescing infants benefit from a community-based program closer to home that promotes parent education and family bonding to facilitate a safe and timely discharge. In this way, quality care is provided to mothers and newborn infants, and specially trained perinatal personnel and intensive care facilities can be used efficiently and cost-effectively.

The complete descriptions of the five levels of perinatal services described briefly below are outlined in the Section of [Regulation 61-16](#) entitled *Designation of Inpatient Perinatal Care Services*.

[Basic Perinatal Center with Well Newborn Nursery \(Level I\)](#). Level I hospitals provide services for normal uncomplicated pregnancies. A full list of the requirements for a Level I Basic Perinatal Center with Well Newborn Nursery can be found at Regulation 61-16, Section 1306.A. *Certificate of Need review is not required to establish a Level I program.*

[Specialty Perinatal Center with Special Care Nursery \(Level II\)](#). In addition to the requirements of Regulation 61-16, Section 1306.A, Level II hospitals provide services for both normal and selected high-risk obstetrical and neonatal patients. A full list of the requirements for a Level II Specialty Perinatal Center can be found at Regulation 61-16, Section 1306.B. *Certificate of Need review is not required to establish a Level II program.*

[Subspecialty Perinatal Center with Neonatal Intensive Care Unit \(Level III\)](#). In addition to the requirements of Regulation 61-16, Sections 1306.A and 1306.B, Level III hospitals provide all aspects of perinatal care, including intensive care and a range of continuously available, sub-specialty consultation as recommended in the most recent edition of the *Guidelines for Perinatal Care* (GPC) by the American Academy of Pediatrics (AAP) and The American College of Obstetricians and Gynecologists. A full list of the requirements for a Level III Subspecialty Perinatal Center with Neonatal Intensive Care Unit can be found at Regulation 61-16, Section 1306.C. Neonatal transport may only be performed by Regional Perinatal Centers. *Certificate of Need Review is required to establish a Level III program.*

[Regional Perinatal Center with Neonatal Intensive Care Unit \(RPC\)](#). In addition to the requirements of Regulation 61-16, Sections 1306.A through 1306.C, RPCs provide consultative, outreach, and support services to other hospitals in the region. A full list of the requirements for a Regional Perinatal Center can be found at Regulation 61-16, Section 1306.D. No more than one Regional Perinatal Center will be approved in each perinatal region. *Certificate of Need Review is required to establish a RPC.*

[Complex Neonatal Intensive Care Unit \(Level IV\)](#). In addition to the requirements of Regulation 61-16, Sections 1306.A through 1306.C, Level IV hospitals shall include additional capabilities and considerable experience in the care of the most complex and critically ill newborn infants and have pediatric medical and surgical specialty consultants available 24 hours a day. A full list of the requirements for a Complex Neonatal Intensive Care Unit can be found at Regulation 61-16, Section 1306.E. A Level IV hospital need not act as a Regional Perinatal Center (RPC). *Certificate of Need Review is required to establish a Level IV program.*

The Perinatal-Capable Facilities Chart is located at the end of this Chapter.

## **OBSTETRICAL SERVICES**

Advances in obstetrical and newborn intensive care offer the promise of lower perinatal mortality and improvement in the quality of life for survivors. The high cost of intensive care and the limited availability of skilled personnel have created the requirement for a more efficient method of resource allocation.

Maternal, fetal, and neonatal mortality and morbidity rates can be significantly reduced if patients at high risk are identified early in the pregnancy and optimum techniques for the care of both the mother and infant are applied. High-risk deliveries are a small percent of total annual deliveries, but these patients require a high degree of specialized care. In 2015, 81.7% of all Very Low Birthweight (VLB) babies were born in either a Level III center or a Regional Perinatal Center, whereas the Healthy People 2020 national objective was 83.7%.

Infant mortality is defined as the death of babies from birth until their first birthday. South Carolina's infant mortality rate for 2015 was 7.0 infant deaths per 1,000 live births versus the national rate of 5.82 infant deaths per 1,000 births in 2014.

Neonatal mortality is the death rate for infants up to 28 days old. For 2015, South Carolina's neonatal mortality rate for all races was 4.6 neonatal deaths per 1,000 live births, while the Healthy People 2020 national objective was 4.1 neonatal deaths per 1,000 live births.

The need for obstetrical beds will be evaluated based on information supplied by the Joint Annual Report of Hospitals and other sources. Those facilities experiencing low utilization and in close proximity to one another should consider consolidating services, where appropriate.

The OB Utilization and Births Chart is located at the end of this Chapter.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered the most important in evaluating Certificate of Need applications for an obstetrical service:

1. Compliance with the Need Outlined in this Section of this Plan;
2. Distribution (Accessibility);
3. Acceptability;
4. Record of the Applicant; and
5. Adverse Effects on Other Facilities.

The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for this service.

#### **NEONATAL SERVICES**

Neonatal services are highly specialized and are only required by a very small percentage of infants. The need for these services is affected by the incidence of high-risk deliveries, the percentage of live births requiring neonatal services, and the average length of stay. The limited need for these services requires that they be planned for on a regional basis, fostering the location of these specialized units in hospitals that have the necessary staff, equipment, and consultative services and facilities. Referral networks facilitate the transfer of infants requiring this level of services from other facilities.

## **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. The projected need for neonatal intensive care bassinets is calculated on a regional basis:
  - a. For each region take the average number of births from 2013-2015 and the average population of women age 15-44 for 2013-2015 to generate an average birth rate.
  - b. Multiply the average birth rate against the projected 2019 population of women age 15-44 to project the number of births in 2019.
  - c. Generate the projected number of intensive care bassinets needed in a region by applying a constant of 3.25 bassinets per 1,000 live births to the projected birth rate and subtracting the existing bassinets from this total.
  - d. Any Level III, Level IV, or RPC neonatal unit may request additional intensive care bassinets beyond those indicated as needed by the methodology above. The Level III, Level IV, or RPC neonatal unit requesting the addition must document the need for additional intensive care bassinets based on historical and projected utilization, projected population growth, routine swing of intermediate care bassinets into the intensive care setting, or other factors demonstrating the need for the proposed bassinets.
2. Only Level III, Level IV, and RPCs neonatal units have intensive care bassinets.

The Intensive and Intermediate Bassinets Chart, Utilization of Neonatal Special Care Units Chart and NICU Bed Need Chart are located at the end of this Chapter.

*The addition of neonatal intermediate care bassinets does not require Certificate of Need review.*

In some areas the number of intensive care bassinets should be increased. The intermediate care bassinets should be better utilized in Level II facilities so babies can be transferred back closer to their home community, potentially alleviating the high utilization of the current intensive/intermediate care bassinets in RPC facilities in some areas of the State. To improve the availability of the existing RPC neonatal intensive care bassinets, utilization of the back transport concept should be supported. This component of regionalized care involves the transfer of infants who no longer require neonatal intensive care to facilities with intermediate or continuing care bassinets appropriate to the individual baby's care needs. If more back transfers to the Level II facilities occurred, then some of the overcrowding problems of the existing RPC units would be alleviated.

It should be noted that some RPC, Level III, and Level IV facilities with intensive care bassinets may at times have intermediate type infants in intensive care bassinets and vice versa as the patient load changes within the unit. RPCs may use intermediate and intensive care bassinets interchangeably as the level of care required by the neonate varies.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following criteria are considered the most important in evaluating Certificate of Need applications for a neonatal service:

1. Compliance with the Need Outlined in this Section of this Plan;
2. Distribution (Accessibility);
3. Acceptability
4. Record of the Applicant; and
5. Adverse Effects on Other Facilities.

Because neonatal services are planned and located regionally due to the small percentage of infants requiring neonatal services, this service is available within approximately 30 minutes' travel time for the majority of the population. The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for this service.

## **CMS DIAGNOSTIC CATEGORIES**

### **(Chapter 3)**

|         |                                                                                          |
|---------|------------------------------------------------------------------------------------------|
| MDC 1:  | Diseases and disorders of the nervous system                                             |
| MDC 2:  | Diseases and disorders of the eye                                                        |
| MDC 3:  | Diseases and disorders of the ear, nose, mouth and throat                                |
| MDC 4:  | Diseases and disorders of the respiratory system                                         |
| MDC 5:  | Diseases and disorders of the circulatory system                                         |
| MDC 6:  | Diseases and disorders of the digestive system                                           |
| MDC 7:  | Diseases and disorders of the hepatobiliary system and pancreas                          |
| MDC 8:  | Diseases and disorders of the musculoskeletal system and                                 |
| MDC 9:  | Diseases and disorders of the skin, subcutaneous tissue and breast                       |
| MDC 10: | Endocrine, nutritional and metabolic diseases and disorders                              |
| MDC 11: | Diseases and disorders of the kidney and urinary tract                                   |
| MDC 12: | Diseases and disorders of the male reproductive system                                   |
| MDC 13: | Diseases and disorders of the female reproductive system                                 |
| MDC 14: | Pregnancy, childbirth and the puerperium                                                 |
| MDC 15: | Newborns/other neonates with conditions originating in the                               |
| MDC 16: | Diseases and disorders of the blood and blood-forming organs and immunological disorders |
| MDC 17: | Myeloproliferative diseases and disorders and poorly differentiated                      |
| MDC 18: | Infectious and parasitic diseases                                                        |
| MDC 19: | Mental diseases and disorders                                                            |
| MDC20:  | Alcohol/drug use and alcohol/drug-induced organic mental                                 |
| MDC 21: | Injury, poisoning and toxic effects of drugs                                             |
| MDC 22: | Burns                                                                                    |
| MDC 23: | Factors influencing health status and other contact with health                          |
| MDC 24: | Multiple significant traumas                                                             |
| MDC 25: | Human immunodeficiency virus infections                                                  |

**GENERAL BED NEED\***  
**(Chapter 3)**

| Facility by Region and County                                    | Age Cat      | 2015 Pop       | 2022 Pop       | 2015 Pt Days   | Proj ADC   | Variable Rate Factor | Bed Need     | Existing Beds | To Be Added / Excess | 2015 % Occup Rate |
|------------------------------------------------------------------|--------------|----------------|----------------|----------------|------------|----------------------|--------------|---------------|----------------------|-------------------|
| <b>Region I</b>                                                  |              |                |                |                |            |                      |              |               |                      |                   |
| Abbeville Area Medical Center                                    | <18          | 5332           | 4930           | 15             | 0          |                      |              |               |                      |                   |
|                                                                  | 18-64        | 14627          | 13270          | 451            | 1          |                      |              |               |                      |                   |
|                                                                  | +65          | 4973           | 5860           | 1621           | 5          |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>24932</b>   | <b>24060</b>   | <b>2087</b>    | <b>6</b>   | <b>65%</b>           | <b>10</b>    | <b>25</b>     | <b>-15</b>           | <b>22.87%</b>     |
| <b>Abbeville County Total</b>                                    |              |                |                |                |            |                      | <b>10</b>    | <b>25</b>     | <b>-15</b>           |                   |
| AnMed Health Medical Center                                      | <18          | 45054          | 44870          | 4586           | 13         |                      |              |               |                      |                   |
|                                                                  | 18-64        | 115809         | 118750         | 32824          | 92         |                      |              |               |                      |                   |
|                                                                  | +65          | 33829          | 40780          | 41805          | 138        |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>194,692</b> | <b>204,400</b> | <b>79,215</b>  | <b>243</b> | <b>75%</b>           | <b>324</b>   | <b>423</b>    | <b>-99</b>           | <b>51.31%</b>     |
| AnMed Health Women's and Children's Hospital                     | <18          | 45054          | 44870          | 787            | 2          |                      |              |               |                      |                   |
|                                                                  | 18-64        | 115809         | 118750         | 5432           | 15         |                      |              |               |                      |                   |
|                                                                  | +65          | 33829          | 40780          | 1086           | 4          |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>194,692</b> | <b>204,400</b> | <b>7,305</b>   | <b>21</b>  | <b>65%</b>           | <b>33</b>    | <b>72</b>     | <b>-39</b>           | <b>27.80%</b>     |
| <b>Anderson County Total</b>                                     |              |                |                |                |            |                      | <b>357</b>   | <b>495</b>    | <b>-138</b>          |                   |
| Mary Black Health System - Gaffney<br>(Gaffney Medical Center) 1 | <18          | 13378          | 13070          |                | 0          |                      |              |               |                      |                   |
|                                                                  | 18-64        | 34082          | 33600          |                | 0          |                      |              |               |                      |                   |
|                                                                  | +65          | 8734           | 10260          |                | 0          |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>56,194</b>  | <b>56,930</b>  | <b>9,107</b>   | <b>25</b>  | <b>65%</b>           | <b>39</b>    | <b>125</b>    | <b>-86</b>           | <b>19.96%</b>     |
| <b>Cherokee County Total</b>                                     |              |                |                |                |            |                      | <b>39</b>    | <b>125</b>    | <b>-86</b>           |                   |
| Greenville Memorial Medical Center                               | <18          | 115082         | 122900         | 43222          | 126        |                      |              |               |                      |                   |
|                                                                  | 18-64        | 305057         | 332480         | 75796          | 226        |                      |              |               |                      |                   |
|                                                                  | +65          | 71724          | 95000          | 53186          | 193        |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>491,863</b> | <b>550,380</b> | <b>172,204</b> | <b>546</b> | <b>75%</b>           | <b>728</b>   | <b>746</b>    | <b>-18</b>           | <b>63.24%</b>     |
| Greer Memorial Hospital (GHS)                                    | <18          | 115082         | 122900         | 134            | 0          |                      |              |               |                      |                   |
|                                                                  | 18-64        | 305057         | 332480         | 6264           | 19         |                      |              |               |                      |                   |
|                                                                  | +65          | 71724          | 95000          | 4592           | 17         |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>491,863</b> | <b>550,380</b> | <b>10,990</b>  | <b>36</b>  | <b>65%</b>           | <b>56</b>    | <b>82</b>     | <b>-26</b>           | <b>36.72%</b>     |
| Hillcrest Memorial Hospital (GHS)                                | <18          | 115082         | 122900         | 6              | 0          |                      |              |               |                      |                   |
|                                                                  | 18-64        | 305057         | 332480         | 3661           | 11         |                      |              |               |                      |                   |
|                                                                  | +65          | 71724          | 95000          | 2543           | 9          |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>491,863</b> | <b>550,380</b> | <b>6,210</b>   | <b>20</b>  | <b>65%</b>           | <b>32</b>    | <b>43</b>     | <b>-11</b>           | <b>39.57%</b>     |
| Patewood Memorial Hospital (GHS)                                 | <18          | 115082         | 122900         | 1              | 0          |                      |              |               |                      |                   |
|                                                                  | 18-64        | 305057         | 332480         | 1090           | 3          |                      |              |               |                      |                   |
|                                                                  | +65          | 71724          | 95000          | 1265           | 5          |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>491,863</b> | <b>550,380</b> | <b>2,356</b>   | <b>8</b>   | <b>65%</b>           | <b>13</b>    | <b>72</b>     | <b>-59</b>           | <b>8.96%</b>      |
| Saint Francis - Downtown & Saint Francis - Millennium            | <18          | 115082         | 122900         | 47             | 0          |                      |              |               |                      |                   |
|                                                                  | 18-64        | 305057         | 332480         | 21508          | 64         |                      |              |               |                      |                   |
|                                                                  | +65          | 71724          | 95000          | 32636          | 118        |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>491,863</b> | <b>550,380</b> | <b>54,191</b>  | <b>183</b> | <b>70%</b>           | <b>262</b>   | <b>226</b>    | <b>36</b>            | <b>65.69%</b>     |
| Saint Francis - Eastside                                         | <18          | 115082         | 122900         | 87             | 0          |                      |              |               |                      |                   |
|                                                                  | 18-64        | 305057         | 332480         | 10701          | 32         |                      |              |               |                      |                   |
|                                                                  | +65          | 71724          | 95000          | 6827           | 25         |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>491,863</b> | <b>550,380</b> | <b>17,615</b>  | <b>57</b>  | <b>65%</b>           | <b>88</b>    | <b>93</b>     | <b>-5</b>            | <b>51.89%</b>     |
| <b>Greenville County Total</b>                                   |              |                |                |                |            |                      | <b>1,179</b> | <b>1,262</b>  | <b>-83</b>           |                   |
| Self Regional Healthcare                                         | <18          | 16127          | 15820          | 707            | 2          |                      |              |               |                      |                   |
|                                                                  | 18-64        | 41616          | 39630          | 26134          | 68         |                      |              |               |                      |                   |
|                                                                  | +65          | 12095          | 14010          | 27362          | 87         |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>69,838</b>  | <b>69,460</b>  | <b>54,203</b>  | <b>157</b> | <b>70%</b>           | <b>225</b>   | <b>326</b>    | <b>-101</b>          | <b>45.55%</b>     |
| <b>Greenwood County Total</b>                                    |              |                |                |                |            |                      | <b>225</b>   | <b>326</b>    | <b>-101</b>          |                   |
| Laurens County Memorial Hospital (GHS) 1                         | <18          | 14781          | 14280          | 551            | 1          |                      |              |               |                      |                   |
|                                                                  | 18-64        | 40410          | 38640          | 4703           | 12         |                      |              |               |                      |                   |
|                                                                  | +65          | 11432          | 13340          | 5500           | 18         |                      |              |               |                      |                   |
|                                                                  | <b>TOTAL</b> | <b>66,623</b>  | <b>66,260</b>  | <b>10,754</b>  | <b>31</b>  | <b>65%</b>           | <b>49</b>    | <b>76</b>     | <b>-27</b>           | <b>38.77%</b>     |

**GENERAL BED NEED\***  
(Chapter 3)

| Facility by Region and County              | Age Cat | 2015 Pop       | 2022 Pop       | 2015 Pt Days   | Proj ADC   | Variable Rate Factor | Bed Need   | Existing Beds | To Be Added / Excess | 2015 % Occup Rate |
|--------------------------------------------|---------|----------------|----------------|----------------|------------|----------------------|------------|---------------|----------------------|-------------------|
| <b>Laurens County Total</b>                |         |                |                |                |            |                      |            | 49            | 76                   | -27               |
| Oconee Memorial Hospital (GHS)             | <18     | 15209          | 14540          | 1132           | 3          |                      |            |               |                      |                   |
|                                            | 18-64   | 43859          | 42760          | 9468           | 25         |                      |            |               |                      |                   |
|                                            | +65     | 16645          | 19800          | 14267          | 46         |                      |            |               |                      |                   |
| <b>TOTAL</b>                               |         | <b>75,713</b>  | <b>77,100</b>  | <b>24,867</b>  | <b>75</b>  | <b>65%</b>           | <b>116</b> | <b>169</b>    | <b>-53</b>           | <b>40.31%</b>     |
| <b>Oconee County Total</b>                 |         |                |                |                |            |                      |            | 116           | 169                  | -53               |
| Baptist Easley Hospital                    | <18     | 23855          | 26370          |                | 0          |                      |            |               |                      |                   |
| (Palmetto Baptist Medical Center - Easley) | 18-64   | 78931          | 75000          | 6819           | 18         |                      |            |               |                      |                   |
|                                            | +65     | 18905          | 22760          | 8403           | 28         |                      |            |               |                      |                   |
| <b>TOTAL</b>                               |         | <b>121,691</b> | <b>124,130</b> | <b>15,222</b>  | <b>45</b>  | <b>65%</b>           | <b>70</b>  | <b>109</b>    | <b>-39</b>           | <b>38.26%</b>     |
| AnMed Health Cannon <b>1</b>               | <18     | 23855          | 26370          |                | 0          |                      |            |               |                      |                   |
| (Cannon Memorial Hospital)                 | 18-64   | 78931          | 75000          |                | 0          |                      |            |               |                      |                   |
|                                            | +65     | 18905          | 22760          |                | 0          |                      |            |               |                      |                   |
| <b>TOTAL</b>                               |         | <b>121,691</b> | <b>124,130</b> | <b>2,983</b>   | <b>8</b>   | <b>65%</b>           | <b>13</b>  | <b>55</b>     | <b>-42</b>           | <b>14.86%</b>     |
| <b>Pickens County Total</b>                |         |                |                |                |            |                      |            | 83            | 164                  | -81               |
| Mary Black Health System - Spartanburg     | <18     | 69835          | 71550          | 262            | 1          |                      |            |               |                      |                   |
| (Mary Black Memorial Hospital)             | 18-64   | 181834         | 187240         | 11468          | 32         |                      |            |               |                      |                   |
|                                            | +65     | 45633          | 56090          | 10472          | 35         |                      |            |               |                      |                   |
| <b>TOTAL</b>                               |         | <b>297,302</b> | <b>314,880</b> | <b>22,202</b>  | <b>68</b>  | <b>65%</b>           | <b>106</b> | <b>174</b>    | <b>-68</b>           | <b>34.96%</b>     |
| Spartanburg Medical Center                 | <18     | 69835          | 71550          | 2135           | 6          |                      |            |               |                      |                   |
|                                            | 18-64   | 181834         | 187240         | 75692          | 214        |                      |            |               |                      |                   |
|                                            | +65     | 45633          | 56090          | 64463          | 217        |                      |            |               |                      |                   |
| <b>TOTAL</b>                               |         | <b>297,302</b> | <b>314,880</b> | <b>142,290</b> | <b>437</b> | <b>75%</b>           | <b>583</b> | <b>484</b>    | <b>99</b>            | <b>80.54%</b>     |
| Pelham Medical Center (Village Hospital)   | <18     | 69835          | 71550          | 0              | 0          |                      |            |               |                      |                   |
|                                            | 18-64   | 181834         | 187240         | 4263           | 12         |                      |            |               |                      |                   |
|                                            | +65     | 45633          | 56090          | 5116           | 17         |                      |            |               |                      |                   |
| <b>TOTAL</b>                               |         | <b>297,302</b> | <b>314,880</b> | <b>9,379</b>   | <b>29</b>  | <b>65%</b>           | <b>46</b>  | <b>48</b>     | <b>-2</b>            | <b>53.53%</b>     |
| <b>Spartanburg County Total</b>            |         |                |                |                |            |                      |            | 735           | 706                  | 29                |
| Union Medical Center <b>1</b>              | <18     | 5990           | 5340           |                | 0          |                      |            |               |                      |                   |
|                                            | 18-64   | 16480          | 14740          |                | 0          |                      |            |               |                      |                   |
|                                            | +65     | 5307           | 5960           |                | 0          |                      |            |               |                      |                   |
| <b>TOTAL</b>                               |         | <b>27,777</b>  | <b>26,040</b>  | <b>6,034</b>   | <b>15</b>  | <b>65%</b>           | <b>24</b>  | <b>143</b>    | <b>-119</b>          | <b>11.56%</b>     |
| <b>Union County Total</b>                  |         |                |                |                |            |                      |            | 24            | 143                  | -119              |
| <b>Region II</b>                           |         |                |                |                |            |                      |            |               |                      |                   |
| Aiken Regional Medical Center <b>3</b>     | <18     | 36383          | 35570          | 426            | 1          |                      |            |               |                      |                   |
|                                            | 18-64   | 99461          | 99060          | 18141          | 50         |                      |            |               |                      |                   |
|                                            | +65     | 29985          | 37980          | 21129          | 73         |                      |            |               |                      |                   |
| <b>TOTAL</b>                               |         | <b>165,829</b> | <b>172,610</b> | <b>39,696</b>  | <b>124</b> | <b>70%</b>           | <b>178</b> | <b>197</b>    | <b>-19</b>           | <b>55.21%</b>     |
| <b>Aiken County Total</b>                  |         |                |                |                |            |                      |            | 197           | -19                  |                   |
| Southern Palmetto Hospital <b>4</b>        | <18     | 5,554          | 5,370          |                |            |                      |            |               |                      |                   |
| (Barnwell County Hospital)                 | 18-64   | 13,140         | 11,830         |                |            |                      |            |               |                      |                   |
|                                            | +65     | 3,425          | 3,980          |                |            |                      |            |               |                      |                   |
| <b>TOTAL</b>                               |         | <b>22,119</b>  | <b>21,180</b>  |                |            | <b>65%</b>           | <b>25</b>  | <b>0</b>      | <b>25</b>            | <b>0.00%</b>      |
| <b>Barnwell County Total</b>               |         |                |                |                |            |                      |            | 25            | 0                    | 25                |
| Chester Regional Medical Center            | <18     | 7397           | 6880           | 77             | 0          |                      |            |               |                      |                   |
|                                            | 18-64   | 19340          | 17480          | 1572           | 4          |                      |            |               |                      |                   |
|                                            | +65     | 5530           | 6510           | 1541           | 5          |                      |            |               |                      |                   |
| <b>TOTAL</b>                               |         | <b>32,267</b>  | <b>30,870</b>  | <b>3,190</b>   | <b>9</b>   | <b>65%</b>           | <b>14</b>  | <b>82</b>     | <b>-68</b>           | <b>10.66%</b>     |
| <b>Chester County Total</b>                |         |                |                |                |            |                      |            | 14            | 82                   | -68               |
| Edgefield County Hospital                  | <18     | 5036           | 4250           | 1              | 0          |                      |            |               |                      |                   |
|                                            | 18-64   | 17084          | 15940          | 123            | 0          |                      |            |               |                      |                   |
|                                            | +65     | 4394           | 5410           | 392            | 1          |                      |            |               |                      |                   |

**GENERAL BED NEED\***  
(Chapter 3)

| Facility by Region and County                       | Age Cat | 2015 Pop       | 2022 Pop       | 2015 Pt Days   | Proj ADC   | Variable Rate Factor | Bed Need   | Existing Beds | To Be Added / Excess | 2015 % Occup Rate |
|-----------------------------------------------------|---------|----------------|----------------|----------------|------------|----------------------|------------|---------------|----------------------|-------------------|
| <b>TOTAL</b>                                        |         | <b>26,514</b>  | <b>25,600</b>  | <b>516</b>     | <b>2</b>   | <b>65%</b>           | <b>3</b>   | <b>25</b>     | <b>-22</b>           | <b>5.65%</b>      |
| <b>Edgefield County Total</b>                       |         |                |                |                |            |                      |            |               | <b>-22</b>           |                   |
| Fairfield Memorial Hospital                         | <18     | 4634           | 3830           | 3              | 0          |                      |            |               |                      |                   |
|                                                     | 18-64   | 13900          | 12110          | 119            | 0          |                      |            |               |                      |                   |
|                                                     | +65     | 4213           | 5090           | 222            | 1          |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>22,747</b>  | <b>21,030</b>  | <b>344</b>     | <b>1</b>   | <b>65%</b>           | <b>2</b>   | <b>25</b>     | <b>-23</b>           | <b>3.77%</b>      |
| <b>Fairfield County Total</b>                       |         |                |                |                |            |                      |            |               | <b>-23</b>           |                   |
| Kershaw Health 2<br>(Kershaw County Medical Center) | <18     | 14,867         | 14,640         |                | 0          |                      |            |               |                      |                   |
|                                                     | 18-64   | 37,676         | 37,800         |                | 0          |                      |            |               |                      |                   |
|                                                     | +65     | 9,973          | 12,590         |                | 0          |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>62,516</b>  | <b>65,030</b>  | <b>19,001</b>  | <b>54</b>  | <b>65%</b>           | <b>84</b>  | <b>121</b>    | <b>-37</b>           | <b>43.02%</b>     |
| <b>Kershaw County Total</b>                         |         |                |                |                |            |                      |            |               | <b>-37</b>           |                   |
| Springs Memorial Hospital 1                         | <18     | 18749          | 19580          |                | 0          |                      |            |               |                      |                   |
|                                                     | 18-64   | 50359          | 55790          |                | 0          |                      |            |               |                      |                   |
|                                                     | +65     | 16734          | 24810          |                | 0          |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>85,842</b>  | <b>100,180</b> | <b>24,205</b>  | <b>77</b>  | <b>70%</b>           | <b>111</b> | <b>199</b>    | <b>-88</b>           | <b>33.32%</b>     |
| <b>Lancaster County Total</b>                       |         |                |                |                |            |                      |            |               | <b>-88</b>           |                   |
| Lexington Medical Center 5                          | <18     | 66209          | 66910          | 223            | 1          |                      |            |               |                      |                   |
|                                                     | 18-64   | 174401         | 185810         | 64183          | 187        |                      |            |               |                      |                   |
|                                                     | +65     | 41223          | 55370          | 60486          | 223        |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>281,833</b> | <b>308,090</b> | <b>124,892</b> | <b>411</b> | <b>75%</b>           | <b>548</b> | <b>485</b>    | <b>63</b>            | <b>70.55%</b>     |
| <b>Lexington County Total</b>                       |         |                |                |                |            |                      |            |               | <b>63</b>            |                   |
| Newberry County Memorial Hospital                   | <18     | 8378           | 8210           | 113            | 0          |                      |            |               |                      |                   |
|                                                     | 18-64   | 22648          | 21850          | 3004           | 8          |                      |            |               |                      |                   |
|                                                     | +65     | 6986           | 8460           | 4244           | 14         |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>38,012</b>  | <b>38,520</b>  | <b>7,361</b>   | <b>22</b>  | <b>65%</b>           | <b>35</b>  | <b>90</b>     | <b>-55</b>           | <b>22.41%</b>     |
| <b>Newberry County Total</b>                        |         |                |                |                |            |                      |            |               | <b>-55</b>           |                   |
| Palmetto Health Baptist Parkridge                   | <18     | 88453          | 96860          | 1255           | 4          |                      |            |               |                      |                   |
|                                                     | 18-64   | 271087         | 281250         | 7215           | 21         |                      |            |               |                      |                   |
|                                                     | +65     | 47511          | 63010          | 7186           | 26         |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>407,051</b> | <b>441,120</b> | <b>15,656</b>  | <b>50</b>  | <b>65%</b>           | <b>78</b>  | <b>76</b>     | <b>2</b>             | <b>56.44%</b>     |
| Palmetto Health Baptist                             | <18     | 88453          | 96860          | 13536          | 41         |                      |            |               |                      |                   |
|                                                     | 18-64   | 271087         | 281250         | 30251          | 86         |                      |            |               |                      |                   |
|                                                     | +65     | 47511          | 63010          | 26425          | 96         |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>407,051</b> | <b>441,120</b> | <b>70,212</b>  | <b>223</b> | <b>70%</b>           | <b>319</b> | <b>287</b>    | <b>32</b>            | <b>67.02%</b>     |
| Palmetto Health Richland                            | <18     | 88453          | 96860          | 37913          | 114        |                      |            |               |                      |                   |
|                                                     | 18-64   | 271087         | 281250         | 81421          | 231        |                      |            |               |                      |                   |
|                                                     | +65     | 47511          | 63010          | 48509          | 176        |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>407,051</b> | <b>441,120</b> | <b>167,843</b> | <b>521</b> | <b>75%</b>           | <b>696</b> | <b>579</b>    | <b>117</b>           | <b>79.42%</b>     |
| Providence Health<br>(Providence Hospital)          | <18     | 88453          | 96860          | 11             | 0          |                      |            |               |                      |                   |
|                                                     | 18-64   | 271087         | 281250         | 15827          | 45         |                      |            |               |                      |                   |
|                                                     | +65     | 47511          | 63010          | 24080          | 87         |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>407,051</b> | <b>441,120</b> | <b>39,918</b>  | <b>133</b> | <b>70%</b>           | <b>190</b> | <b>258</b>    | <b>-68</b>           | <b>42.39%</b>     |
| Providence Health Northeast                         | <18     | 88453          | 96860          | 18             | 0          |                      |            |               |                      |                   |
|                                                     | 18-64   | 271087         | 281250         | 2193           | 6          |                      |            |               |                      |                   |
|                                                     | +65     | 47511          | 63010          | 3116           | 11         |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>407,051</b> | <b>441,120</b> | <b>5,327</b>   | <b>18</b>  | <b>65%</b>           | <b>28</b>  | <b>74</b>     | <b>-46</b>           | <b>19.72%</b>     |
| <b>Richland County Total</b>                        |         |                |                |                |            |                      |            |               | <b>37</b>            |                   |
| Piedmont Medical Center 6                           | <18     | 61836          | 65930          | 1060           | 3          |                      |            |               |                      |                   |
|                                                     | 18-64   | 155706         | 175120         | 29476          | 91         |                      |            |               |                      |                   |
|                                                     | +65     | 33653          | 47100          | 26179          | 100        |                      |            |               |                      |                   |
| <b>TOTAL</b>                                        |         | <b>251,195</b> | <b>288,150</b> | <b>56,715</b>  | <b>194</b> | <b>70%</b>           | <b>278</b> | <b>268</b>    | <b>10</b>            | <b>57.98%</b>     |
| Fort Mill Medical Center 6                          |         |                |                |                |            |                      |            | <b>100</b>    |                      |                   |

**GENERAL BED NEED\***  
(Chapter 3)

| Facility by Region and County                            | Age Cat | 2015 Pop       | 2022 Pop       | 2015 Pt Days   | Proj ADC   | Variable Rate Factor | Bed Need   | Existing Beds | To Be Added / Excess | 2015 % Occup Rate |
|----------------------------------------------------------|---------|----------------|----------------|----------------|------------|----------------------|------------|---------------|----------------------|-------------------|
| <b>York County Total</b>                                 |         |                |                |                |            |                      |            | 278           | 368                  | -90               |
| <b>Region III</b>                                        |         |                |                |                |            |                      |            |               |                      |                   |
| McLeod Health Cheraw<br>(Chesterfield General Hospital)  | <18     | 10586          | 9690           | 19             | 0          |                      |            |               |                      |                   |
|                                                          | 18-64   | 27903          | 26100          | 842            | 2          |                      |            |               |                      |                   |
|                                                          | +65     | 7528           | 8850           | 769            | 2          |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>46,017</b>  | <b>44,640</b>  | <b>1,630</b>   | <b>5</b>   | <b>65%</b>           | <b>8</b>   | <b>59</b>     | <b>-51</b>           | <b>7.57%</b>      |
| <b>Chesterfield County Total</b>                         |         |                |                |                |            |                      |            | 8             | 59                   | -51               |
| McLeod Health Clarendon<br>(Clarendon Memorial Hospital) | <18     | 6891           | 6010           | 69             | 0          |                      |            |               |                      |                   |
|                                                          | 18-64   | 19893          | 17660          | 4605           | 11         |                      |            |               |                      |                   |
|                                                          | +65     | 6991           | 8140           | 5419           | 17         |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>33,775</b>  | <b>31,810</b>  | <b>10,093</b>  | <b>29</b>  | <b>65%</b>           | <b>45</b>  | <b>81</b>     | <b>-36</b>           | <b>34.14%</b>     |
| <b>Clarendon County Total</b>                            |         |                |                |                |            |                      |            | 45            | 81                   | -36               |
| Carolina Pines Regional Medical Center                   | <18     | 15405          | 14200          | 1822           | 5          |                      |            |               |                      |                   |
|                                                          | 18-64   | 40608          | 37730          | 6867           | 17         |                      |            |               |                      |                   |
|                                                          | +65     | 11535          | 13620          | 6839           | 22         |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>67,548</b>  | <b>65,550</b>  | <b>15,528</b>  | <b>44</b>  | <b>65%</b>           | <b>69</b>  | <b>116</b>    | <b>-47</b>           | <b>36.67%</b>     |
| McLeod Medical Center - Darlington                       | <18     | 15405          | 14200          | 0              | 0          |                      |            |               |                      |                   |
|                                                          | 18-64   | 40608          | 37730          | 217            | 1          |                      |            |               |                      |                   |
|                                                          | +65     | 11535          | 13620          | 328            | 1          |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>67,548</b>  | <b>65,550</b>  | <b>545</b>     | <b>2</b>   | <b>65%</b>           | <b>3</b>   | <b>49</b>     | <b>-46</b>           | <b>3.05%</b>      |
| <b>Darlington County Total</b>                           |         |                |                |                |            |                      |            | 72            | 165                  | -93               |
| McLeod Medical Center - Dillon                           | <18     | 8060           | 7530           | 525            | 1          |                      |            |               |                      |                   |
|                                                          | 18-64   | 18348          | 16750          | 4634           | 12         |                      |            |               |                      |                   |
|                                                          | +65     | 4826           | 5680           | 3265           | 11         |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>31,234</b>  | <b>29,960</b>  | <b>8,424</b>   | <b>23</b>  | <b>65%</b>           | <b>37</b>  | <b>79</b>     | <b>-42</b>           | <b>29.21%</b>     |
| <b>Dillon County Total</b>                               |         |                |                |                |            |                      |            | 37            | 79                   | -42               |
| Carolinas Hospital System 1                              | <18     | 33464          | 32770          |                | 0          |                      |            |               |                      |                   |
|                                                          | 18-64   | 83923          | 81910          |                | 0          |                      |            |               |                      |                   |
|                                                          | +65     | 21513          | 25870          |                | 0          |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>138,900</b> | <b>140,550</b> | <b>54320</b>   | <b>151</b> | <b>70%</b>           | <b>216</b> | <b>310</b>    | <b>-94</b>           | <b>48.01%</b>     |
| Women's Center - Carolinas Hospital System 1             | <18     | 33464          | 32770          |                | 0          |                      |            |               |                      |                   |
|                                                          | 18-64   | 83923          | 81910          |                | 0          |                      |            |               |                      |                   |
|                                                          | +65     | 21513          | 25870          |                | 0          |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>138,900</b> | <b>140,550</b> | <b>2,491</b>   | <b>7</b>   | <b>65%</b>           | <b>11</b>  | <b>20</b>     | <b>-9</b>            | <b>34.12%</b>     |
| Lake City Community Hospital 1                           | <18     | 33464          | 32770          |                | 0          |                      |            |               |                      |                   |
|                                                          | 18-64   | 83923          | 81910          |                | 0          |                      |            |               |                      |                   |
|                                                          | +65     | 21513          | 25870          |                | 0          |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>138,900</b> | <b>140,550</b> | <b>4,007</b>   | <b>11</b>  | <b>65%</b>           | <b>18</b>  | <b>48</b>     | <b>-30</b>           | <b>22.87%</b>     |
| McLeod Regional Medical Center - Pee Dee 7               | <18     | 33464          | 32770          | 3938           | 11         |                      |            |               |                      |                   |
|                                                          | 18-64   | 83923          | 81910          | 67808          | 181        |                      |            |               |                      |                   |
|                                                          | +65     | 21513          | 25870          | 59492          | 196        |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>138,900</b> | <b>140,550</b> | <b>131,238</b> | <b>388</b> | <b>75%</b>           | <b>518</b> | <b>461</b>    | <b>57</b>            | <b>77.99%</b>     |
| <b>Florence County Total</b>                             |         |                |                |                |            |                      |            | 763           | 839                  | -76               |
| Tidelands Georgetown Memorial Hospital                   | <18     | 12107          | 10870          | 189            | 0          |                      |            |               |                      |                   |
|                                                          | 18-64   | 33924          | 32090          | 7950           | 21         |                      |            |               |                      |                   |
|                                                          | +65     | 15267          | 19350          | 8661           | 30         |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>61,298</b>  | <b>62,310</b>  | <b>16,800</b>  | <b>51</b>  | <b>65%</b>           | <b>79</b>  | <b>131</b>    | <b>-52</b>           | <b>35.14%</b>     |
| Tidelands Waccamaw Community Hospital                    | <18     | 12107          | 10870          | 225            | 1          |                      |            |               |                      |                   |
|                                                          | 18-64   | 33924          | 32090          | 10013          | 26         |                      |            |               |                      |                   |
|                                                          | +65     | 15267          | 19350          | 17628          | 61         |                      |            |               |                      |                   |
| <b>TOTAL</b>                                             |         | <b>61,298</b>  | <b>62,310</b>  | <b>27,866</b>  | <b>88</b>  | <b>65%</b>           | <b>135</b> | <b>124</b>    | <b>11</b>            | <b>61.57%</b>     |
| <b>Georgetown County Total</b>                           |         |                |                |                |            |                      |            | 214           | 255                  | -41               |

**GENERAL BED NEED\***  
**(Chapter 3)**

| Facility by Region and County                                        | Age<br>Cat   | 2015<br>Pop    | 2022<br>Pop    | 2015<br>Pt Days | Proj<br>ADC | Variable<br>Rate<br>Factor | Bed<br>Need | Existing<br>Beds | To Be<br>Added /<br>Excess | 2015<br>% Occup<br>Rate |
|----------------------------------------------------------------------|--------------|----------------|----------------|-----------------|-------------|----------------------------|-------------|------------------|----------------------------|-------------------------|
| Conway Hospital                                                      | <18          | 58904          | 63740          | 3612            | 11          |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 184214         | 205840         | 15761           | 48          |                            |             |                  |                            |                         |
|                                                                      | +65          | 66081          | 105690         | 13463           | 59          |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>309,199</b> | <b>375,270</b> | <b>32,836</b>   | <b>118</b>  | <b>70%</b>                 | <b>169</b>  | <b>210</b>       | <b>-41</b>                 | <b>42.84%</b>           |
| Grand Strand Medical Center <b>8</b>                                 | <18          | 58904          | 63740          | 1174            | 3           |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 184214         | 205840         | 38020           | 116         |                            |             |                  |                            |                         |
|                                                                      | +65          | 66081          | 105690         | 43033           | 189         |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>309,199</b> | <b>375,270</b> | <b>82,227</b>   | <b>308</b>  | <b>70%</b>                 | <b>441</b>  | <b>325</b>       | <b>116</b>                 | <b>69.32%</b>           |
| McLeod Loris (Loris Community Hospital) <b>9</b>                     | <18          | 58904          | 63740          | 219             | 1           |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 184214         | 205840         | 4230            | 13          |                            |             |                  |                            |                         |
|                                                                      | +65          | 66081          | 105690         | 4762            | 21          |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>309,199</b> | <b>375,270</b> | <b>9,211</b>    | <b>34</b>   | <b>65%</b>                 | <b>54</b>   | <b>50</b>        | <b>4</b>                   | <b>50.47%</b>           |
| McLeod Seacoast (Seacoast Medical Center) <b>9</b>                   | <18          | 58904          | 63740          | 31              | 0           |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 184214         | 205840         | 3138            | 10          |                            |             |                  |                            |                         |
|                                                                      | +65          | 66081          | 105690         | 6088            | 27          |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>309,199</b> | <b>375,270</b> | <b>9,257</b>    | <b>36</b>   | <b>65%</b>                 | <b>56</b>   | <b>105</b>       | <b>-49</b>                 | <b>24.15%</b>           |
| <b>Horry County Total</b>                                            |              |                |                |                 |             |                            | <b>664</b>  | <b>585</b>       | <b>79</b>                  |                         |
| Carolinas Hospital System - Marion<br>(Marion County Medical Center) | <18          | 7473           | 6870           | 3229            | 8           |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 18657          | 16570          | 3230            | 8           |                            |             |                  |                            |                         |
|                                                                      | +65          | 5617           | 6320           | 3328            | 10          |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>31,747</b>  | <b>29,760</b>  | <b>9,787</b>    | <b>26</b>   | <b>65%</b>                 | <b>41</b>   | <b>124</b>       | <b>-83</b>                 | <b>21.62%</b>           |
| <b>Marion County Total</b>                                           |              |                |                |                 |             |                            | <b>41</b>   | <b>124</b>       | <b>-83</b>                 |                         |
| Marlboro Park Hospital <b>4</b>                                      | <18          | 5,766          | 5,100          |                 |             |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 18,097         | 16,530         |                 |             |                            |             |                  |                            |                         |
|                                                                      | +65          | 4,140          | 4,730          |                 |             |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>28,003</b>  | <b>26,360</b>  |                 |             | <b>65%</b>                 | <b>25</b>   | <b>0</b>         | <b>25</b>                  | <b>0.00%</b>            |
| <b>Marlboro County Total</b>                                         |              |                |                |                 |             |                            | <b>25</b>   | <b>0</b>         | <b>25</b>                  |                         |
| Palmetto Health Tuomey                                               | <18          | 26388          | 25270          |                 | 0           |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 64991          | 62120          | 26055           | 68          |                            |             |                  |                            |                         |
|                                                                      | +65          | 16101          | 19360          | 25033           | 82          |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>107,480</b> | <b>106,750</b> | <b>51,088</b>   | <b>151</b>  | <b>70%</b>                 | <b>216</b>  | <b>283</b>       | <b>-67</b>                 | <b>49.46%</b>           |
| <b>Sumter County Total</b>                                           |              |                |                |                 |             |                            | <b>216</b>  | <b>283</b>       | <b>-67</b>                 |                         |
| Williamsburg Regional Hospital <b>1</b>                              | <18          | 7,271          | 6,300          |                 | 0           |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 20,162         | 17,270         | 1,956           | 5           |                            |             |                  |                            |                         |
|                                                                      | +65          | 5,634          | 6,690          | 2,995           | 10          |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>33,067</b>  | <b>30,260</b>  | <b>4,951</b>    | <b>14</b>   | <b>65%</b>                 | <b>23</b>   | <b>25</b>        | <b>-2</b>                  | <b>54.26%</b>           |
| <b>Williamsburg County Total</b>                                     |              |                |                |                 |             |                            | <b>23</b>   | <b>25</b>        | <b>-2</b>                  |                         |
| <b>Region IV</b>                                                     |              |                |                |                 |             |                            |             |                  |                            |                         |
| Allendale County Hospital <b>1</b>                                   | <18          | 1795           | 1360           | 0               | 0           |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 6004           | 4970           | 314             | 1           |                            |             |                  |                            |                         |
|                                                                      | +65          | 1634           | 1900           | 353             | 1           |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>9,433</b>   | <b>8,230</b>   | <b>667</b>      | <b>2</b>    | <b>65%</b>                 | <b>3</b>    | <b>25</b>        | <b>-22</b>                 | <b>7.31%</b>            |
| <b>Allendale County Total</b>                                        |              |                |                |                 |             |                            | <b>3</b>    | <b>25</b>        | <b>-22</b>                 |                         |
| Beaufort Memorial Hospital <b>1</b>                                  | <18          | 35395          | 36880          |                 | 0           |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 99620          | 106450         |                 | 0           |                            |             |                  |                            |                         |
|                                                                      | +65          | 44574          | 61540          |                 | 0           |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>179,589</b> | <b>204,870</b> | <b>39,898</b>   | <b>125</b>  | <b>65%</b>                 | <b>192</b>  | <b>169</b>       | <b>23</b>                  | <b>64.68%</b>           |
| Hilton Head Hospital                                                 | <18          | 35395          | 36880          | 117             | 0           |                            |             |                  |                            |                         |
|                                                                      | 18-64        | 99620          | 106450         | 7558            | 22          |                            |             |                  |                            |                         |
|                                                                      | +65          | 44574          | 61540          | 14803           | 56          |                            |             |                  |                            |                         |
|                                                                      | <b>TOTAL</b> | <b>179,589</b> | <b>204,870</b> | <b>22,478</b>   | <b>78</b>   | <b>65%</b>                 | <b>121</b>  | <b>93</b>        | <b>28</b>                  | <b>66.22%</b>           |
| <b>Beaufort County Total</b>                                         |              |                |                |                 |             |                            | <b>313</b>  | <b>262</b>       | <b>51</b>                  |                         |

**GENERAL BED NEED\***  
(Chapter 3)

| Facility by Region and County                                     | Age Cat      | 2015 Pop       | 2022 Pop       | 2015 Pt Days   | Proj ADC   | Variable Rate Factor | Bed Need     | Existing Beds | To Be Added / Excess | 2015 % Occup Rate |
|-------------------------------------------------------------------|--------------|----------------|----------------|----------------|------------|----------------------|--------------|---------------|----------------------|-------------------|
| Trident Medical Center & Berkeley Medical Center <b>1, 10</b>     | <18          | 166114         | 180030         |                | 0          |                      |              |               |                      |                   |
|                                                                   | 18-64        | 476343         | 535390         |                | 0          |                      |              |               |                      |                   |
|                                                                   | +65          | 102069         | 146830         |                | 0          |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>744,526</b> | <b>862,250</b> | <b>71,955</b>  | <b>228</b> | <b>70%</b>           | <b>327</b>   | <b>296</b>    | <b>31</b>            | <b>66.60%</b>     |
| Summerville Medical Center <b>11</b>                              | <18          | 166114         | 180030         | 2028           | 6          |                      |              |               |                      |                   |
|                                                                   | 18-64        | 476343         | 535390         | 11593          | 36         |                      |              |               |                      |                   |
|                                                                   | +65          | 102069         | 146830         | 8513           | 34         |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>744,526</b> | <b>862,250</b> | <b>22,134</b>  | <b>75</b>  | <b>65%</b>           | <b>116</b>   | <b>124</b>    | <b>-8</b>            | <b>48.90%</b>     |
| MUSC Medical Center <b>12</b>                                     | <18          | 166114         | 180030         | 28399          | 84         |                      |              |               |                      |                   |
|                                                                   | 18-64        | 476343         | 535390         | 105594         | 325        |                      |              |               |                      |                   |
|                                                                   | +65          | 102069         | 146830         | 48814          | 192        |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>744,526</b> | <b>862,250</b> | <b>182,807</b> | <b>602</b> | <b>75%</b>           | <b>803</b>   | <b>656</b>    | <b>147</b>           | <b>76.35%</b>     |
| Mount Pleasant Hospital                                           | <18          | 166114         | 180030         | 8              | 0          |                      |              |               |                      |                   |
|                                                                   | 18-64        | 476343         | 535390         | 2645           | 8          |                      |              |               |                      |                   |
|                                                                   | +65          | 102069         | 146830         | 2400           | 9          |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>744,526</b> | <b>862,250</b> | <b>5,053</b>   | <b>18</b>  | <b>65%</b>           | <b>28</b>    | <b>85</b>     | <b>-57</b>           | <b>16.29%</b>     |
| Roper Hospital <b>13</b>                                          | <18          | 166114         | 180030         | 13             | 0          |                      |              |               |                      |                   |
|                                                                   | 18-64        | 476343         | 535390         | 22148          | 68         |                      |              |               |                      |                   |
|                                                                   | +65          | 102069         | 146830         | 34258          | 135        |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>744,526</b> | <b>862,250</b> | <b>56,419</b>  | <b>203</b> | <b>70%</b>           | <b>291</b>   | <b>316</b>    | <b>-25</b>           | <b>48.92%</b>     |
| Bon Secours - Saint Francis Xavier Hospital                       | <18          | 166114         | 180030         | 92             | 0          |                      |              |               |                      |                   |
|                                                                   | 18-64        | 476343         | 535390         | 19206          | 59         |                      |              |               |                      |                   |
|                                                                   | +65          | 102069         | 146830         | 12379          | 49         |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>744,526</b> | <b>862,250</b> | <b>31,677</b>  | <b>108</b> | <b>70%</b>           | <b>155</b>   | <b>204</b>    | <b>-49</b>           | <b>42.54%</b>     |
| East Cooper Medical Center                                        | <18          | 166114         | 180030         | 19             | 0          |                      |              |               |                      |                   |
|                                                                   | 18-64        | 476343         | 535390         | 8607           | 27         |                      |              |               |                      |                   |
|                                                                   | +65          | 102069         | 146830         | 5979           | 24         |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>744,526</b> | <b>862,250</b> | <b>14,605</b>  | <b>50</b>  | <b>65%</b>           | <b>78</b>    | <b>130</b>    | <b>-52</b>           | <b>30.78%</b>     |
| <b>Berkeley / Charleston / Dorchester County Total</b>            |              |                |                |                |            |                      | <b>1,798</b> | <b>1,811</b>  | <b>-13</b>           |                   |
| Colleton Medical Center                                           | <18          | 8550           | 7680           | 825            | 2          |                      |              |               |                      |                   |
|                                                                   | 18-64        | 21940          | 19620          | 8934           | 22         |                      |              |               |                      |                   |
|                                                                   | +65          | 7241           | 8630           | 9478           | 31         |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>37,731</b>  | <b>35,930</b>  | <b>19,237</b>  | <b>55</b>  | <b>65%</b>           | <b>85</b>    | <b>116</b>    | <b>-31</b>           | <b>45.43%</b>     |
| <b>Colleton County Total</b>                                      |              |                |                |                |            |                      | <b>85</b>    | <b>116</b>    | <b>-31</b>           |                   |
| Hampton Regional Medical Center                                   | <18          | 4447           | 3830           | 10             | 0          |                      |              |               |                      |                   |
|                                                                   | 18-64        | 12266          | 10850          | 1033           | 3          |                      |              |               |                      |                   |
|                                                                   | +65          | 3336           | 3910           | 1512           | 5          |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>20,049</b>  | <b>18,590</b>  | <b>2,555</b>   | <b>7</b>   | <b>65%</b>           | <b>12</b>    | <b>32</b>     | <b>-20</b>           | <b>21.88%</b>     |
| <b>Hampton County Total</b>                                       |              |                |                |                |            |                      | <b>12</b>    | <b>32</b>     | <b>-20</b>           |                   |
| Coastal Carolina Medical Center                                   | <18          | 5922           | 5660           | 20             | 0          |                      |              |               |                      |                   |
|                                                                   | 18-64        | 17158          | 18410          | 3921           | 12         |                      |              |               |                      |                   |
|                                                                   | +65          | 4744           | 9900           | 4804           | 27         |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>27,824</b>  | <b>33,970</b>  | <b>8,745</b>   | <b>39</b>  | <b>65%</b>           | <b>61</b>    | <b>41</b>     | <b>20</b>            | <b>58.44%</b>     |
| <b>Jasper County Total</b>                                        |              |                |                |                |            |                      | <b>61</b>    | <b>41</b>     | <b>20</b>            |                   |
| Regional Medical Center of Orangeburg & Calhoun Counties <b>1</b> | <18          | 23030          | 21720          |                | 0          |                      |              |               |                      |                   |
|                                                                   | 18-64        | 62137          | 54260          |                | 0          |                      |              |               |                      |                   |
|                                                                   | +65          | 18822          | 21980          |                | 0          |                      |              |               |                      |                   |
|                                                                   | <b>TOTAL</b> | <b>103,989</b> | <b>97,960</b>  | <b>44,741</b>  | <b>115</b> | <b>70%</b>           | <b>165</b>   | <b>247</b>    | <b>-82</b>           | <b>49.63%</b>     |
| <b>Orangeburg / Calhoun County Total</b>                          |              |                |                |                |            |                      | <b>165</b>   | <b>247</b>    | <b>-82</b>           |                   |

\* This chart does not count beds already counted in the charts for psychiatric beds, rehabilitation beds, and substance abuse beds. The patient days associated with these beds have been deducted from the reported total number of patient days.

**1** Age cohorts not adequately reported.

**2** Facility did not submit 2015 JAR.

**GENERAL BED NEED\***  
(Chapter 3)

| Facility by Region and County                                                                                                                                                            | Age<br>Cat | 2015<br>Pop | 2022<br>Pop | 2015<br>Pt Days | Proj<br>ADC | Variable<br>Rate<br>Factor | Bed<br>Need | Existing<br>Beds | To Be<br>Added /<br>Excess | 2015<br>% Occup<br>Rate |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-------------|-----------------|-------------|----------------------------|-------------|------------------|----------------------------|-------------------------|
| <b>3</b> SC-16-17 issued 3/2/2017 for the addition of 14 acute care beds.                                                                                                                |            |             |             |                 |             |                            |             |                  |                            |                         |
| <b>4</b> Facility is closed. Bed need is based minimally on CAH bed count limit.                                                                                                         |            |             |             |                 |             |                            |             |                  |                            |                         |
| <b>5</b> SC-16-08 issued 3/2/2016 for addition of 71 acute care beds, some of which have been liscenced.                                                                                 |            |             |             |                 |             |                            |             |                  |                            |                         |
| <b>6</b> Pending resolution of an appeal, Piedmont proposes constructing a 100-bed hospital in Fort Mill using a combination of new and transferred hospital beds.                       |            |             |             |                 |             |                            |             |                  |                            |                         |
| <b>7</b> SC-16-42 issued 8/11/2016 for addition of 8 acute care beds.                                                                                                                    |            |             |             |                 |             |                            |             |                  |                            |                         |
| <b>8</b> SC-16-17 issued 5/12/2016 for the addition of 24 acute care beds.                                                                                                               |            |             |             |                 |             |                            |             |                  |                            |                         |
| <b>9</b> SC-15-29 issued 8/18/2015 for transfer of 55 acute care beds from McLeod Loris to McLeod Loris Seacoast for a total of 50 beds at McLeod Loris and 105 beds at McLeod Seacoast. |            |             |             |                 |             |                            |             |                  |                            |                         |
| <b>10</b> SC-16-19 issued 5/26/2016 for the construction of a new 50 bed acute care hospital.                                                                                            |            |             |             |                 |             |                            |             |                  |                            |                         |
| <b>11</b> SC-14-07 issued 10/27/2014 for addition of 30 acute care beds.                                                                                                                 |            |             |             |                 |             |                            |             |                  |                            |                         |
| <b>12</b> CON SC-15-15 issued 6/30/15 for the addition of 52 acute hospital beds, some of which have been liscenced.                                                                     |            |             |             |                 |             |                            |             |                  |                            |                         |
| <b>13</b> SC-16-01 issued 1/6/2016 for construction of a new acute care hospital by transfer of 50 beds from Roper Hospital to the new hospital.                                         |            |             |             |                 |             |                            |             |                  |                            |                         |

**LONG-TERM ACUTE CARE HOSPITALS  
(Chapter 3)**

| Facility By Region                                        | County      | <u>2013</u> |         |                | <u>2014</u> |         |                | <u>2015</u> |         |                |
|-----------------------------------------------------------|-------------|-------------|---------|----------------|-------------|---------|----------------|-------------|---------|----------------|
|                                                           |             | Beds        | Pt Days | Occupancy Rate | Beds        | Pt Days | Occupancy Rate | Beds        | Pt Days | Occupancy Rate |
| <b>Region I</b>                                           |             |             |         |                |             |         |                |             |         |                |
| North Greenville Long-Term Acute                          | Greenville  | 45          | 7,626   | 46.4%          | 45          | 7,758   | 47.2%          | 45          | 7,841   | 47.7%          |
| Regency Hospital of Greenville                            | Greenville  | 32          | 10,467  | 89.6%          | 32          | 9,960   | 85.3%          | 32          | 9,607   | 82.3%          |
| Spartanburg Hospital Restorative for Care                 | Spartanburg | 97          | 11,365  | 32.1%          | 97          | 10,892  | 30.8%          | 97          | 10,118  | 28.6%          |
|                                                           |             |             |         |                |             |         |                |             |         |                |
| <b>Region II</b>                                          |             |             |         |                |             |         |                |             |         |                |
| Continuecare Hospital at Palmetto Health Baptist <b>1</b> | Richland    | 35          | 6,966   | 54.5%          | 35          | NR      | 0.0%           | 35          | NR      | 0.0%           |
|                                                           |             |             |         |                |             |         |                |             |         |                |
| <b>Region III</b>                                         |             |             |         |                |             |         |                |             |         |                |
| Regency Hospital of South Carolina                        | Florence    | 40          | 11,986  | 82.1%          | 40          | 12,527  | 85.8%          | 40          | 12,946  | 88.7%          |
|                                                           |             |             |         |                |             |         |                |             |         |                |
| <b>Region IV</b>                                          |             |             |         |                |             |         |                |             |         |                |
| Vibra Hospital of Charleston <b>2</b>                     | Charleston  | 59          | 5,161   | 24.0%          | 59          | 15,883  | 73.8%          | 59          | NR      | 0.0%           |

1 Intermedical Hospital of South Carolina change of ownership 08/2016. New owner has not submitted required JAR data.

2 Facility missing required JAR data.

ROA 005379

**CRITICAL ACCESS HOSPITALS\***  
**(Chapter 3)**

**Facility by Region**

**Region I**

Abbeville Memorial Hospital

**Region II**

Edgefield County Hospital

Fairfield Memorial Hospital

**Region III**

Williamsburg Regional Hospital **1**

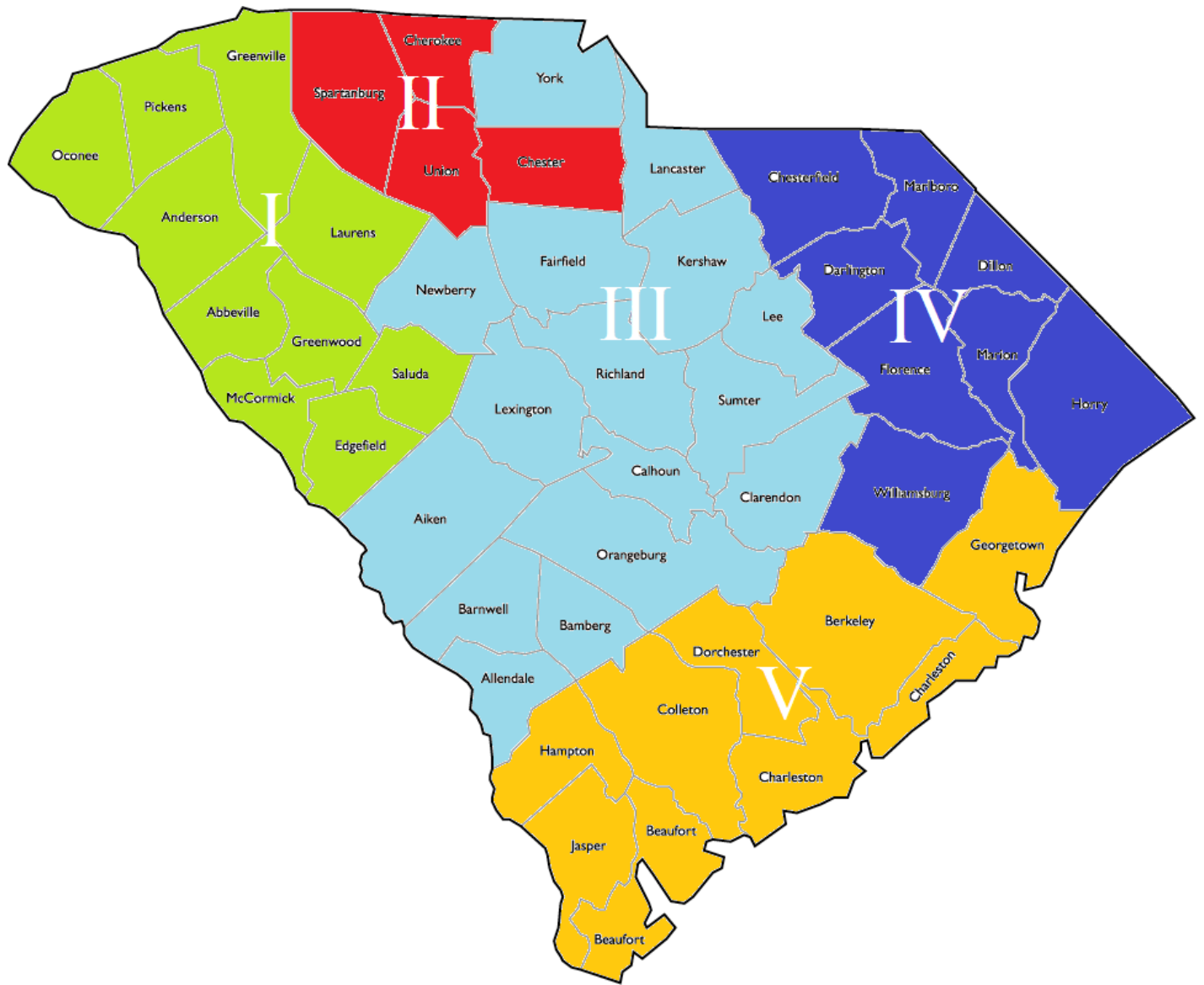
**Region IV**

Allendale County Hospital

\* Other facilities may potentially be eligible for CAH status.

# PERINATAL REGIONS MAP

(Chapter 3)



**PERINATAL-CAPABLE FACILITIES  
(Chapter 3)**

**Facility by Service Level**

**Perinatal Region**

**Regional Perinatal Centers (RPCs)**

|                                               |     |
|-----------------------------------------------|-----|
| GHS Greenville Memorial Hospital              | I   |
| Spartanburg Medical Center                    | II  |
| Palmetto Health Richland                      | III |
| McLeod Regional Medical Center of the Pee Dee | IV  |
| MUSC Medical Center                           | V   |

**Subspecialty Perinatal Center (Level III Hospital)**

|                          |     |
|--------------------------|-----|
| Self Regional Healthcare | I   |
| Palmetto Health Baptist  | III |
| Piedmont Medical Center  | III |

**Specialty Perinatal Centers (Level II Hospitals)**

|                                                          |     |
|----------------------------------------------------------|-----|
| AnMed Health Women's and Children's Hospital             | I   |
| Baptist Easley Hospital                                  | I   |
| St. Francis - Eastside                                   | I   |
| Mary Black Health System - Spartanburg                   | II  |
| Aiken Regional Medical Center                            | III |
| Lexington Medical Center                                 | III |
| Regional Medical Center of Orangeburg & Calhoun Counties | III |
| Springs Memorial Hospital                                | III |
| Palmetto Health Tuomey                                   | III |
| Carolinas Hospital System - Marion                       | IV  |
| Carolina Pines Regional Medical Center                   | IV  |
| Conway Hospital                                          | IV  |
| Grand Strand Medical Center                              | IV  |
| The Women's Center of Carolinas Hospital System          | IV  |
| Beaufort Memorial Hospital                               | V   |
| Bon Secours - St. Francis Xavier Hospital                | V   |
| East Cooper Medical Center                               | V   |
| Tidelands Georgetown Memorial Hospital                   | V   |
| Summerville Medical Center                               | V   |
| Trident Medical Center                                   | V   |
| Tidelands Waccamaw Community Hospital                    | V   |

**OB UTILIZATION AND BIRTHS**  
**(Chapter 3)**

| Facility                                                     | 2015          |         |            |              |                  |
|--------------------------------------------------------------|---------------|---------|------------|--------------|------------------|
|                                                              | Births        | OB Beds | Admissions | Patient Days | % Occupancy Rate |
| Aiken Regional Medical Center                                | 1132          | 18      | 1328       | 3179         | 48.4%            |
| AnMed Health Women's & Children's Hospital                   | 1825          | 28      | 1561       | 3831         | 37.5%            |
| Beaufort Memorial Hospital                                   | 934           | 9       | 949        | 2055         | 62.6%            |
| Bon Secours Saint Francis Xavier Hospital                    | 2620          | 15      | 2799       | 6455         | 117.9%           |
| Carolina Pines Regional Medical Center                       | 553           | 13      | 731        | 1770         | 37.3%            |
| McLeod Health Cheraw                                         | 65            | 10      | 72         | 134          | 3.7%             |
| McLeod Health Clarendon                                      | 417           | 11      | 471        | 1026         | 25.6%            |
| Coastal Carolina Hospital                                    | 711           | 10      | 780        | 1773         | 48.6%            |
| Colleton Medical Center                                      | 316           | 6       | 322        | 740          | 33.8%            |
| Conway Hospital                                              | 1406          | 16      | 1633       | 3699         | 63.3%            |
| East Cooper Medical Center                                   | 1476          | 38      | 1772       | 4510         | 32.5%            |
| Tidelands Georgetown Memorial Hospital                       | 299           | 14      | 414        | 999          | 19.5%            |
| Grand Strand Medical Center                                  | 956           | 19      | 1205       | 2739         | 39.5%            |
| GHS Greenville Memorial Hospital                             | 5657          | 59      | 4971       | 17642        | 81.9%            |
| GHS Greer Memorial Hospital                                  | 673           | 10      | 679        | 1610         | 44.1%            |
| Hilton Head Hospital                                         | 558           | 8       | 592        | 1207         | 41.3%            |
| Kershaw Health                                               | 270           | 10      | 300        | 672          | 18.4%            |
| GHS Laurens County Memorial Hospital                         | 343           | 5       | 383        | 783          | 42.9%            |
| Lexington Medical Center                                     | 3674          | 39      | 3894       | 9365         | 65.8%            |
| McLeod Loris                                                 | 452           | 8       | 478        | 946          | 32.4%            |
| Carolinas Health System - Marion                             | 261           | 5       | 298        | 630          | 34.5%            |
| Mary Black Health System - Spartanburg                       | 810           | 21      | 884        | 2110         | 27.5%            |
| McLeod Medical Center Dillon                                 | 276           | 12      | 324        | 774          | 17.7%            |
| McLeod Regional Medical Center of the Pee Dee                | 2205          | 22      | 2249       | 6759         | 84.2%            |
| MUSC Medical Center                                          | 2738          | 36      | 2888       | 8326         | 63.4%            |
| Newberry County Memorial Hospital                            | 298           | 10      | 309        | 604          | 16.5%            |
| GHS Oconee Memorial Hospital                                 | 515           | 15      | 541        | 1239         | 22.6%            |
| Baptist Easley Hospital                                      | 435           | 14      | 510        | 1416         | 27.7%            |
| Palmetto Health Baptist                                      | 3008          | 83      | 6663       | 11024        | 36.4%            |
| Palmetto Health Baptist Parkridge                            | 558           | 33      | 678        | 2067         | 17.2%            |
| Palmetto Health Richland                                     | 2424          | 42      | 4022       | 10335        | 67.4%            |
| Piedmont Medical Center                                      | 1638          | 19      | 1712       | 4619         | 66.6%            |
| Regional Medical Center of Orangeburg & Calhoun Counties     | 987           | 32      | 1291       | 2716         | 23.3%            |
| St. Francis - Eastside                                       | 2318          | 33      | 2380       | 6147         | 51.0%            |
| Self Regional Healthcare                                     | 1418          | 36      | 1568       | 4074         | 31.0%            |
| Spartanburg Medical Center                                   | 2754          | 39      | 3627       | 8519         | 59.8%            |
| Springs Memorial Hospital                                    | 681           | 5       | 132        | 1866         | 102.2%           |
| Summerville Medical Center                                   | 1176          | 12      | 1237       | 1980         | 45.2%            |
| Trident Medical Center                                       | 1524          | 25      | 1562       | 3545         | 38.8%            |
| Palmetto Health Tuomey                                       | 1370          | 24      | 338        | 4532         | 51.7%            |
| Mary Black Health System - Gaffney                           | 240           | 15      | 304        | 741          | 13.5%            |
| Tidelands Waccamaw Community Hospital                        | 577           | 19      | 1320       | 3864         | 55.7%            |
| Union Medical Center (Formerly Wallace Thomson) <sup>1</sup> | 91            | -       | 95         | 246          | 0.0%             |
| Women's Center of Carolinas Hospital System                  | 694           | 20      | 1,046      | 1,602        | 21.9%            |
| <b>Total Births</b>                                          | <b>53,333</b> |         |            |              |                  |

<sup>1</sup> Facility ceased OB service line effective July 27, 2015

**INTENSIVE AND INTERMEDIATE BASSINETS**  
(Chapter 3)

| Facility by Perinatal Region                             | Service Level | Existing Bassinets |              |
|----------------------------------------------------------|---------------|--------------------|--------------|
|                                                          |               | Intensive          | Intermediate |
| Region I - Greenville Memorial                           |               |                    |              |
| GHS Greenville Memorial Hospital                         | RPC           | 12                 | 68           |
| Self Regional Healthcare                                 | Level III     | 7                  | 11           |
| AnMed Health Women's & Children's Hospital               | Level II      | 0                  | 13           |
| Baptist Easley Hospital                                  | Level II      | 0                  | 4            |
| St. Francis - Eastside                                   | Level II      | 0                  | 10           |
| Subtotal                                                 |               | 19                 | 106          |
| Region II - Spartanburg Regional                         |               |                    |              |
| Spartanburg Medical Center                               | RPC           | 13                 | 22           |
| Mary Black Health System - Spartanburg                   | Level II      | 0                  | 10           |
| Subtotal                                                 |               | 13                 | 32           |
| Region III - Palmetto Health Richland                    |               |                    |              |
| Palmetto Health Richland                                 | RPC           | 31                 | 38           |
| Palmetto Health Baptist                                  | Level III     | 8                  | 22           |
| Piedmont Medical Center                                  | Level III     | 5                  | 7            |
| Aiken Regional Medical Center                            | Level II      | 0                  | 8            |
| Lexington Medical Center                                 | Level II      | 0                  | 20           |
| Regional Medical Center of Orangeburg & Calhoun Counties | Level II      | 0                  | 10           |
| Springs Memorial Hospital                                | Level II      | 0                  | 4            |
| Palmetto Health Tuomey                                   | Level II      | 0                  | 22           |
| Subtotal                                                 |               | 44                 | 131          |
| Region IV - McLeod Regional                              |               |                    |              |
| McLeod Regional Medical Center of the Pee Dee 1          | RPC           | 20                 | 28           |
| Carolinas Hospital System - Marion                       | Level II      | 0                  | 2            |
| Carolina Pines Regional Medical Center                   | Level II      | 0                  | 4            |
| Conway Hospital                                          | Level II      | 0                  | 6            |
| Grand Strand Medical Center                              | Level II      | 0                  | 2            |
| Women's Center of Carolinas Hospital System              | Level II      | 0                  | 11           |
| Subtotal                                                 |               | 20                 | 53           |
| Region V - MUSC Medical                                  |               |                    |              |
| MUSC Medical Center                                      | RPC           | 16                 | 50           |
| Beaufort Memorial Hospital                               | Level II      | 0                  | 5            |
| Bon Secours St. Francis Xavier Hospital                  | Level II      | 0                  | 11           |
| East Cooper Medical Center                               | Level II      | 0                  | 10           |
| Tidelands Georgetown Memorial Hospital                   | Level II      | 0                  | 5            |
| Summerville Medical Center                               | Level II      | 0                  | 12           |
| Trident Medical Center                                   | Level II      | 0                  | 0            |
| Tidelands Waccamaw Community Hospital                    | Level II      | 0                  | 2            |
| Subtotal                                                 |               | 16                 | 95           |
| Totals                                                   |               | 112                | 417          |

<sup>1</sup> CON SC-16-42 issued August 11, 2016 for the addition of 8 intensive care bassinets for a total of 20. Not yet implemented.

**UTILIZATION OF NEONATAL SPECIAL CARE UNITS**  
(Chapter 3)

| Facility by Perinatal Region                             | Service Level | 2015                |                   |                        |                      |                 |               |                 |
|----------------------------------------------------------|---------------|---------------------|-------------------|------------------------|----------------------|-----------------|---------------|-----------------|
|                                                          |               | Intensive Bassinets | Intensive Pt Days | Intermediate Bassinets | Intermediate Pt Days | Total Bassinets | Total Pt Days | Total Occupancy |
| Region I - Greenville Memorial                           |               |                     |                   |                        |                      |                 |               |                 |
| GHS Greenville Memorial Hospital                         | RPC           | 12                  | 6,098             | 68                     | 15,681               | 80              | 21,779        | 74.6%           |
| Self Regional Healthcare                                 | Level III     | 7                   | 538               | 11                     | 1,738                | 18              | 2,276         | 34.6%           |
| AnMed Health Women's & Children's Hospital               | Level II      | 0                   | 0                 | 13                     | 971                  | 13              | 971           | 20.5%           |
| Baptist Easley Hospital                                  | Level II      | 0                   | 0                 | 4                      | 0                    | 4               | 0             | 0.0%            |
| St. Francis - Eastside                                   | Level II      | 0                   | 0                 | 10                     | 1,541                | 10              | 1,541         | 42.2%           |
| SUBTOTAL                                                 |               | 19                  | 6,636             | 106                    | 19,931               | 125             | 26,567        | 58.2%           |
| Region II - Spartanburg Regional                         |               |                     |                   |                        |                      |                 |               |                 |
| Spartanburg Medical Center                               | RPC           | 13                  | 5,042             | 22                     | 3,548                | 35              | 8,590         | 67.2%           |
| Mary Black Health System - Spartanburg                   | Level II      | 0                   | 0                 | 10                     | 182                  | 10              | 182           | 5.0%            |
| SUBTOTAL                                                 |               | 13                  | 5,042             | 32                     | 3,730                | 45              | 8,772         | 53.4%           |
| Region III - Palmetto Health Richland                    |               |                     |                   |                        |                      |                 |               |                 |
| Palmetto Health Richland                                 | RPC           | 31                  | 10,431            | 38                     | 9,002                | 69              | 19,433        | 77.2%           |
| Palmetto Health Baptist                                  | Level III     | 8                   | 1,575             | 22                     | 4,339                | 30              | 5,914         | 54.0%           |
| Piedmont Medical Center                                  | Level III     | 5                   |                   | 7                      | 1,901                | 12              | 1,901         | 43.4%           |
| Aiken Regional Medical Center                            | Level II      | 0                   | 0                 | 8                      | 220                  | 8               | 220           | 7.5%            |
| Lexington Medical Center                                 | Level II      | 0                   | 0                 | 20                     | 3,287                | 20              | 3,287         | 45.0%           |
| Regional Medical Center of Orangeburg & Calhoun Counties | Level II      | 0                   | 0                 | 10                     | 2,115                | 10              | 2,115         | 57.9%           |
| Springs Memorial Hospital                                | Level II      | 0                   | 0                 | 4                      | 38                   | 4               | 38            | 2.6%            |
| Palmetto Health Tuomey                                   | Level II      | 0                   | 0                 | 22                     | 118                  | 22              | 118           | 1.5%            |
| SUBTOTAL                                                 |               | 44                  | 12,006            | 131                    | 21,020               | 175             | 33,026        | 51.7%           |
| Region IV - McLeod Regional                              |               |                     |                   |                        |                      |                 |               |                 |
| McLeod Regional Medical Center of the Pee                | RPC           | 20                  | 5,261             | 28                     | 5,146                | 48              | 10,407        | 59.4%           |
| Carolinas Hospital System - Marion                       | Level II      | 0                   | 0                 | 2                      | 14                   | 2               | 14            | 1.9%            |
| Carolina Pines Regional Medical Center                   | Level II      | 0                   | 0                 | 4                      | 407                  | 4               | 407           | 27.9%           |
| Conway Hospital                                          | Level II      | 0                   | 0                 | 6                      | 955                  | 6               | 955           | 43.6%           |
| Grand Strand Medical Center                              | Level II      | 0                   | 0                 | 2                      | 968                  | 2               | 968           | 132.6%          |
| Women's Center of Carolinas Hospital System              | Level II      | 0                   | 0                 | 11                     | 889                  | 11              | 889           | 22.1%           |
| SUBTOTAL                                                 |               | 20                  | 5,261             | 53                     | 8,379                | 73              | 13,640        | 51.2%           |
| Region V - MUSC Medical                                  |               |                     |                   |                        |                      |                 |               |                 |
| MUSC Medical Center                                      | RPC           | 16                  | 8,026             | 50                     | 12,143               | 66              | 20,169        | 83.7%           |
| Beaufort Memorial Hospital                               | Level II      | 0                   | 0                 | 5                      | 0                    | 5               | 0             | 0.0%            |
| Bon Secours St. Francis Xavier Hospital                  | Level II      | 0                   | 0                 | 11                     | 2,180                | 11              | 2,180         | 54.3%           |
| East Cooper Medical Center                               | Level II      | 0                   | 0                 | 10                     | 943                  | 10              | 943           | 25.8%           |
| Tidelands Georgetown Memorial Hospital                   | Level II      | 0                   | 0                 | 5                      | 132                  | 5               | 132           | 7.2%            |
| Summerville Medical Center 2                             | Level II      | 0                   | 0                 | 12                     | 1,190                | 12              | 1,190         | 27.2%           |
| Trident Medical Center 2                                 | Level II      | 0                   | 0                 | 0                      | 1,516                | 0               | 1,516         | 0.0%            |
| Tidelands Waccamaw Community Hospital                    | Level II      | 0                   | 0                 | 2                      | 452                  | 2               | 452           | 61.9%           |
| SUBTOTAL                                                 |               | 16                  | 8,026             | 95                     | 18,556               | 111             | 26,582        | 65.6%           |
| GRAND TOTAL                                              |               | 112                 | 36,971            | 417                    | 71,616               | 529             | 108,587       | 56.2%           |

1 CON SC-16-42 issued August 11, 2016 for the addition of 8 intensive care bassinets for a total of 20 intensive care bassinets, not yet implemented.  
2 CON approved February 21, 2017 to consolidate Trident's and Summerville's obstetrics and neonatal services into one unit at the Summerville campus for a total of 12 intermediate bassinets at Summerville and 0 intermediate bassinets at Trident, pending appeal.

NICU BED NEED  
(Chapter 3)

| Counties by<br>Perinatal<br>Region | 2015<br>Births | 2014<br>Births | 2013<br>Births | 3 YR<br>Ave Births | 2015<br>15-44 Pop | 2014<br>15-44 Pop | 2013<br>15-44 Pop | 3 YR<br>AVE 15-44<br>Pop | Avg<br>Birth Rate | 2019<br>15-44 Pop | 2019<br>Proj Births | Proj Br<br>/ Avg Br | Existing<br>NICU Beds | Bed<br>Need |
|------------------------------------|----------------|----------------|----------------|--------------------|-------------------|-------------------|-------------------|--------------------------|-------------------|-------------------|---------------------|---------------------|-----------------------|-------------|
| <b>Region I</b>                    |                |                |                |                    |                   |                   |                   |                          |                   |                   |                     |                     |                       |             |
| Abbeville                          | 246            | 248            | 259            | 251                | 4337              | 4403              | 4401              | 4,380                    |                   | 4160              |                     |                     |                       |             |
| Anderson                           | 2254           | 2273           | 2286           | 2,271              | 36321             | 36070             | 35748             | 36,046                   |                   | 36970             |                     |                     |                       |             |
| Edgefield                          | 210            | 194            | 254            | 219                | 4097              | 4105              | 4180              | 4,127                    |                   | 3960              |                     |                     |                       |             |
| Greenville                         | 6421           | 6340           | 6039           | 6,267              | 98894             | 97396             | 96235             | 97,508                   |                   | 104090            |                     |                     |                       |             |
| Greenwood                          | 820            | 865            | 901            | 862                | 14143             | 14100             | 14372             | 14,205                   |                   | 13630             |                     |                     |                       |             |
| Laurens                            | 761            | 736            | 727            | 741                | 12256             | 12339             | 12319             | 12,305                   |                   | 12100             |                     |                     |                       |             |
| McCormick                          | 56             | 87             | 40             | 61                 | 1026              | 1090              | 1119              | 1,078                    |                   | 910               |                     |                     |                       |             |
| Oconee                             | 792            | 801            | 703            | 765                | 12243             | 12253             | 12356             | 12,284                   |                   | 12050             |                     |                     |                       |             |
| Pickens                            | 1254           | 1295           | 1160           | 1,236              | 25723             | 25574             | 25352             | 25,550                   |                   | 25410             |                     |                     |                       |             |
| Saluda                             | <u>251</u>     | <u>279</u>     | <u>211</u>     | <u>247</u>         | <u>3350</u>       | <u>3421</u>       | <u>3488</u>       | <u>3,420</u>             |                   | <u>3200</u>       |                     |                     |                       |             |
| <b>Total</b>                       | <b>13,065</b>  | <b>13,118</b>  | <b>12,580</b>  | <b>12,921</b>      | <b>212,390</b>    | <b>210,751</b>    | <b>209,570</b>    | <b>210,904</b>           | <b>0.06126</b>    | <b>216,480</b>    | <b>13,263</b>       | <b>1.026440</b>     | <b>19</b>             | <b>24</b>   |
| <b>Region II</b>                   |                |                |                |                    |                   |                   |                   |                          |                   |                   |                     |                     |                       |             |
| Cherokee                           | 676            | 700            | 637            | 671                | 10904             | 10927             | 10941             | 10,924                   |                   | 10760             |                     |                     |                       |             |
| Chester                            | 376            | 388            | 373            | 379                | 5738              | 5810              | 5964              | 5,837                    |                   | 5420              |                     |                     |                       |             |
| Spartanburg                        | 3560           | 3574           | 3495           | 3,543              | 58361             | 57663             | 57271             | 57,765                   |                   | 59750             |                     |                     |                       |             |
| Union                              | <u>314</u>     | <u>325</u>     | <u>310</u>     | <u>316</u>         | <u>4874</u>       | <u>4935</u>       | <u>4950</u>       | <u>4,920</u>             |                   | <u>4560</u>       |                     |                     |                       |             |
| <b>Total</b>                       | <b>4,926</b>   | <b>4,987</b>   | <b>4,815</b>   | <b>4,909</b>       | <b>79,877</b>     | <b>79,335</b>     | <b>79,126</b>     | <b>79,446</b>            | <b>0.06179</b>    | <b>80,490</b>     | <b>4,974</b>        | <b>1.013141</b>     | <b>13</b>             | <b>3</b>    |
| <b>Region III</b>                  |                |                |                |                    |                   |                   |                   |                          |                   |                   |                     |                     |                       |             |
| Aiken                              | 1997           | 1901           | 1749           | 1,882              | 30307             | 30281             | 30374             | 30,321                   |                   | 30590             |                     |                     |                       |             |
| Allendale                          | 77             | 103            | 91             | 90                 | 1431              | 1510              | 1541              | 1,494                    |                   | 1200              |                     |                     |                       |             |
| Bamberg                            | 122            | 148            | 161            | 144                | 2855              | 2903              | 2976              | 2,911                    |                   | 2590              |                     |                     |                       |             |
| Barnwell                           | 247            | 265            | 315            | 276                | 3914              | 3984              | 4054              | 3,984                    |                   | 3720              |                     |                     |                       |             |
| Calhoun                            | 150            | 126            | 139            | 138                | 2389              | 2406              | 2480              | 2,425                    |                   | 2280              |                     |                     |                       |             |
| Clarendon                          | 332            | 353            | 350            | 345                | 5500              | 5591              | 5686              | 5,592                    |                   | 5340              |                     |                     |                       |             |
| Fairfield                          | 213            | 195            | 239            | 216                | 3952              | 4020              | 4073              | 4,015                    |                   | 3650              |                     |                     |                       |             |
| Kershaw                            | 751            | 741            | 662            | 718                | 11404             | 11317             | 11215             | 11,312                   |                   | 11610             |                     |                     |                       |             |
| Lancaster                          | 1043           | 1005           | 919            | 989                | 15341             | 14881             | 14405             | 14,876                   |                   | 16330             |                     |                     |                       |             |
| Lee                                | 158            | 175            | 194            | 176                | 2868              | 2917              | 2943              | 2,909                    |                   | 2650              |                     |                     |                       |             |
| Lexington                          | 3205           | 3207           | 3250           | 3,221              | 54889             | 54192             | 53711             | 54,264                   |                   | 56850             |                     |                     |                       |             |
| Newberry                           | 455            | 461            | 453            | 456                | 6757              | 6776              | 6681              | 6,738                    |                   | 6660              |                     |                     |                       |             |
| Orangeburg                         | 1004           | 953            | 1121           | 1,026              | 17315             | 17547             | 17834             | 17,565                   |                   | 16100             |                     |                     |                       |             |
| Richland                           | 5010           | 4768           | 4798           | 4,859              | 94778             | 93698             | 92933             | 93,803                   |                   | 99440             |                     |                     |                       |             |
| Sumter                             | 1527           | 1459           | 1526           | 1,504              | 21006             | 21315             | 21403             | 21,241                   |                   | 20600             |                     |                     |                       |             |
| York                               | <u>2933</u>    | <u>2909</u>    | <u>2889</u>    | <u>2,910</u>       | <u>50917</u>      | <u>50056</u>      | <u>49026</u>      | <u>50,000</u>            |                   | <u>53920</u>      |                     |                     |                       |             |
| <b>Total</b>                       | <b>19,224</b>  | <b>18,769</b>  | <b>18,856</b>  | <b>18,950</b>      | <b>325,623</b>    | <b>323,394</b>    | <b>321,335</b>    | <b>323,451</b>           | <b>0.05859</b>    | <b>333,530</b>    | <b>19,540</b>       | <b>1.031162</b>     | <b>44</b>             | <b>20</b>   |
| <b>Region IV</b>                   |                |                |                |                    |                   |                   |                   |                          |                   |                   |                     |                     |                       |             |
| Chesterfield                       | 518            | 521            | 523            | 521                | 8272              | 8382              | 8466              | 8,373                    |                   | 7860              |                     |                     |                       |             |
| Darlington                         | 843            | 800            | 756            | 800                | 12823             | 12897             | 12936             | 12,885                   |                   | 12380             |                     |                     |                       |             |
| Dillon                             | 412            | 400            | 457            | 423                | 5934              | 5953              | 5982              | 5,956                    |                   | 5740              |                     |                     |                       |             |
| Florence <sup>1</sup>              | 1697           | 1763           | 1717           | 1,726              | 28196             | 28370             | 28256             | 28,274                   |                   | 28090             |                     |                     |                       |             |
| Horry                              | 3178           | 3051           | 3170           | 3,133              | 54279             | 53159             | 52311             | 53,250                   |                   | 57750             |                     |                     |                       |             |
| Marion                             | 382            | 404            | 397            | 394                | 5899              | 5943              | 5961              | 5,934                    |                   | 5590              |                     |                     |                       |             |
| Marlboro                           | 342            | 302            | 307            | 317                | 4477              | 4541              | 4554              | 4,524                    |                   | 4110              |                     |                     |                       |             |
| Williamsburg                       | <u>357</u>     | <u>342</u>     | <u>313</u>     | <u>337</u>         | <u>5582</u>       | <u>5591</u>       | <u>5649</u>       | <u>5,607</u>             |                   | <u>5180</u>       |                     |                     |                       |             |
| <b>Total</b>                       | <b>7,729</b>   | <b>7,583</b>   | <b>7,640</b>   | <b>7,651</b>       | <b>125,462</b>    | <b>124,836</b>    | <b>124,115</b>    | <b>124,804</b>           | <b>0.06130</b>    | <b>126,700</b>    | <b>7,767</b>        | <b>1.015189</b>     | <b>20</b>             | <b>5</b>    |
| <b>Region V</b>                    |                |                |                |                    |                   |                   |                   |                          |                   |                   |                     |                     |                       |             |
| Beaufort                           | 2057           | 2046           | 2077           | 2,060              | 29214             | 28850             | 28503             | 28,856                   |                   | 30,380            |                     |                     |                       |             |
| Berkeley                           | 2722           | 2650           | 2608           | 2,660              | 40707             | 40047             | 39410             | 40,055                   |                   | 44,040            |                     |                     |                       |             |
| Charleston                         | 4991           | 4961           | 4764           | 4,905              | 83035             | 81313             | 79918             | 81,422                   |                   | 88,920            |                     |                     |                       |             |
| Colleton                           | 482            | 449            | 439            | 457                | 6616              | 6669              | 6739              | 6,675                    |                   | 6,270             |                     |                     |                       |             |
| Dorchester                         | 1817           | 1907           | 1809           | 1,844              | 31296             | 30419             | 29954             | 30,556                   |                   | 33,830            |                     |                     |                       |             |
| Georgetown                         | 551            | 562            | 612            | 575                | 9512              | 9468              | 9481              | 9,487                    |                   | 9,260             |                     |                     |                       |             |
| Hampton                            | 213            | 220            | 225            | 219                | 3446              | 3504              | 3530              | 3,493                    |                   | 3,190             |                     |                     |                       |             |
| Jasper                             | <u>356</u>     | <u>379</u>     | <u>312</u>     | <u>349</u>         | <u>4762</u>       | <u>4686</u>       | <u>4726</u>       | <u>4,890</u>             |                   | <u>4,890</u>      |                     |                     |                       |             |
| <b>Total</b>                       | <b>13,189</b>  | <b>13,174</b>  | <b>12,846</b>  | <b>13,070</b>      | <b>208,588</b>    | <b>204,956</b>    | <b>202,261</b>    | <b>205,268</b>           | <b>0.06367</b>    | <b>220,780</b>    | <b>14,057</b>       | <b>1.075568</b>     | <b>16</b>             | <b>30</b>   |
| <b>Statewide</b>                   | <b>58,133</b>  | <b>57,631</b>  | <b>56,737</b>  | <b>57,500</b>      | <b>951,940</b>    | <b>943,272</b>    | <b>936,407</b>    | <b>943,873</b>           |                   | <b>977,980</b>    | <b>59,601</b>       |                     | <b>112</b>            | <b>82</b>   |

<sup>1</sup> CON SC-16-42 issued August 11, 2016 for the addition of 8 intensive bassinets to McLeod Regional Medical Center of the Pee Dee for a total of 20 intensive bassinets.

## **CHAPTER 4**

### **PSYCHIATRIC SERVICES**

#### **COMMUNITY PSYCHIATRIC BEDS**

Inpatient psychiatric services are those services provided to patients who are admitted to institutions for the evaluation, diagnosis and treatment of mental, emotional or behavioral disorders. Services may be provided in either psychiatric units of general hospitals or freestanding psychiatric hospitals.

Special units for children, adolescents and geriatric patients have been developed throughout the State. If any additional beds are approved, they must come from the calculated psychiatric bed need in this Plan. These specialty psychiatric services should be identifiable units with sufficient space to have available areas for sleeping, dining, education, recreation, occupational therapy and offices of evaluation and therapy. The unit should be staffed with an appropriate multi-disciplinary care team of psychiatrists, psychologists, social workers, nurses, occupation therapists, recreational therapists, and psychiatric technicians. Other consultants should be available as needed.

The Psychiatric Programs Chart is located at the end of this Chapter.

#### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. Need projections are based on psychiatric service areas. The service areas are consistent for psychiatric services, inpatient alcohol and drug abuse facilities, and inpatient residential treatment facilities for children and adolescents.
2. The methodology for calculating psychiatric bed need is as follows:
  - a. For the service area, take the greater of the service area utilization rate or the statewide utilization rate for psychiatric beds by age cohort. The statewide utilization rate for each age cohort will be used for those service areas where no beds currently exist.
  - b. Multiply the applicable utilization rate by the projected population for the year 2022 for each age cohort (where such data is available) and divide by 365 to obtain a projected average daily census by age cohort.
  - c. Take the sum of average daily censuses by age cohort and divide by the target occupancy rate of 70% to determine the number of beds needed in the service area.

- d. The number of additional beds needed or excess beds for the service area is obtained by subtracting the number of existing beds from the bed need.
3. Should the service area show a need for additional beds, a general acute care hospital which has no licensed or CON-approved psychiatric beds may be approved for the maximum of the actual projected bed need or up to 20 additional beds ("20 Bed Rule") to establish an economical unit ("Unit"). An applicant seeking more beds than are projected may not use such beds for the establishment of a specialty psychiatric unit. Any beds sought in excess of the projected bed need in the service area must be used for the provision of general adult psychiatric services in order to address the growing number of psychiatric patients being held in hospital emergency departments. Finally, although more than one general acute care hospital per service area may apply for beds under this provision, the Department may approve no more than nineteen (19) beds, in any combination, beyond the need shown in this Plan for each service area.
4. In the absence of a projected need for beds in a psychiatric service area, an existing facility can apply to add up to 8 additional beds, given that it has achieved an occupancy rate of at least 70% as reported on the most recent Joint Annual Report ("JAR").
5. Priority should be given to excess general hospital beds that can be economically and cost effectively converted for use as a specialized psychiatric unit over the construction of new beds, if such beds will be accessible to the target population.

The Psychiatric Bed Need Chart is located at the end of this Chapter.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Community Need Documentation;
2. Distribution (Accessibility);
3. Acceptability;
4. Record of the Applicant;
5. Ability of the Applicant to Complete the Project;
6. Cost Containment; and
7. Staff Resources.

Psychiatric beds are planned for and located within sixty minutes' travel time for the majority of the residents of the State. In addition, current utilization and population growth are

factored into the methodology for determining psychiatric bed need. The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for these services.

## **STATE MENTAL HEALTH FACILITIES**

### **Psychiatric Hospital Beds**

DMH operates a variety of psychiatric facilities. DMH has analyzed the patient population and plans to provide psychiatric services in the least restrictive environment, maintain patients in the community and keep hospitalization to a minimum. Since DMH cannot refuse any patient assigned to them by a court, renovation, replacement and expansion of the component programs should be allowed as long as the overall psychiatric hospital complement is maintained or reduced. As long as DMH does not add any additional beds over the 3,720 beds that were in existence on July 1, 1988, any changes in facility bed capacity *would not require Certificate of Need review.*

### **Local Inpatient Crisis Stabilization Beds**

DMH reports there are an insufficient number of adult inpatient psychiatric beds in a number of regions of the State. As a result of this situation, significant numbers of persons in a behavioral crisis are being held in hospital emergency rooms for inordinate periods of time until an appropriate inpatient psychiatric bed becomes available. These emergency room patients may not have a source of funding.

DMH has attempted to alleviate this problem by means of its "Crisis Stabilization Program." Within available funding limits, the "Crisis Stabilization Program" is to provide short-term emergency stabilization of psychiatric patients in the local community, by use of both local hospital beds and non-hospital residential programs, such as community residential care facilities, for those patients who do not require a hospital level of care. For patients needing stabilization in a hospital, subject to available funding, DMH contracts with one or more local hospitals willing to admit indigent patients assessed by DMH as needing acute care in return for a daily rate for a defined period. These patients can be cared for in licensed general acute care beds or licensed psychiatric beds.

To assist in alleviating this problem, the following policies will apply:

- a. *A Certificate of Need is not required* to convert existing acute care beds or existing psychiatric beds to create Crisis Stabilization services pursuant to a contract with DMH.
- b. *A Certificate of Need is required* to add psychiatric beds pursuant to a contract with DMH to provide Crisis Stabilization services. These additional beds could

be approved if the Plan indicates a need for additional beds or some small number (ten beds or less) of additional beds could be approved for crisis stabilization patients only. These beds would not be restricted to any specific age group except that the patients would have to be over age 18.

- c. An application for a Certificate of Need for Crisis Stabilization patients only must be accompanied by information from DMH to verify this additional need, such as the number of patients currently awaiting treatment, the estimated average length of stay, the pay source for the patients, the number of patients emergently admitted to DMH hospitals over the past year from the area, the number of crisis patients that are expected to require this service annually, and other information to justify these additional psychiatric beds. In addition, DMH will supply verification that it made contact with all hospitals in the county and contiguous counties to notify them of the potential for adding some psychiatric beds to the area. The hospital seeking the Certificate of Need will provide the necessary care for these individuals referred by DMH and may be reimbursed for the care of the patients if there are sufficient funds, but the hospital must identify the minimum number of indigent (no source of funding) patient days it will provide to patients referred by DMH. Should the contract with DMH terminate for any reason or should the hospital fail to provide care to the patients referred from DMH, the license for these beds will be voided.

If justified by DMH, the Department will consider converting inpatient psychiatric beds to other levels of care provided that alternative community-based resources are not available. Patients appropriate for de-institutionalization should be discharged when the appropriate community support services are in place.

**PSYCHIATRIC PROGRAMS**  
**(Chapter 4)**

| Facility by Region                           | County      | Beds | 2015     |            |
|----------------------------------------------|-------------|------|----------|------------|
|                                              |             |      | Pt. Days | Occup Rate |
| Region I                                     |             |      |          |            |
| AnMed Health Medical Center                  | Anderson    | 38   | 6,368    | 45.9%      |
| Carolina Center Behavioral Health 1          | Greenville  | 117  | 29,144   | 68.2%      |
| GHS Marshall I. Pickens Hospital 2           | Greenville  | 65   | 11,913   | 50.2%      |
| Mary Black Health System - Spartanburg       | Spartanburg | 15   | 2,413    | 44.1%      |
| Self Regional Healthcare                     | Greenwood   | 32   | 3,980    | 34.1%      |
| Spartanburg Medical Center                   | Spartanburg | 56   | 6,816    | 33.3%      |
| Springbrook Behavioral Health 3              | Greenville  | 56   | 11,395   | 55.7%      |
| Region II                                    |             |      |          |            |
| Aiken Regional Medical Center                | Aiken       | 44   | 12,919   | 80.4%      |
| Palmetto Health Baptist                      | Richland    | 55   | 10,688   | 53.2%      |
| Palmetto Health Richland                     | Richland    | 52   | 12,902   | 68.0%      |
| Piedmont Medical Center                      | York        | 20   | 4,201    | 57.5%      |
| Rebound Behavioral Health                    | Lancaster   | 24   | 0        | 0.0%       |
| Springs Memorial Hospital                    | Lancaster   | 12   | 239      | 5.5%       |
| Three Rivers Behavioral Health 4             | Lexington   | 105  | 30,618   | 79.9%      |
| Region III                                   |             |      |          |            |
| Carolinas Hospital System - Cedar Tower      | Florence    | 12   | 0        | 0.0%       |
| South Strand Medical Center 5                | Horry       | 20   |          |            |
| Marlboro Park Hospital 6                     |             |      |          |            |
| Lighthouse Behavioral Health Center          | Horry       | 60   | 17,974   | 82.1%      |
| McLeod Medical Center - Darlington           | Darlington  | 23   | 6,124    | 72.9%      |
| Region IV                                    |             |      |          |            |
| Beaufort Memorial Hospital 7                 | Beaufort    | 14   | 2,610    | 51.1%      |
| Colleton Medical Center                      | Colleton    | 19   | 5,085    | 73.3%      |
| Medical University SC                        | Charleston  | 82   | 28,011   | 93.6%      |
| Palmetto Lowcountry Behavioral               | Charleston  | 92   | 18,186   | 54.2%      |
| Trident Medical Center 7                     | Charleston  | 17   | 6,079    | 98.0%      |
| Regional Medical Center - O'burg & Calhoun 7 | Orangeburg  | 15   | 1,651    | 30.2%      |
| Government Facilities                        |             |      |          |            |
| G. Werber Bryan Psychaitric Hospital 8       | Richland    | 530  | 51,200   | 26.5%      |
| Gilliam Psychiatric Hospital 9               | Richland    | 87   | --       | 0.0%       |

|                                                 |            |             |                |              |
|-------------------------------------------------|------------|-------------|----------------|--------------|
| Patrick B. Harris Psychiatric Hospital <b>8</b> | Anderson   | 200         | 40,334         | 55.3%        |
| William J McCord Adolescent Treatment           | Orangeburg | 15          | N/R            | N/R          |
| William S. Hall Psychiatric Institute <b>6</b>  | Richland   | 68          | 5,663          | 22.8%        |
| <b>Total</b>                                    |            | <b>1045</b> | <b>229,316</b> | <b>60.1%</b> |

- 1** SC-15-35 issued 9/16/2015 for the addition of 8 psychiatric beds for a total of 117 psychiatric
- 2** SC-17-07 issued 2/16/2017 for the addition of 19 psychiatric beds for a total of 65 psychiatric beds.
- 3** SC-17-08 issued 2/16/2017 for the addition of 18 psychiatric beds for a total of 56 psychiatric beds
- 4** SC-16-12 issued 3/18/2016 for the addition of 24 psychiatric beds for a total of 105 psychiatric beds.
- 5** CON SC-16-35 issued 8/1/2016 for the establishment of a 20 bed psychiatric program.
- 6** Facility has closed.
- 7** Age cohorts not adequately reported.
- 8** State facility not operating all its licensed beds. Their utilization does not impact calculation of n
- 9** Did not submit 2015 JAR.

**PSYCHIATRIC BED NEED**  
(Chapter 4)

| Service Area                                                   | Age<br>Cat   | 2015<br>Pop      | 2022<br>Pop      | Existing<br>Beds | 2015<br>PT Days | Proj<br>ADC | Occup<br>Factor | Bed<br>Need<br>(Use) | + / -      | Bed<br>Need<br>(SW) | + / -       | Bed<br>Need |
|----------------------------------------------------------------|--------------|------------------|------------------|------------------|-----------------|-------------|-----------------|----------------------|------------|---------------------|-------------|-------------|
| Anderson, Oconee                                               | <18          | 60263            | 59410            |                  | 0               |             |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 159668           | 161510           |                  | 5121            | 14          |                 |                      |            |                     |             |             |
|                                                                | +65          | 50474            | 60580            |                  | 1247            | 4           |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>270,405</b>   | <b>281,500</b>   | <b>38</b>        | <b>6,368</b>    | <b>18</b>   | <b>0.70</b>     | <b>26</b>            | <b>-12</b> | <b>52</b>           | <b>14</b>   | <b>14</b>   |
| Greenville, Pickens                                            | <18          | 138937           | 149270           |                  | 3673            | 11          |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 383988           | 407480           |                  | 36564           | 106         |                 |                      |            |                     |             |             |
|                                                                | +65          | 90629            | 117760           |                  | 12215           | 43          |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>613,554</b>   | <b>674,510</b>   | <b>238</b>       | <b>52,452</b>   | <b>161</b>  | <b>0.70</b>     | <b>229</b>           | <b>-9</b>  | <b>124</b>          | <b>-114</b> | <b>-9</b>   |
| Cherokee, Spartanburg, Union                                   | <18          | 89203            | 89960            |                  | 0               |             |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 232396           | 235580           |                  | 2923            | 8           |                 |                      |            |                     |             |             |
|                                                                | +65          | 59674            | 72310            |                  | 6306            | 21          |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>381,273</b>   | <b>397,850</b>   | <b>71</b>        | <b>9,229</b>    | <b>29</b>   | <b>0.70</b>     | <b>42</b>            | <b>-29</b> | <b>73</b>           | <b>2</b>    | <b>2</b>    |
| Chester, Lancaster, York                                       | <18          | 87982            | 92390            |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 225405           | 248390           |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | +65          | 55917            | 78420            |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>369,304</b>   | <b>419,200</b>   | <b>56</b>        | <b>4,440</b>    | <b>14</b>   | <b>0.70</b>     | <b>20</b>            | <b>-36</b> | <b>77</b>           | <b>21</b>   | <b>21</b>   |
| Abbeville, Edgefield, Greenwood,<br>Laurens, McCormick, Saluda | <18          | 46930            | 44490            |                  | 0               |             |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 131027           | 123220           |                  | 2695            | 7           |                 |                      |            |                     |             |             |
|                                                                | +65          | 39709            | 46630            |                  | 1285            | 4           |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>217,666</b>   | <b>214,340</b>   | <b>32</b>        | <b>3,980</b>    | <b>11</b>   | <b>0.70</b>     | <b>16</b>            | <b>-16</b> | <b>39</b>           | <b>7</b>    | <b>7</b>    |
| Fairfield, Kershaw, Lexington,<br>Newberry, Richland           | <18          | 182593           | 190410           |                  | 4391            | 13          |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 519977           | 538960           |                  | 38928           | 111         |                 |                      |            |                     |             |             |
|                                                                | +65          | 110676           | 145250           |                  | 10889           | 39          |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>813,246</b>   | <b>874,620</b>   | <b>212</b>       | <b>54,208</b>   | <b>162</b>  | <b>0.70</b>     | <b>232</b>           | <b>20</b>  | <b>160</b>          | <b>-52</b>  | <b>20</b>   |
| Darlington, Florence, Marion                                   | <18          | 56342            | 53840            |                  | 77              | 0           |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 143188           | 136210           |                  | 5772            | 15          |                 |                      |            |                     |             |             |
|                                                                | +65          | 38665            | 45810            |                  | 275             | 1           |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>238,195</b>   | <b>235,860</b>   | <b>35</b>        | <b>6,124</b>    | <b>16</b>   | <b>0.70</b>     | <b>23</b>            | <b>-12</b> | <b>43</b>           | <b>8</b>    | <b>8</b>    |
| Chesterfield, Dillon, Marlboro                                 | <18          | 24240            | 22180            |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 63816            | 58540            |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | +65          | 16689            | 19350            |                  | 0               |             |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>104,745</b>   | <b>100,070</b>   | <b>0</b>         | <b>0</b>        | <b>0</b>    | <b>0.70</b>     | <b>0</b>             | <b>0</b>   | <b>18</b>           | <b>18</b>   | <b>18</b>   |
| Clarendon, Lee, Sumter                                         | <18          | 36997            | 34370            |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 95982            | 89100            |                  | 0               |             |                 |                      |            |                     |             |             |
|                                                                | +65          | 26172            | 31240            |                  | 0               |             |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>159,151</b>   | <b>154,710</b>   | <b>0</b>         | <b>0</b>        | <b>0</b>    | <b>0.70</b>     | <b>0</b>             | <b>0</b>   | <b>28</b>           | <b>28</b>   | <b>28</b>   |
| Georgetown, Horry, Williamsburg                                | <18          | 78057            | 80700            |                  | 1717            | 5           |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 237594           | 254680           |                  | 12117           | 36          |                 |                      |            |                     |             |             |
|                                                                | +65          | 87381            | 132180           |                  | 4140            | 17          |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>403,032</b>   | <b>467,560</b>   | <b>80</b>        | <b>17,974</b>   | <b>58</b>   | <b>0.70</b>     | <b>82</b>            | <b>2</b>   | <b>86</b>           | <b>6</b>    | <b>6</b>    |
| Bamberg, Calhoun, Orangeburg                                   | <18          | 25997            | 24480            |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 71242            | 61780            |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | +65          | 21630            | 25040            |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>118,869</b>   | <b>111,300</b>   | <b>15</b>        | <b>1,651</b>    | <b>4</b>    | <b>0.70</b>     | <b>6</b>             | <b>-9</b>  | <b>20</b>           | <b>5</b>    | <b>5</b>    |
| Allendale, Beaufort, Hampton,<br>Jasper                        | <18          | 47559            | 47730            |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 135048           | 140680           |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | +65          | 54288            | 77250            |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>236,895</b>   | <b>265,660</b>   | <b>14</b>        | <b>2,610</b>    | <b>8</b>    | <b>0.70</b>     | <b>11</b>            | <b>-3</b>  | <b>49</b>           | <b>35</b>   | <b>35</b>   |
| Berkeley, Charleston, Colleton,<br>Dorchester                  | <18          | 174664           | 187710           |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 498283           | 555010           |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | +65          | 109310           | 155460           |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>782,257</b>   | <b>898,180</b>   | <b>210</b>       | <b>57,361</b>   | <b>180</b>  | <b>0.70</b>     | <b>258</b>           | <b>48</b>  | <b>165</b>          | <b>-45</b>  | <b>48</b>   |
| Aiken, Barnwell                                                | <18          | 41824            | 40650            |                  | 3220            | 9           |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 112149           | 110380           |                  | 7840            | 21          |                 |                      |            |                     |             |             |
|                                                                | +65          | 33581            | 42080            |                  | 1859            | 6           |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>187,554</b>   | <b>193,110</b>   | <b>44</b>        | <b>12,919</b>   | <b>36</b>   | <b>0.70</b>     | <b>52</b>            | <b>8</b>   | <b>35</b>           | <b>-9</b>   | <b>8</b>    |
| <b>Statewide Totals</b>                                        | <18          | 1,091,588        | 1117590          |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | 18-64        | 3,009,763        | 3,121,520        |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | +65          | 794,795          | 1,049,360        |                  |                 |             |                 |                      |            |                     |             |             |
|                                                                | <b>TOTAL</b> | <b>4,896,146</b> | <b>5,288,470</b> | <b>1045</b>      | <b>229,316</b>  | <b>679</b>  | <b>0.000183</b> | <b>997</b>           |            | <b>969</b>          |             | <b>211</b>  |

## **CHAPTER 5**

### **REHABILITATION FACILITIES**

A Rehabilitation Facility is operated for the primary purpose of providing comprehensive physical rehabilitation services through an intensive, coordinated team approach for patients with severe physical ailments. These facilities should be located where an extensive variety of professionals representing medical, psychological, social, and vocational rehabilitation evaluation and services are available. These beds are viewed as being comprehensive in nature and not limited only to a particular service or specialty. CMS identifies 13 specific conditions for which facilities must treat 60% of their patients ("the compliance threshold") in order to qualify for Medicare reimbursement. Certain comorbidities as specified in 42 CFR 412.29(b)(1) must be used to determine the compliance threshold.

Most general hospitals and other health care facilities offer physical rehabilitation services such as physical therapy, occupational therapy, speech therapy, or occupational therapy without the involvement of a formal interdisciplinary program. In addition, some hospitals have consolidated their rehabilitation services into a single unit to improve the coordination of care for acute patients in their facilities. These consolidations are intended to improve the quality of care for patients currently being treated in the facility and are not considered to be providing comprehensive physical rehabilitation services as defined in this section of the Plan.

The Rehabilitation Programs Chart is located at the end of this Chapter.

#### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. The need for beds is calculated based on rehabilitation service areas.
2. The methodology takes the greater of the actual utilization of the facilities in the service area or the statewide average number of beds per 1,000 of the 65+ population cohort to project need.
3. For service areas without existing rehabilitation units and related utilization data, 75% of the overall state use rate was used in the projections.

The Rehabilitation Bed Need Chart is located at the end of this Chapter.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Community Need Documentation;
2. Distribution (Accessibility);
3. Projected Revenues;
4. Projected Expenses; and
5. Cost Containment

Rehabilitation facilities are now located throughout the state and are available within approximately sixty (60) minutes' travel time for the majority of residents. Such facilities should be located where an extensive variety of health care professionals are available. The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for this service.

#### Statewide Programs

The South Carolina Vocational Rehabilitation Center operates a 30-bed facility in West Columbia to serve the vocational training needs of the disabled.

**REHABILITATION PROGRAMS  
(Chapter 5)**

|                                                 |             | 2015 |          |            |
|-------------------------------------------------|-------------|------|----------|------------|
| Facility by Region                              | County      | Beds | Pt. Days | Occup Rate |
| Region I                                        |             |      |          |            |
| AnMed Health Rehab Hospital                     | Anderson    | 60   | 18,294   | 83.5%      |
| Roger C. Peace (GHS Greenville Memorial)        | Greenville  | 53   | 11,572   | 59.8%      |
| St. Francis - Downtown                          | Greenville  | 19   | 4,775    | 68.9%      |
| Greenwood Regional Rehab Hospital               | Greenwood   | 42   | 10,628   | 69.3%      |
| Mary Black Health System - Spartanburg          | Spartanburg | 18   | 3,477    | 52.9%      |
| Spartanburg Rehabilitation Institute            | Spartanburg | 40   | 10,038   | 68.8%      |
| Region II                                       |             |      |          |            |
| Aiken Regional Medical Centers 1                | Aiken       | 14   | 0        | 0.0%       |
| Midlands Regional Rehabilitation Hospital 2     | Kershaw     | 40   | 0        | 0.0%       |
| HealthSouth Columbia                            | Richland    | 96   | 23,899   | 68.2%      |
| Palmetto Health Children's Hospital 3           | Richland    | 13   | 0        | 0.0%       |
| HealthSouth Rock Hill                           | York        | 50   | 15,005   | 82.2%      |
| Region III                                      |             |      |          |            |
| Carolinas Hospital System - Cedar Tower         | Florence    | 42   | 6,048    | 39.5%      |
| HealthSouth Florence                            | Florence    | 88   | 15,449   | 48.1%      |
| Tidelands Waccamaw Community Hospital 4 & 6     | Georgetown  | 29   | 11,984   | 113.2%     |
| Grand Strand Medical Center 5                   | Horry       | 24   | 0        | 0.0%       |
| Myrtle Beach Rehabilitation Hospital 6          | Horry       | 46   | 0        | 0.0%       |
| Region IV                                       |             |      |          |            |
| Beaufort Memorial Hospital                      | Beaufort    | 14   | 2,579    | 50.5%      |
| HealthSouth Lowcountry 7                        | Beaufort    | 38   | 0        | 0.0%       |
| HealthSouth Charleston                          | Charleston  | 49   | 14,690   | 82.1%      |
| Roper Hospital 8                                | Charleston  | 66   | 16,179   | 67.2%      |
| Trident Medical Center 9                        | Charleston  | 14   | 0        | 0.0%       |
| Regional Medical Center of Orangeburg & Calhoun | Orangeburg  | 24   | 4,680    | 53.4%      |
| TOTAL                                           |             | 879  | 169,297  | 52.8%      |

**1** CON SC-16-200 issued 12/28/16 for the establishment of a new 14 bed rehabilitation program, not yet implemented.

**2** CON SC-16-183 issued 12/15/16 for the construction of a new 40 bed Comprehensive Rehabilitation Hospital, not yet implemented.

**3** CON SC-16-43 issued 8/11/16 for the establishment of a new 13 bed rehabilitation unit, not yet implemented.

**4** CON SC-16-37 issued 8/10/16 for the addition of 17 rehabilitation beds for a total of 60 rehabilitation beds, not yet implemented.

**5** CON SC-17-17 issued 4/6/17 for the establishment of a 24 bed rehabilitation unit, not yet implemented.

**6** CON SC-17-18 issued 4/6/17 for construction of a new 46 bed Comprehensive Rehabilitation Hospital, through the transfer of 31 rehabilitation beds from Tidelands Waccamaw and an additional 15 rehabilitation beds, not yet implemented.

**7** CON SC-16-44 issued 8/11/16 for the construction of a new 38 bed Comprehensive Rehabilitation Hospital, not yet implemented.

**8** CON SC-16-75 issued 9/23/16 for the addition of 14 rehabilitation beds for a total of 66 rehabilitation beds, not yet implemented.

**9** CON approved 9/26/16 for the establishment of a 14 bed rehabilitation unit, pending appeal.

| Service Area                                                                  | REHABILITATION BED NEED<br>(Chapter 5) |                    |             |             |                  |                 |             |                 |                      |       |                     |       |      |
|-------------------------------------------------------------------------------|----------------------------------------|--------------------|-------------|-------------|------------------|-----------------|-------------|-----------------|----------------------|-------|---------------------|-------|------|
|                                                                               | >65<br>2015<br>Pop                     | >65<br>2022<br>Pop | 2015<br>Pop | 2022<br>Pop | Existing<br>Beds | 2015<br>PT Days | Proj<br>ADC | Occup<br>Factor | Bed<br>Need<br>(Use) | + / - | Bed<br>Need<br>(SW) | + / - | Need |
| Anderson, Oconee                                                              | 50,474                                 | 60,580             | 270,405     | 281,500     | 60               | 15,584          | 44          | 0.70            | 63                   | 3     | 67                  | 7     | 7    |
| Greenville, Pickens                                                           | 90,629                                 | 117,760            | 316,383     | 328,530     | 72               | 7,097           | 20          | 0.70            | 29                   | -43   | 130                 | 58    | 58   |
| Cherokee, Spartanburg, Union                                                  | 59,674                                 | 72,310             | 381,273     | 397,850     | 58               | 12,270          | 35          | 0.70            | 50                   | -8    | 80                  | 22    | 22   |
| Chester, Lancaster, York                                                      | 55,917                                 | 78,420             | 369,304     | 419,200     | 50               | 15,005          | 47          | 0.70            | 67                   | 17    | 87                  | 37    | 37   |
| Abbeville, Edgefield, Greenwood,<br>Laurens, McCormick, Saluda                | 39,709                                 | 46,630             | 217,666     | 214,340     | 42               | 10,628          | 29          | 0.70            | 41                   | -1    | 52                  | 10    | 10   |
| Fairfield, Lexington, Newberry, Richland <sup>1</sup>                         | 99,933                                 | 131,930            | 749,643     | 808,760     | 109              | 23,899          | 71          | 0.70            | 101                  | -8    | 146                 | 37    | 37   |
| Chesterfield, Darlington, Dillon, Florence,<br>Marion, Marlboro, Williamsburg | 61,387                                 | 72,300             | 376,516     | 308,080     | 130              | 21,497          | 48          | 0.70            | 69                   | -61   | 80                  | -50   | -50  |
| Clarendon, Kershaw <sup>2</sup> , Lee, Sumter                                 | 36,915                                 | 44,560             | 222,754     | 220,570     | 40               | 0               | 0           | 0.75            | 0                    | -40   | 49                  | 9     | 9    |
| Georgetown, Horry <sup>3</sup>                                                | 81,348                                 | 125,040            | 370,497     | 437,580     | 99               | 11,984          | 39          | 0.70            | 56                   | -43   | 138                 | 39    | 39   |
| Aiken <sup>4</sup> , Allendale, Bamberg, Barnwell,<br>Calhoun, Orangeburg     | 56,845                                 | 69,020             | 315,856     | 312,640     | 38               | 4,680           | 13          | 0.70            | 19                   | -19   | 76                  | 38    | 38   |
| Beaufort <sup>5</sup> , Hampton, Jasper                                       | 52,654                                 | 75,350             | 227,462     | 257,430     | 52               | 2,579           | 8           | 0.70            | 11                   | -41   | 83                  | 31    | 31   |
| Berkeley, Charleston <sup>6</sup> , Colleton,<br>Dorchester                   | 109,310                                | 155,460            | 782,257     | 898,180     | 129              | 30,869          | 97          | 0.70            | 139                  | 10    | 172                 | 43    | 43   |
| Statewide Totals                                                              | 794,795                                | 1,049,360          | 4,600,016   | 4,884,660   | 879              | 156,092         | 565         | 1.10595         | 511                  |       | 1,161               |       | 282  |

<sup>1</sup> Service Area bed count includes SC-16-43 for 13 rehabilitation beds issued to Palmetto Health Children's Hospital on 8/11/16, not yet implemented.

<sup>2</sup> Service Area bed count includes SC-16-183 for 40 rehabilitation beds issued to Midlands Regional Rehabilitation Hospital on 12/15/16, not yet implemented.

<sup>3</sup> Service Area bed count reflects SC-16-37 for 17 rehabilitation beds issued to Tidelands Waccamaw Community Hospital on 8/10/16; SC-17-17 for 24 rehabilitation beds issued to Grand Strand Medical Center and 15 new rehabilitation beds issued to Myrtle Beach Rehabilitation Hospital on 4/6/17, all of which are not yet implemented.

<sup>4</sup> Service Area bed count includes SC-16-200 for 14 rehabilitation beds issued to Aiken Regional Medical Centers on 12/28/16, not yet implemented.

<sup>5</sup> Service Area bed count includes SC-16-44 for 38 rehabilitation beds issued to HealthSouth Lowcountry on 8/11/16.

<sup>6</sup> Service Area bed count includes CON approval for 14 rehabilitation beds issued Trident Medical Center on 9/26/16, pending appeal.

## **CHAPTER 6**

### **ALCOHOL AND DRUG ABUSE FACILITIES**

There are six types of licensed substance abuse treatment facilities in South Carolina. These are (1) outpatient facilities, (2) social detoxification centers, (3) freestanding medical detoxification facilities, (4) residential treatment programs, (5) inpatient treatment services, and (6) opioid (narcotic) treatment programs.

#### **OUTPATIENT FACILITIES**

An outpatient facility provides treatment, care and services to individuals dependent upon or addicted to psychoactive substances and their families based on an individual treatment plan in a nonresidential setting. The length and intensity of outpatient treatment varies according to the severity of the individual's illness and response to treatment. There are currently 71 licensed "Outpatient Facilities that Treat Individuals for Psychoactive Substance Abuse or Dependence" in South Carolina, with a total of 98 locations.

*A Certificate of Need is not required for outpatient facilities as described above.*

#### **SOCIAL DETOXIFICATION FACILITIES**

A social detoxification facility provides supervised withdrawal from alcohol or other drugs in which neither the client's level of intoxication nor physical condition is severe enough to warrant direct medical supervision or the use of medications to assist in withdrawal, but which maintains medical backup and provides a structured program of counseling, if appropriate, educational services, and referral for further rehabilitation. It provides 24-hour-a-day observation of the client until discharge.

*A Certificate of Need is not required for a social detoxification facility.*

#### **FREESTANDING MEDICAL DETOXIFICATION FACILITIES**

A freestanding medical detoxification facility is a short-term residential facility, separate from an inpatient treatment facility, providing for medically supervised withdrawal from psychoactive substance-induced intoxication, with the capacity to provide screening for medical complications of alcoholism and/or drug abuse, a structured program of counseling, if appropriate, and referral for further rehabilitation. Detoxification facilities are envisioned as being physically distinct from inpatient treatment facilities, although there are no prohibitions against an inpatient facility providing detoxification services to its clients as needed. There are currently 4 freestanding medical detoxification facilities located in the State, operated by local County Alcohol and Drug Abuse Agencies.

The Freestanding Medical Detoxification Facilities Chart is located at the end of this Chapter.

#### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. Medical detoxification services are allocated by Department region.
2. Facilities can be licensed for a maximum of sixteen (16) beds in order to meet federal requirements.
3. Because a minimum of ten (10) beds is needed for a medical detoxification program, a ten (10) bed unit may be approved in any service area without an existing detoxification unit, provided the applicant can document the need.
4. Additional facilities are needed for the services to be accessible within sixty (60) minutes' travel time for the majority of state residents.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following Project Review Criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Distribution (Accessibility);
2. Projected Revenues;
3. Projected Expenses;
4. Ability to Complete the Project;
5. Cost Containment; and
6. Staff Resources.

Additional facilities are needed for the services to be accessible within sixty (60) minutes' travel time for the majority of state residents. The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for this service.

#### **RESIDENTIAL TREATMENT PROGRAM FACILITIES**

A residential treatment program facility is a 24-hour facility offering an organized service in a residential setting, which is designed to improve the client's ability to structure and organize the tasks of daily living and recovery through planned clinical activities, counseling, and clinical monitoring in order to promote successful involvement or re-involvement in regular, productive, daily activity, and, as indicated, successful reintegration into family living. Residential treatment programs utilize a multi-disciplinary staff for clients whose biomedical

and emotional/behavioral problems are severe enough to require residential services and who are in need of a stable and supportive environment to aid in their recovery and transition back into the community. Twenty-four hour observation, monitoring, and treatment shall be available.

*A Certificate of Need is not required for a Residential Treatment Program.*

## **INPATIENT TREATMENT FACILITIES**

An inpatient treatment facility is a short-term treatment service for persons who are in need of an organized intensive program of alcohol and/or drug rehabilitation, but who are without serious debilitating medical complications. These facilities may provide detoxification for their patients, as needed, in the inpatient treatment beds. These facilities are licensed either as a specialized hospital or as part of a hospital. For reference purposes only, these facilities are also subject to compliance with Regulation 61-16.

The Inpatient Treatment Facilities Chart is located at the end of this Chapter.

## **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. Need projections are calculated by service area. Because patients in need of alcohol and/or drug abuse treatment frequently require psychiatric treatment services as well, the inpatient treatment service areas mirror the psychiatric service areas (e.g., Anderson/Oconee, Greenville/Pickens, etc.) to facilitate planning in a manner that recognizes the comorbidity of this patient population.
2. The methodology for calculating inpatient treatment bed need is as follows:
  - a. For the service area, take the greater of the service area utilization rate or the statewide utilization rate for inpatient treatment beds by age cohort. The statewide utilization rate for each age cohort will be used for those service areas where no beds currently exist.
  - b. Multiply the applicable utilization rate by the projected population for the year 2022 for each age cohort (where such data is available) and divide by 365 to obtain a projected average daily census by age cohort.
  - c. Take the sum of average daily censuses by age cohort and divide by the target occupancy rate of 75% to determine the number of beds needed in the service area.
  - d. The number of additional beds needed or excess beds for the service area is obtained by subtracting the number of existing beds from the bed need.

3. Because a minimum of 20 beds is needed for an inpatient program, a 20-bed unit may be approved in a service area that does not have any existing beds provided the applicant can document the need.
4. In the absence of a projected need in the service area, an existing inpatient treatment facility can apply to add up to 8 additional inpatient treatment beds if it has achieved an occupancy rate of at least 70% as reported on its most recent Joint Annual Report ("JAR").
5. Inpatient treatment facilities are physically distinct from freestanding detoxification centers. Applicants may not combine the bed need for freestanding detoxification with the bed need for inpatient treatment in order to generate a higher bed need for an inpatient facility. There are no prohibitions against an inpatient facility providing detoxification services to its clients as needed, but the bed need projections refer to two distinct treatment modes that cannot be commingled.
6. The establishment of a regional treatment center to serve more than a single service area may be proposed in order to improve access to care for patients in service areas that are not currently well served. Such a proposed center would be allowed to combine the bed need for separate, contiguous service areas, provided that each service area to be combined shows a positive bed need. The applicant must document with patient origin data the historical utilization of the residents in the service area that is to be combined, or why it is in the best interest of these residents for their projected bed need to be used to form a regional treatment facility.
7. It is frequently impossible for a facility to totally predict or control short-term deviation in the number of patients with mixed psychiatric/addictive etiology. Therefore, in the case of facilities with licensed beds for both psychiatric and substance abuse treatment, 75% of licensed substance abuse beds may be utilized alternatively for the treatment of patients having diagnoses of both psychiatric and substance abuse disorders.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following Project Review Criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Distribution (Accessibility);
2. Projected Revenues;
3. Projected Expenses;
4. Ability to Complete the Project;
5. Cost Containment; and
6. Staff Resources.

Services are accessible within sixty (60) minutes' travel time for the majority of residents of the state. The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for this service.

The Inpatient Treatment Bed Need Chart is located at the end of this Chapter.

### **OPIOID TREATMENT PROGRAMS**

Opioid treatment programs provide medications for the rehabilitation of persons dependent on opium, morphine, heroin or any derivative or synthetic drug. Opioid maintenance therapy (OMT) is an umbrella term that encompasses a variety of pharmacologic and non-pharmacologic treatment modalities, including the therapeutic use of specialized opioid compounds such as methadone, suboxone and buprenorphine to psychopharmacologically occupy opiate receptors in the brain, extinguish drug craving and thus establish a maintenance state. OMT is a separate service that can be provided in any level of care, as determined by the client's needs. For reference purposes only, Opioid (narcotic) treatment programs are described in [Regulation 61-93](#).

Charges for medication usually range between \$11 and \$17 per day. A Registered Pharmacist must dispense the medication.

The Opioid Treatment Programs Chart is located at the end of this Chapter.

### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. Because clients must usually attend a center 6 days per week to receive their dose of medication, these centers should be located throughout the state, with at least one center per county. To improve accessibility, opioid treatment programs should be developed in counties where none exist.
2. An additional treatment program can only be approved in a county with an existing program if the applicant is able to document sufficient need for the service.
3. For reference purposes only, Regulation 61-93 states that a narcotic (opioid) treatment program shall not operate within 500 feet of: the property line of a church, the property line of a public or private elementary or secondary school, a boundary of any residential district, a public park adjacent to any residential district, or the property line of a lot devoted to residential use.

### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following Project Review Criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Community Need Documentation;
2. Distribution (Accessibility);
3. Record of the Applicant;
4. Ability to Complete the Project.

Due to the increasing number of opioid deaths in South Carolina, additional facilities are needed for the services to be accessible within thirty (30) minutes' travel time for the majority of state residents. The benefits of improved accessibility will outweigh the adverse effects of the duplication of this existing service.

**FREESTANDING MEDICAL DETOXIFICATION FACILITIES\***  
**(Chapter 6)**

| <b><u>FACILITY BY REGION</u></b>                   | <b><u>COUNTY</u></b> | <b><u>BEDS</u></b> |
|----------------------------------------------------|----------------------|--------------------|
| <b>REGION I</b>                                    |                      |                    |
| The Phoenix Center Behavioral Health Services      | Greenville           | 16                 |
| <b>REGION II</b>                                   |                      |                    |
| Keystone Inpatient Services                        | York                 | 10                 |
| Lexington/Richland Alcohol & Drug Abuse/Detox Unit | Richland             | 16                 |
| <b>REGION IV</b>                                   |                      |                    |
| Charleston Center Subacute Detoxification Program  | Charleston           | <u>16</u>          |
|                                                    | <b>TOTAL</b>         | <b>58</b>          |

\* Holmesview Treatment Center, Patrick B. Harris Psychiatric Hospital, James F. Byrnes Center, Morris Village Alcohol & Drug Addiction Treatment Center, and Palmetto Treatment Center are classified as statewide facilities with restricted admissions procedures and are not included in this inventory.

**INPATIENT TREATMENT FACILITIES (SUBSTANCE ABUSE FACILITIES)\***  
(Chapter 6)

| Facility by Region                                   | County     | <u>2015</u> |               |              |
|------------------------------------------------------|------------|-------------|---------------|--------------|
|                                                      |            | Beds        | Pt. Days      | Occup Rate   |
| <b>Region I</b>                                      |            |             |               |              |
| Carolina Center Behavioral Health System <b>1</b>    | Greenville | 29          | 10,925        | 103.2%       |
| Springbrook Behavioral Health <b>2</b>               | Greenville | 6           | 0             | 0.0%         |
| <b>Region II</b>                                     |            |             |               |              |
| Aiken Regional Medical Center                        | Aiken      | 18          | 4,151         | 63.2%        |
| Palmetto Health Baptist                              | Richland   | 10          | 0             | 0.0%         |
| Palmetto Richland Springs (Palmetto Health Richland) | Richland   | 10          | 0             | 0.0%         |
| Rebound Behavioral Health <b>3</b>                   | Lancaster  | 18          | --            | 0.0%         |
| Three Rivers Behavioral Health                       | Lexington  | 17          | 2,859         | 46.1%        |
| <b>Region III</b>                                    |            |             |               |              |
| Carolinas Hospital System - Cedar Tower <b>4</b>     | Florence   | 12          | 2,033         | 46.4%        |
| Lighthouse Behavioral Health Hospital <b>5</b>       | Horry      | 27          | 5,647         | 57.3%        |
| <b>Region IV</b>                                     |            |             |               |              |
| MUSC Medical Center                                  | Charleston | 23          | 3,539         | 42.2%        |
| Palmetto Lowcountry Behavioral                       | Charleston | 16          | 4,733         | 81.0%        |
| <b>TOTAL</b>                                         |            | <b>186</b>  | <b>33,887</b> | <b>49.9%</b> |

\* Morris Village is a State facility licensed for one hundred and sixty-three (163) substance abuse treatment beds that are not counted in the CON methodology.

**1** SC-17-09 issued 2/16/2017 for the addition of 8 substance abuse beds for a total of 29 substance abuse beds.

**2** SC-15-34 issued 9/16/2015 for the addition of 6 substance abuse beds for a total of 6 substance abuse beds.

**3** Did not complete 2015 JAR.

**4** Did not adequately report age cohort data.

**5** SC-16-16 issued 4/27/2016 for addition of 9 substance abuse beds for a total of 27 substance abuse beds.

**INPATIENT TREATMENT BED NEED (SUBSTANCE ABUSE)**  
**(Chapter 6)**

ROA 005406

| SERVICE AREA                                                | AGE CAT | 2015 POP | 2022 POP | EXISTING BEDS | 2015 PT. DAYS | 2015 USAGE RATE | CON RATE | BED NEED (USE) | + / - | BED NEED (SW) | + / - | BED NEED |
|-------------------------------------------------------------|---------|----------|----------|---------------|---------------|-----------------|----------|----------------|-------|---------------|-------|----------|
| Anderson, Oconee                                            | 0-17    | 60263    | 59410    | 0             |               | 0.00000         | 0.75     | 0              |       | 2             |       |          |
|                                                             | 18-64   | 159668   | 161510   |               |               | 0.00000         | 0.75     | 0              | 0     | 5             | 9     | 9        |
|                                                             | 65+     | 50474    | 60580    |               |               | 0.00000         | 0.75     | 0              |       | 2             |       |          |
| Cherokee, Spartanburg, Union                                | 0-17    | 89203    | 89960    | 0             |               | 0.00000         | 0.75     | 0              |       | 3             |       |          |
|                                                             | 18-64   | 232396   | 235580   |               |               | 0.00000         | 0.75     | 0              | 0     | 6             | 11    | 11       |
|                                                             | 65+     | 59674    | 72310    |               |               | 0.00000         | 0.75     | 0              |       | 2             |       |          |
| Greenville, Pickens                                         | 0-17    | 138937   | 149270   | 35            | 20            | 0.00014         | 0.75     | 1              |       | 4             |       |          |
|                                                             | 18-64   | 383988   | 407480   |               | 10267         | 0.02674         | 0.75     | 40             | 10    | 11            | -17   | 10       |
|                                                             | 65+     | 90629    | 117760   |               | 638           | 0.00704         | 0.75     | 4              |       | 3             |       |          |
| Abbeville, Edgefield, Greenwood, Laurens, McCormick, Saluda | 0-17    | 46930    | 44490    | 0             |               | 0.00000         | 0.75     | 0              |       | 2             |       |          |
|                                                             | 18-64   | 131027   | 123220   |               |               | 0.00000         | 0.75     | 0              | 0     | 4             | 8     | 8        |
|                                                             | 65+     | 39709    | 46630    |               |               | 0.00000         | 0.75     | 0              |       | 2             |       |          |
| Chester, Lancaster, York                                    | 0-17    | 87982    | 92390    | 18            |               | 0.00000         | 0.75     | 0              |       | 3             |       |          |
|                                                             | 18-64   | 225405   | 248390   |               |               | 0.00000         | 0.75     | 0              | -18   | 7             | -6    | -6       |
|                                                             | 65+     | 55917    | 78420    |               |               | 0.00000         | 0.75     | 0              |       | 2             |       |          |
| Fairfield, Kershaw, Lexington, Newberry, Richland           | 0-17    | 182593   | 190410   | 37            | 0             | 0.00000         | 0.75     | 0              |       | 5             |       |          |
|                                                             | 18-64   | 519977   | 538960   |               | 2320          | 0.00446         | 0.75     | 9              | -25   | 14            | -14   | -14      |
|                                                             | 65+     | 110676   | 145250   |               | 539           | 0.00487         | 0.75     | 3              |       | 4             |       |          |
| Chesterfield, Dillon, Marlboro                              | 0-17    | 24240    | 22180    | 0             |               | 0.00000         | 0.75     | 0              |       | 1             |       |          |
|                                                             | 18-64   | 63816    | 58540    |               |               | 0.00000         | 0.75     | 0              | 0     | 2             | 4     | 4        |
|                                                             | 65+     | 16689    | 19350    |               |               | 0.00000         | 0.75     | 0              |       | 1             |       |          |
| Clarendon, Lee, Sumter                                      | 0-17    | 36997    | 34370    | 0             |               | 0.00000         | 0.75     | 0              |       | 1             |       |          |
|                                                             | 18-64   | 95982    | 89100    |               |               | 0.00000         | 0.75     | 0              | 0     | 3             | 5     | 5        |
|                                                             | 65+     | 26172    | 31240    |               |               | 0.00000         | 0.75     | 0              |       | 1             |       |          |

**INPATIENT TREATMENT BED NEED (SUBSTANCE ABUSE)**  
**(Chapter 6)**

| SERVICE AREA                               | AGE CAT      | 2015 POP         | 2022 POP         | EXISTING BEDS      | 2015 PT. DAYS | 2015 USAGE RATE | CON RATE | BED NEED (USE) | + / - | BED NEED (SW) | + / - | BED NEED  |
|--------------------------------------------|--------------|------------------|------------------|--------------------|---------------|-----------------|----------|----------------|-------|---------------|-------|-----------|
| Darlington, Florence, Marion               | 0-17         | 56342            | 53840            | 12                 |               | 0.00000         | 0.75     | 0              |       | 2             |       |           |
|                                            | 18-64        | 143188           | 136210           |                    |               | 0.00000         | 0.75     | 0              | -3    | 4             | -4    | -3        |
|                                            | 65+          | 38665            | 45810            |                    | 2033          | 0.05258         | 0.75     | 9              |       | 2             |       |           |
| Georgetown, Horry, Williamsburg            | 0-17         | 78057            | 80700            | 27                 | 0             | 0.00000         | 0.75     | 0              |       | 3             |       |           |
|                                            | 18-64        | 237594           | 254680           |                    | 5207          | 0.02192         | 0.75     | 21             | -3    | 7             | -13   | -3        |
|                                            | 65+          | 87381            | 132180           |                    | 440           | 0.00504         | 0.75     | 3              |       | 4             |       |           |
| Aiken, Barnwell                            | 0-17         | 41824            | 40650            | 18                 | 534           | 0.01277         | 0.75     | 2              |       | 2             |       |           |
|                                            | 18-64        | 112149           | 110380           |                    | 3126          | 0.02787         | 0.75     | 12             | -1    | 3             | -11   | -1        |
|                                            | 65+          | 33581            | 42080            |                    | 491           | 0.01462         | 0.75     | 3              |       | 2             |       |           |
| Allendale, Beaufort, Hampton, Jasper       | 0-17         | 47559            | 47730            | 0                  |               | 0.00000         | 0.75     | 0              |       | 2             |       |           |
|                                            | 18-64        | 135048           | 140680           |                    |               | 0.00000         | 0.75     | 0              | 0     | 4             | 8     | 8         |
|                                            | 65+          | 54288            | 77250            |                    |               | 0.00000         | 0.75     | 0              |       | 2             |       |           |
| Bamberg, Calhoun, Orangeburg               | 0-17         | 25997            | 24480            | 0                  |               | 0.00000         | 0.75     | 0              |       | 1             |       |           |
|                                            | 18-64        | 71242            | 61780            |                    |               | 0.00000         | 0.75     | 0              | 0     | 2             | 4     | 4         |
|                                            | 65+          | 21630            | 25040            |                    |               | 0.00000         | 0.75     | 0              |       | 1             |       |           |
| Berkeley, Charleston, Colleton, Dorchester | 0-17         | 174664           | 187710           | 39                 | 181           | 0.00104         | 0.75     | 1              |       | 5             |       |           |
|                                            | 18-64        | 498283           | 555010           |                    | 7812          | 0.01568         | 0.75     | 32             | -4    | 15            | -15   | -4        |
|                                            | 65+          | 109310           | 155460           |                    | 279           | 0.00255         | 0.75     | 2              |       | 4             |       |           |
| <b>Statewide Totals</b>                    |              | <b>4,896,146</b> |                  | <b>186</b>         | <b>33,887</b> |                 |          | <b>142</b>     |       | <b>155</b>    |       | <b>28</b> |
|                                            |              |                  |                  | <b>State Usage</b> |               |                 |          |                |       |               |       |           |
|                                            | 0-64         | <b>4,101,351</b> | <b>4,239,110</b> | <b>Rate</b>        |               |                 |          |                |       |               |       |           |
|                                            | 65+          | <b>794,795</b>   | <b>1,049,360</b> |                    |               |                 |          |                |       |               |       |           |
|                                            | <b>Total</b> | <b>4,896,146</b> | <b>5,288,470</b> | <b>0.000019</b>    |               |                 |          |                |       |               |       |           |

ROA 005407

**OPIOID TREATMENT PROGRAMS**  
**(Chapter 6)**

| <b><u>Region</u></b> | <b><u>Facility</u></b>                                 | <b><u>County</u></b> |
|----------------------|--------------------------------------------------------|----------------------|
| I                    | Crossroads Treatment Center of Seneca                  | Oconee               |
| I                    | Crossroads Treatment Center of Greenville              | Greenville           |
| I                    | Greenwood Treatment Specialists <b>1</b>               | Greenwood            |
| I                    | Greenville Metro Treatment Center                      | Greenville           |
| I                    | Palmetto Carolina Treatment Center                     | Spartanburg          |
| I                    | Recovery Concepts of the Carolina Upstate              | Pickens              |
| I                    | Southwest Carolina Treatment Center                    | Anderson             |
| I                    | BHG- Spartanburg Treatment Center                      | Spartanburg          |
| I                    | Clear Skye Treatment Center of Laurens County <b>3</b> | Laurens              |
| II                   | BHG- Aiken Treatment Center                            | Aiken                |
| II                   | Columbia Metro Treatment Center                        | Lexington            |
| II                   | Crossroads Treatment Center of Columbia                | Richland             |
| II                   | York County Treatment Center                           | York                 |
| II                   | Rock Hill Treatment Specialists <b>2</b>               | York                 |
| III                  | Center of Hope Myrtle Beach                            | Horry                |
| III                  | Starting Point of Darlington                           | Darlington           |
| III                  | Starting Point of Florence                             | Florence             |
| IV                   | Center for Behavioral Health South Carolina            | Charleston           |
| IV                   | Charleston Center                                      | Charleston           |
| IV                   | Crossroads Treatment Center of Charleston              | Charleston           |
| IV                   | Recovery Concepts                                      | Jasper               |

**1** CON SC-15-44 issued December 1, 2015.

**2** CON SC-16-86 issued November 1, 2016.

**3** CON SC-17-29 issued May 11, 2017.

## CHAPTER 7

### RESIDENTIAL TREATMENT FACILITIES FOR CHILDREN AND ADOLESCENTS

A [Residential Treatment Facility for Children and Adolescents](#) (RTF) is operated for the assessment, diagnosis, treatment, and care of two or more children and/or adolescents in need of mental health treatment. Children and/or adolescents up to age 21 who manifest a substantial disorder of cognitive or emotional process which lessens or impairs to a marked degree their capacity either to develop or to exercise age-appropriate or age-adequate behavior are treated by these facilities.

These facilities provide medium to long-term care (six months or longer). Treatment modalities are both medical and behavioral in nature. Some facilities contract with the [South Carolina Continuum of Care \(COC\)](#) to provide these services.

Services available, at a minimum, should include the following:

1. 24-hour, awake supervision in a secure facility;
2. individual treatment plans to assess the problems and determine specific patient goals;
3. psychiatric consultation and professional psychological services for treatment supervision and consultation;
4. nursing services, as required;
5. regularly scheduled individual, group, and/or family counseling in keeping with the needs of each client;
6. recreational facilities with an organized youth development program;
7. a special education program with a minimum program defined by the South Carolina Department of Education; and
8. discharge planning including a final assessment of the patient's condition and an aftercare plan indicating any referrals to follow-up treatment and self-help groups.

Each facility shall have a written plan for cooperation with other public and private organizations, such as schools, social service agencies, etc., to ensure that each child under its care will receive comprehensive treatment. In addition, each facility shall have a written transfer agreement with one or more hospitals for the transfer of emergency cases when

such hospitalization becomes necessary. A proposal for Residential Treatment Facilities for Children and Adolescents should have letters of support from the Department of Social Services (DSS), DMH, and COC

The Residential Treatment Facilities for Children & Adolescents Chart is located at the end of this Chapter.

#### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. *The establishment or expansion of an RTF requires a Certificate of Need.*
2. Need projections are calculated by service area. The RTF service areas mirror the psychiatric service and inpatient drug and alcohol abuse service areas (i.e., Anderson/Oconee, Greenville/Pickens, etc.) to facilitate planning in a consistent manner.
3. The applicant must document the need for the expansion of or the addition of an RTF based on the most current utilization data available. The existing resources must be considered and documentation presented as to why these resources are not adequate to meet the needs of the community.
4. An existing facility that can demonstrate a 70% or greater occupancy rate for the most recent year prior can apply to add up to 5 additional beds, regardless of whether there is a bed need in the service area.
5. For a new facility, the applicant must document where the potential patients for the facility will come from and where they are currently being served, to include the expected shift in patient volume from existing providers. For the expansion of an existing facility, the applicant must provide patient origin information on the current facility.
6. The applicant must document the potential impact that the proposed new RTF or expansion will have upon the existing service providers and referral patterns.
7. The applicant must provide a written commitment that the facility will provide services for indigent and charity patients at a percentage that is comparable to other health care facilities in the service area.
8. The applicant agrees to provide utilization data on the operation of the facility to the Department.

The bed need methodology to be used in South Carolina is based upon a standard of 41.4 beds per 100,000 children. Since few, if any, children under 5 years of age would be

candidates for this type of care, the bed need will be based on the population age 5-21.

The Projected Bed Need for Residential Treatment Facilities for Children & Adolescents Chart is located at the end of this Chapter.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Community Need Documentation;
2. Distribution (Accessibility);
3. Record of the Applicant;
4. Staff Resources; and
5. Medically Underserved Groups.

Residential treatment facility beds for children and adolescents are distributed statewide and are located within sixty (60) minutes' travel time for the majority of residents of the State. The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for this service.

**RESIDENTIAL TREATMENT FACILITIES FOR CHILDREN & ADOLESCENTS\***  
(Chapter 7)

| <u>Region</u> | <u>Facility</u>                                          | <u>County</u> | <u>Beds</u> | <u>PT Days</u> | <u>2015<br/>% Occupancy</u> |
|---------------|----------------------------------------------------------|---------------|-------------|----------------|-----------------------------|
| I             | Avalonia Group Homes                                     | Pickens       | 55          | 17,136         | 85.4%                       |
| I             | Excalibur Youth Services                                 | Greenville    | 60          | 15,687         | 71.6%                       |
| I             | Generations Residential Programs                         | Greenville    | 30          | 7,756          | 70.8%                       |
| I             | GHS Marshall I Pickens Hospital<br>Childrens Program     | Greenville    | 22          | 5,849          | 72.8%                       |
| I             | Springbrook Behavioral Health<br>System RTF              | Greenville    | 68          | 22,168         | 89.3%                       |
| II            | The Hearth Center for Eating<br>Disorders <b>1</b>       | Richland      | 0           | -              |                             |
| II            | New Hope Carolinas                                       | York          | 150         | 48,739         | 89.0%                       |
| II            | Three Rivers Behavioral RTF <b>2</b>                     | Lexington     | 0           | -              |                             |
| II            | Three Rivers Residential Treatment -<br>Midlands Campus  | Lexington     | 64          | 21,408         | 91.6%                       |
| III           | Lighthouse Care Center of Conway                         | Horry         | 18          | 4,939          | 75.2%                       |
| III           | Palmetto Pee Dee Residential<br>Treatment Center         | Florence      | 64          | 21,498         | 92.0%                       |
| III           | Willowglen Academy South<br>Carolina                     | Williamsburg  | 40          | 13,825         | 94.7%                       |
| IV            | Palmetto Pines Behavioral Health                         | Dorchester    | 64          | 19,688         | 84.3%                       |
| IV            | Riverside Behavioral Health<br>Services at Windwood Farm | Charleston    | 12          | 4,350          | 99.3%                       |
| <b>Totals</b> |                                                          |               | <b>647</b>  | <b>203,043</b> | <b>86.0%</b>                |

\* The Directions program primarily served court-ordered patients from the South Carolina Department of Juvenile Justice (DJJ). As a statewide facility serving a restricted population, it was not included in this inventory. The Directions Program ceased operation in December 2015.

**1** The Hearth Center for Eating Disorders ceased operation in October of 2016.

**2** Three Rivers Behavioral RTF ceased operation in October of 2016.

**PROJECTED BED NEED FOR RESIDENTIAL TREATMENT FACILITIES FOR CHILDREN & ADOLESCENTS\***  
(Chapter 7)

| <b>Service Area</b>                                            | <b>2015<br/>Pop</b> | <b>2022<br/>Pop</b> | <b>Existing<br/>Beds</b> | <b>Bed<br/>Need<br/>(Use)</b> | <b>Need</b> |
|----------------------------------------------------------------|---------------------|---------------------|--------------------------|-------------------------------|-------------|
| Anderson, Oconee                                               | 56794               | 56340               | 0                        | 23                            | <b>23</b>   |
| Cherokee, Spartanburg, Union                                   | 85813               | 85830               | 0                        | 36                            | <b>36</b>   |
| Greenville, Pickens                                            | 140665              | 146580              | 235                      | 61                            | <b>-174</b> |
| Abbeville, Edgefield, Greenwood,<br>Laurens, McCormick, Saluda | 46003               | 42750               | 0                        | 18                            | <b>18</b>   |
| Chester, Lancaster, York                                       | 83088               | 89080               | 150                      | 37                            | <b>-113</b> |
| Fairfield, Kershaw, Lexington, Newberry,<br>Richland           | 191157              | 194120              | 64                       | 80                            | <b>16</b>   |
| Chesterfield, Dillon, Marlboro                                 | 22670               | 20630               | 0                        | 9                             | <b>9</b>    |
| Clarendon, Lee, Sumter                                         | 35523               | 32730               | 0                        | 14                            | <b>14</b>   |
| Darlington, Florence, Marion                                   | 53494               | 50920               | 64                       | 21                            | <b>-43</b>  |
| Georgetown, Horry, Williamsburg                                | 74031               | 78280               | 58                       | 32                            | <b>-26</b>  |
| Aiken, Barnwell                                                | 39451               | 38680               | 0                        | 16                            | <b>16</b>   |
| Allendale, Beaufort, Hampton, Jasper                           | 46461               | 46490               | 0                        | 19                            | <b>19</b>   |
| Bamberg, Calhoun, Orangeburg                                   | 26850               | 23720               | 0                        | 10                            | <b>10</b>   |
| Berkeley, Charleston, Colleton<br>Dorchester                   | 164778              | 179620              | 76                       | 74                            | <b>-2</b>   |
| <b>Statewide Totals</b>                                        | <b>875,150</b>      | <b>882,430</b>      | <b>647</b>               | <b>365</b>                    | <b>-282</b> |

## CHAPTER 8

### CARDIOVASCULAR CARE

Current guidelines issued by the Society for Cardiovascular Angiography and Interventions (SCAI), the American College of Cardiology (ACC), and the American Heart Association (AHA) allow for Emergent/Primary PCI as well as Elective PCI in facilities without on-site open heart surgery backup. Hospitals without an open heart surgery program shall be allowed to provide Emergent/Primary and/or Elective PCIs only if they comply with all sections of Standard 7 or 8 of the Standards for Cardiac Catheterization.

In 2013, SCAI, ACC, and AHA updated their joint statement on clinical competence regarding coronary artery intervention procedures. The joint statement defined certain requirements for PCI operator competence and PCI facility volume requirements. The statement also noted an overall decrease in PCI volumes.

Both cardiac catheterization and open heart surgery programs require highly skilled staffs and expensive equipment. Appropriately equipped and staffed programs serving larger populations are preferable to multiple, minimum population programs. Underutilized programs may reflect unnecessary duplication of services in an area, which may seriously compromise quality and safety of procedures and increase the cost of care. Optimal performance requires a caseload of adequate size to maintain the skills and efficiency of the staff. Cardiac catheterization laboratories should perform a minimum of 350 procedures per year. Emergent PCI operators should perform a minimum of 36 PCIs annually; all other PCI operators should perform a minimum of 200 combined procedures annually. Individual providers should perform a minimum of 50 PCIs annually (averaged over two years), including no less than 11 emergent/primary PCIs annually. It is recommended these be performed in facilities meeting a 200 procedure-per-year threshold.

#### **CARDIAC CATHETERIZATION**

##### Relevant Definitions

["Cardiac Catheterization Procedure"](#) is an invasive procedure where a thin, flexible catheter is inserted into a blood vessel; the physician then manipulates the free end of the catheter into the chambers or vessels of the heart. All activities performed during one clinical session, including angiocardiology, coronary arteriography, pulmonary arteriography, coronary angioplasty and other diagnostic or therapeutic measures and physiologic studies shall be considered one procedure.

[“Comprehensive Catheterization Laboratory”](#) means a dedicated room or suite of rooms in which PCIs as well as diagnostic and therapeutic catheterizations are performed, in a facility with on-site open heart surgery backup.

[“Diagnostic Catheterization”](#) refers to a cardiac catheterization during which any or all of the following diagnostic procedures or measures are performed: Blood Pressure; Oxygen Content and Flow Measurements; Angiocardiology, Coronary Arteriography; and Pulmonary Arteriography.

[“Diagnostic Catheterization Laboratory”](#) means a dedicated room in which only diagnostic catheterizations are performed.

[“Percutaneous Coronary Intervention \(PCI\)”](#) refers to a therapeutic procedure to relieve coronary narrowing, such as Percutaneous Transluminal Coronary Angioplasty (PTCA) or Coronary Stent Implantation. These procedures may be performed on an emergent or elective basis. “Emergent or Primary” means that a patient needs immediate PCI because, in the treating physician’s best clinical judgment, delay would result in undue harm or risk to the patient. An “Elective” PCI is scheduled in advance and performed on a patient with cardiac function that has been stable in the days prior to the procedure.

[“Therapeutic Catheterization”](#) refers to a PCI or cardiac catheterization during which, in addition to any diagnostic catheterization procedure, any or all of the following interventional procedures are performed: PTCA; Thrombolytic Agent Infusion; Directional Coronary Atherectomy; Rotational Atherectomy; Extraction Atherectomy; Coronary Stent Implants and Cardiac Valvuloplasty.

### Scope of Services

The following services should be available in both adult and pediatric catheterization laboratories:

1. Each cardiac catheterization lab should be competent to provide a range of angiographic (angiocardiology, coronary arteriography, pulmonary arteriography), hemodynamic, and physiologic (cardiac output measurement, intracardiac pressure, etc.) studies. These facilities should be available in one laboratory so that the patient need not be moved during a procedure.
2. The lab should have the capability of immediate endocardiac catheter pacemaking in cardiac arrest, a crash cart, and defibrillator.
3. A full range of non-invasive cardiac/circulatory diagnostic support services, such as the following, should be available within the hospital:

- a. Nuclear Cardiology
  - b. Echocardiography
  - c. Pulmonary Function Testing
  - d. Exercise Testing
  - e. Electrocardiography
  - f. Cardiac Chest X-ray and Cardiac Fluoroscopy
  - g. Clinical Pathology and Blood Chemistry Analysis
  - h. Phonocardiography
  - i. Coronary Care Units (CCUs)
  - j. Medical Telemetry/Progressive Care
4. Each applicant shall document plans for providing cardiac rehabilitation services to its patients or plans for establishing referral agreements with facilities offering cardiac rehabilitation services.

#### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. The capacity of a fixed cardiac catheterization laboratory shall be 1,200 procedures per year, as measured on an equivalent basis. Each adult diagnostic cardiac catheterization shall carry a weight of 1.0 procedures, while each adult therapeutic catheterization performed in the fixed laboratory shall carry a weight of 2.0 procedures. For pediatric and adult congenital catheterization labs, diagnostic catheterizations shall carry the weight of 2.0 procedures, therapeutic catheterizations shall carry the weight of 3.0 procedures, electrophysiology (EP) studies shall carry the weight of 2.0 procedures, and biopsies performed after heart transplants shall carry the weight of 1.0 procedures. The capacity of mobile cardiac catheterization labs will be calculated based on the number of days of operation per week.
2. The service area for a diagnostic catheterization laboratory is defined as all facilities within 30 minutes' emergency medical transport time<sup>1</sup>; for comprehensive cardiac catheterization laboratories the service area is all facilities within 60 minutes' emergency medical transport time; a pediatric cardiac program should serve a population encompassing at least 30,000 births per year, or roughly two million people.

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<sup>1</sup> Emergency medical transport time shall be determined by the DHEC Bureau of EMS and Trauma, and for the purposes of this Plan shall mean transport by ground ambulance. Potential applicants may obtain this information for any laboratory or proposed laboratory by calling 803-545-4501.

### Diagnostic and Mobile Catheterization Services

3. New diagnostic catheterization services, including mobile services, shall be approved only if all existing labs in the service area have performed a minimum of 350 diagnostic catheterization procedures per laboratory during the most recent year;
4. An applicant for a fixed diagnostic service must project that the proposed service will perform a minimum of 350 procedures annually within three years of initiation of services, without reducing the utilization of the existing diagnostic catheterization services in the service area below 350 diagnostic cardiac catheterization procedures per laboratory.
5. Expansion of an existing diagnostic catheterization service shall only be approved if the service has operated at a minimum use rate of 80% of capacity (i.e., 960 procedures by equivalent measure) for each of the past two years and can project a minimum of 350 procedures per year on the additional equipment within three years of its implementation.
6. An applicant for a mobile diagnostic catheterization laboratory must be able to project a minimum of 75 diagnostic procedures annually for each day of the week that the mobile lab is located at the applicant's facility by the end of the third year following initiation of the service, without reducing the utilization of the existing diagnostic catheterization services in the service area below 350 diagnostic catheterization procedures per laboratory. In addition:
  - a. The applicant must document that the specific mobile unit utilized by the vendor will perform a combined minimum of 350 procedures per year;
  - b. The applicant must include vendor documentation of the complication rate of the mobile units operated by the vendor; and
  - c. If an application for a mobile lab is approved and the applicant subsequently desires to change vendors, the Department must approve such change in order to insure that appropriate minimum utilization can be documented.
7. An applicant for provision of diagnostic catheterization service agrees, as a condition for issuance of its Certificate of Need for such service, to discontinue such services and surrender the Certificate of Need for that service if they have failed to achieve 350 diagnostic catheterizations per year by the expiration of the first three years of operation of such services.

### Emergent and Elective PCI without On-Site Cardiac Backup

8. Hospitals with diagnostic laboratories may be approved to perform emergency PCI without an on-site open heart surgery program only if all of the following criteria are met:
  - a. Therapeutic catheterizations must be limited to Percutaneous Coronary Interventions (PCIs) performed only in emergent circumstances (Primary PCIs). Elective PCI may not be performed at institutions that do not provide on-site cardiac surgery except as provided for in Standard 8 below.
  - b. The applicant has performed a minimum of 250 diagnostic catheterization procedures in the most recent Joint Annual Report and can reasonably demonstrate that it will continue to perform a minimum of 350 diagnostic catheterizations annually within three years of the initiation of services.
  - c. The hospital must acquire an intra-aortic balloon pump (IABP) dedicated solely to this purpose.
  - d. The chief executive officer of the hospital must sign an affidavit assuring that the current guidelines mentioned below are and will continue to be met at all times.
  - e. An application shall be approved only if it is consistent with current guidelines established by SCAI/ACC/AHA as they appear at the time an application for a CON is filed under this Chapter. A complete copy of the current guidelines can be found at: [www.acc.org/guidelines](http://www.acc.org/guidelines).
  - f. An applicant for provision of emergent/primary PCI without on-site surgical backup agrees, as a condition for issuance of its Certificate of Need for such service, to discontinue such services and surrender the Certificate of Need for that service if they have failed to achieve 350 diagnostic catheterizations per year by the expiration of the first three years of operation of such services.
9. In 2014, the SCAI/ACC/AHA affirmed that elective PCI may be safely performed in hospitals without on-site cardiac surgery, provided that appropriate planning for program development has been accomplished and rigorous clinical and angiographic criteria are used for proper patient selection. Hospitals with diagnostic laboratories that have been approved to perform primary PCI without on-site open heart surgical backup *must obtain a Certificate of Need* in order to upgrade to a designation as providing elective PCI without on-site cardiac surgery backup. The following standards must be met:

- a. The applicant has performed a minimum of 250 diagnostic catheterization procedures in the most recent Joint Annual Report and can reasonably demonstrate that it will continue to perform a minimum of 350 diagnostic catheterizations annually within three years of the initiation of services.
- b. All existing comprehensive cardiac catheterization facilities in the service area performed a minimum of 200 therapeutic catheterizations (PCIs) in the most recent year.
- c. An applicant must project that the proposed service will perform a minimum of 200 therapeutic catheterization procedures annually within three years of initiation of services, without reducing the cardiac catheterizations performed at existing comprehensive catheterization programs in the service area below the minimum thresholds of 200 therapeutic procedures and 350 diagnostic procedures at each facility.
- d. The physicians must be experienced interventionalists who perform a minimum of 50 elective PCI cases per year and preferably at least 11 PCI procedures for STEMI each year. Ideally, operators with an annual procedure volume of fewer than 50 procedures per year should only work at institutions with an activity level of more than 600 procedures per year. Operators who perform fewer than 50 procedures per year should develop a defined mentoring relationship with a highly experienced operator who has an annual procedural volume of at least 150 procedures.
- e. For catheterization labs in facilities without on-site surgical backup, there must be formalized written protocols in place for immediate (emergency transport beginning with 30 minutes and arriving at surgical facility within 60 minutes) and efficient transfer of patients to the nearest cardiac surgical facility that are reviewed and tested on a regular basis.
  - Applicants must provide documentation of an agreement with an ambulance or transport service capable of advanced life support and intra-aortic balloon pump and that guarantees a thirty (30) minute or less response time from contact.
- f. The catheterization laboratory must be well-equipped, with optimal imaging systems, resuscitative equipment, intra-aortic balloon pump (IABP) support, and must be well-stocked with a broad array of interventional equipment.
- g. The nursing and technical catheterization laboratory staff must be experienced in handling acutely ill patients and comfortable with interventional equipment. They must have acquired experience in dedicated

interventional laboratories at a surgical center. They participate in a 24-hour, 365-day call schedule, and must be available within 30 minutes of facility call-back.

- h. The cardiac care unit nurses must be adept in hemodynamic monitoring and IABP management.
- i. Applicants must offer primary percutaneous coronary intervention (PCI) services and procedures twenty-four (24) hours a day, seven (7) days a week, three hundred and sixty five (365) days a year.
- j. Applicants must provide documentation to show that guidelines for determining patients appropriate for PCI procedures in a setting without on-site open heart backup consistent with standards of the American College of Cardiology have been developed and will be maintained.
- k. Applicants must agree to participate in the South Carolina STEMI Mission Lifeline Program.
- l. Every therapeutic catheterization program should operate a quality-improvement program that routinely:
  - 1) reviews quality and outcomes of the entire program;
  - 2) reviews results of individual operators;
  - 3) includes risk adjustment;
  - 4) provides peer review of difficult or complicated cases; and
  - 5) performs random case reviews.
- m. Every PCI program should participate in a regional or national PCI registry for the purpose of benchmarking its outcomes against current national norms.
- n. An applicant for provision of elective PCI without on-site surgical backup agrees, as a condition for issuance of its Certificate of Need for such service, to discontinue therapeutic catheterization services and surrender the Certificate of Need for that service if they have failed to achieve 200 therapeutic catheterizations (PCIs) per year by the expiration of the first three years of operation of such services.

#### Comprehensive Catheterization Services

- 10. Comprehensive catheterization laboratories, which perform diagnostic catheterizations, PCI and other therapeutic procedures, shall only be located in

hospitals that provide open heart surgery. New comprehensive cardiac catheterization services shall be approved only if the following conditions are met:

- a. All existing comprehensive cardiac catheterization facilities in the service area performed a minimum of 200 therapeutic catheterizations (PCIs) in the most recent year; and
  - b. An applicant must project that the proposed service will perform a minimum of 200 therapeutic catheterization procedures annually within three years of initiation of services, without reducing the therapeutic catheterizations performed at existing comprehensive catheterization programs in the service area below 200 procedures at each facility.
11. To prevent the unnecessary duplication of comprehensive cardiac catheterization services, expansion of an existing comprehensive cardiac catheterization service shall be approved only if the service has operated at a minimum use rate of 80% of capacity (960 equivalents per lab) for each of the past two years and can project a minimum of 600 procedures, as measured on an equivalent basis, per year on the additional equipment within three years of its implementation. The 600 equivalents may consist of a combination of diagnostic and therapeutic procedures.
  12. An applicant for expansion of comprehensive cardiac catheterization agrees, as a condition for issuance of its Certificate of Need for such expansion, to discontinue the expanded services and surrender the Certificate of Need for that expanded service if they have failed to achieve 600 procedures, as measured on an equivalent basis, per year within three years of its implementation.

#### Pediatric Catheterization Services

- a. All existing facilities have performed at a combined use rate of 80% of capacity for the most recent year; and
  - b. An applicant must project that the proposed service will perform a minimum of 200 procedures annually within three years of initiation of services.
13. New pediatric cardiac catheterization services shall be approved only if the following conditions are met:
  14. Expansion of an existing pediatric cardiac catheterization service shall only be approved if the service has operated at a minimum use rate of 80% of capacity (960 equivalents) for each of the past two years and can project a minimum of 200 procedures per year, on the additional equipment within three years of its implementation.

15. Documentation of need for the proposed service:
  - a. The applicant shall provide epidemiologic evidence of the incidence and prevalence of conditions for which diagnostic, comprehensive or pediatric catheterization is appropriate within the proposed service area, to include the number of potential candidates for these procedures;
  - b. The applicant shall project the utilization of the service and the effect of its projected utilization on other cardiac catheterization services within its service area, to include:
    - 1) The number of patients of the applicant hospital who were referred to other cardiac catheterization services in the preceding three years and the number of those patients who could have been served by the proposed service;
    - 2) The number of additional patients, if any, who will be generated through changes in referral patterns, recruitment of specific physicians, or other changes in circumstances. The applicant shall document the services, if any, from which these patients will be drawn; and
    - 3) Existing and projected patient origin information and referral patterns for each cardiac catheterization service serving patients from the area proposed to be served shall be provided.
16. Both fixed and mobile diagnostic cardiac catheterization laboratories must provide a written agreement with at least one hospital providing open heart surgery, which states specified arrangements for referral and transfer of patients, to include:
  - a. Criteria for referral of patients on both a routine and an emergency back-up basis;
  - b. Regular communications between cardiologists performing catheterizations and surgeons to whom patients are referred;
  - c. Acceptability of diagnostic results from the cardiac catheterization service to the receiving surgical service to the greatest extent possible to prevent duplication of services; and
  - d. Development of linkages with the receiving institution's peer review mechanism.

17. The application shall include standards adopted or to be adopted by the service, consistent with current medical practice as published by clinical professional organizations, such as the American College of Cardiology or the American Heart Association, defining high-risk procedures and patients who, because of their conditions, are at high risk. For diagnostic catheterization laboratories, this description of patient selection criteria shall include referral arrangements for high-risk patients. For comprehensive laboratories, these high-risk procedures should only be performed with open heart surgery back-up. The cardiac team must be promptly available and capable of successfully operating on unstable, acute, ischemic patients in an emergency setting.
18. Cardiac catheterization services should be staffed by a minimum of two physicians licensed by the State of South Carolina who possess the qualifications specified by the governing body of the facility. Protocols should be established that govern initial and continuing granting of clinical staff privileges to physicians to perform diagnostic, therapeutic and/or pediatric catheterizations. Applicants must provide documentation that one (1) or more interventional cardiologist(s) will be required to respond to a call in a timely manner consistent with the hospital Medical Staff bylaws and clinical indications. In addition, standards should be established to assure that each physician using the service would be involved in adequate numbers of applicable types of cardiac catheterization procedures to maintain proficiency.
19. Applicants must agree to report annual the data on number of PCI procedures, type, and outcomes to the National Cardiovascular Data Registry Cat/PCI registry.
  - a. Applicants must agree to provide accurate and timely data, including outcomes analysis and formal periodic external and internal case review by appropriate entities.
  - b. The Department encourages all applicants and providers to share their outcomes data with appropriate registries and research studies designed to improve the quality of cardiac care.

The Cardiac Catheterization Procedures Chart is located at the end of this Chapter.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Community Need Documentation;
2. Distribution (Accessibility);
3. Record of the Applicant.

4. Ability to Complete the Project;
5. Staff Resources;
6. Adverse Effects on Other Facilities; and
7. Medically Underserved Groups.

The Department finds that:

- (1) Diagnostic catheterization services are generally available within forty-five (45) minutes' and therapeutic catheterization services within ninety (90) minutes' travel time for the majority of South Carolina residents;
- (2) Significant cardiac catheterization capacity exists in most areas of the State; and
- (3) The preponderance of the literature on the subject indicates that a minimum number of procedures are recommended per year in order to develop and maintain physician and staff competency in performing these procedures.

The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for this service.

### **OPEN HEART SURGERY**

#### **Relevant Definitions**

["Open Heart Surgery"](#) refers to an operation performed on the heart or intrathoracic great vessels.

An ["Open Heart Surgery Unit"](#) is an operating room or suite of rooms equipped and staffed to perform open heart surgery procedures; such designation does not preclude its use for other related surgeries, such as vascular surgical procedures. A hospital with an open heart surgery program may have one or more open heart surgery units.

["Open Heart Surgical Procedure"](#) means an operation performed on the heart or intrathoracic great vessels within an open heart surgical unit. All activities performed during one clinical session shall be considered one procedure.

["Open Heart Surgical Program"](#) means the combination of staff, equipment, physical space and support services used to perform open heart surgery. Adult open heart surgical programs should have the capacity to perform a full range of procedures, including:

1. repair/replacement of heart valves
2. repair of congenital defects
3. cardiac revascularization

4. repair/reconstruction of intrathoracic vessels
5. treatment of cardiac traumas

In addition, open heart programs must have the ability to implement and apply circulatory assist devices such as intra-aortic balloon and prolonged cardiopulmonary partial bypass.

#### Scope of Services

A range of non-invasive cardiac and circulatory diagnostic services should be available within the hospital, including the following:

1. services for hematology and coagulation disorders
2. electrocardiography, including exercise stress testing
3. diagnostic radiology
4. clinical pathology services which include blood chemistry and blood gas analysis
5. nuclear medicine services which include nuclear cardiology
6. echocardiography
7. pulmonary function testing
8. microbiology studies
9. Coronary Care Units (CCU's)
10. medical telemetry/progressive care
11. perfusion

Backup physician personnel in the following specialties should be available in emergency situations:

1. cardiology
2. anesthesiology
3. pathology
4. thoracic surgery
5. radiology

Each applicant shall document plans for providing cardiac rehabilitation services to its patients or plans for establishing referral agreements with facilities offering cardiac rehabilitation services.

Adult open heart surgery services should be available within 60 minutes' one-way automobile travel for 90% of the population. A pediatric cardiac surgical service should provide services for a minimum service area population with 30,000 live births, or roughly 2 million people. Open heart surgery for elective procedures should be available at least 40 hours per week, and elective open heart surgery should be accessible with a waiting time of no more than two weeks. All facilities providing open heart surgery must conform to local, state, and federal regulatory requirements and should meet the full accreditation standards

for The Joint Commission (TJC), if the facility is TJC accredited.

**CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. *The establishment of an open heart surgery program requires Certificate of Need review.*
2. Comprehensive cardiac catheterization laboratories shall only be located in hospitals that provide open heart surgery.
3. The capacity of an open heart surgery program is 500 open heart procedures per year per open heart surgery unit (*i.e.*, each operating room equipped and staffed to perform open heart surgery has a maximum capacity of 500 procedures annually).
4. There should be a minimum of 200 adult open heart surgery procedures performed annually per open heart surgery unit within three years after initiation in any institution in which open heart surgery is performed for adults. In institutions performing pediatric open heart surgery there should be a minimum of 100 pediatric heart operations per open heart surgery unit; at least 75 should be open heart surgery.
5. New open heart surgery services shall be approved only if the following conditions are met:
  - a. Each existing unit in the service area (defined as all facilities within 60 minutes" one way automobile travel, excluding any facilities located in either North Carolina or Georgia) is performing an annual minimum of 350 open heart surgery procedures per open heart surgery unit for adult services (70 percent of functional capacity). The standard for pediatric open heart cases in pediatric services is 130 procedures per unit. An exception to this requirement may be authorized should an applicant meet both of the following criteria:
    - 1) There are no open heart surgery programs located in the same county as the applicant; and
    - 2) The proposed facility currently offers cardiac catheterization services and provided a minimum of 1,200 diagnostic procedures, as measured on an equivalent basis, in the previous year of operation.
  - b. An applicant must project that the proposed service will perform a minimum of 200 adult open heart surgery procedures annually per open heart surgery unit within three years after initiation (the standard for pediatric open heart surgery shall be 100 procedures annually per open heart surgery unit within three years after initiation):

- 1) The applicant shall provide epidemiological evidence of the incidence and prevalence of conditions for which open heart surgery is appropriate within the proposed service area, to include the number of potential candidates for these procedures;
- 2) The applicant shall provide an explanation of how the applicant projects the utilization of the service and the effect of its projected utilization on other open heart surgery services, including:
  - a) The number of patients of the applicant hospital who were referred to other open heart surgery services in the preceding three years and the number of these patients who could have been served by the proposed service;
  - b) The number of additional patients, if any, who will be generated through changes in referral patterns, recruitment of specific physicians, or other changes in circumstances. The applicant shall document the services, if any, from which these patients will be drawn; and
  - c) The existing and projected patient origin information and referral patterns for each open heart surgery service serving patients from the area proposed to be served shall be provided.
6. No new open heart surgery programs shall be approved if the new program will cause the annual caseload of other programs within the proposed service area to drop below 350 adult procedures or 130 pediatric procedures per open heart surgery unit.
7. *A one-time incremental expansion of one open heart surgery unit shall not be considered a substantial expansion of a health service, and therefore shall not be grounds for Certificate of Need review.* Expansion of an existing open heart surgery service beyond the one-time incremental increase of one open heart unit shall only be approved if the service has operated at a minimum use rate of 70 percent of capacity for each of the past two years and can project a minimum of 200 procedures per year in the new open heart surgery unit. The applicant shall document the other service providers, if any, from which these additional patients will be drawn.
8. The application shall include standards adopted or to be adopted by the service, consistent with current medical practice as published by clinical professional organizations, such as the American College of Cardiology or the American Heart Association, defining high-risk procedures and patients who, because of their conditions, are at high risk and shall state whether high-risk cases are or will be

performed or high-risk patients will be served.

9. Open heart surgery services should be staffed by a minimum of two physicians licensed by the State of South Carolina who possess the qualifications specified by the governing body of the facility. Protocols should be established that govern initial and continuing granting of clinical staff privileges to physicians to perform open heart surgery and therapeutic cardiac catheterizations. In addition, standards should be established to assure that each physician using the service will be involved in adequate numbers of applicable types of open heart surgery and therapeutic cardiac catheterizations to maintain proficiency.
10. The open heart surgery service will have the capability for emergency coronary artery surgery, including:
  - a. Sufficient personnel and facilities available to conduct the coronary artery surgery on an immediate, emergency basis, 24 hours a day, 7 days a week;
  - b. Location of the cardiac catheterization laboratory(ies) in which therapeutic catheterizations will be performed near the open heart surgery operating rooms; and
  - c. A predetermined protocol adopted by the cardiac catheterization service governing the provision of percutaneous transluminal coronary angioplasty (PTCA) and other therapeutic or high-risk cardiac catheterization procedures or the catheterization of patients at high risk and defining the plans for the patients' emergency care. These high-risk procedures should only be performed with open heart surgery backup. The cardiac team must be promptly available and capable of successfully operating on unstable acute ischemic patients in an emergency setting.
11. The Department encourages all applicants and providers to share their outcomes data with appropriate registries and research studies designed to improve the quality of cardiac care.
12. An applicant for open heart surgery service agrees, as a condition for issuance of its Certificate of Need for such service, to discontinue services and surrender the Certificate of Need for that service if they have failed to achieve 200 open heart procedures per open heart unit per year by the expiration of the first three years of operation of such services. One time incremental expansions of one open heart unit are subject to the same threshold, and any such unit shall be closed if it does not achieve 200 open heart procedures within three years of the expansion.

13. The expansion of an existing open heart surgery service beyond the incremental expansion described above shall only be approved if the service has operated at a minimum use rate of 70 percent of capacity, overall, for each of the past two years and can project a minimum of 200 procedures per year in the new open heart surgery units. The applicant shall document the other service providers, if any, from which these additional patients will be drawn.

The Open Heart Units Chart is located at the end of this Chapter.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Community Need Documentation;
2. Distribution (Accessibility);
3. Ability to Complete the Project;
4. Cost Containment;
5. Record of the Applicant;
6. Staff Resources; and
7. Adverse Effects on Other Facilities.

The Department makes the following findings:

- (1) Open heart surgery services are available within sixty (60) minutes' travel time for the majority of residents of South Carolina;
- (2) Based upon the standards cited above, most of the open heart surgery providers are currently utilizing less than the functional capability (*i.e.*, 70% of maximum capacity) of their existing surgical suites;
- (3) The preponderance of the literature on the subject indicates that a minimum number of procedures is recommended per year in order to develop and maintain physician and staff competency in performing these procedures; and
- (4) Increasing geographic access may create lower volumes in existing programs causing a potential reduction in quality and efficiency, exacerbate existing problems regarding the availability of nursing staff and other personnel, and not necessarily reduce waiting time since other factors (such as the referring physician's preference) would still need to be addressed.
- (5) Research has shown a positive relationship between the volume of open heart surgeries performed annually at a facility and patient outcomes. Thus, the

Department establishes minimum standards that must be met by a hospital in order to provide open heart surgery. Specifically, a hospital is required to project a minimum of 200 open heart surgeries annually within three years of initiation of services. This number is considered to be the minimum caseload required to operate a program that maintains the skill and efficiency of hospital staff and reflects an efficient use of an expensive resource. It is in the public's interest that facilities achieve their projected volumes.

- (6) The Department recognizes the important correlation between volume and proficiency. The Department further recognizes that the number of open heart surgery cases is decreasing and that maintaining volume in programs is very important to the provision of quality care to the community.

The benefits of improved accessibility will not outweigh the adverse effects of duplication in evaluating Certificate of Need applications for this service.

**CARDIAC CATHETERIZATION PROCEDURES  
(Chapter 8)**

| Facility by Region                                    | # Cath<br>Labs | 2013          |                |                |      |              |       |              | 2014          |                |                |      |              |       |              | 2015 <sup>1</sup> |                |                |      |              |       |              |
|-------------------------------------------------------|----------------|---------------|----------------|----------------|------|--------------|-------|--------------|---------------|----------------|----------------|------|--------------|-------|--------------|-------------------|----------------|----------------|------|--------------|-------|--------------|
|                                                       |                | Diag          | Adult<br>Therp | Total<br>Equiv | Diag | Ped<br>Therp | Other | Total        | Diag          | Adult<br>Therp | Total<br>Equiv | Diag | Ped<br>Therp | Other | Total        | Diag              | Adult<br>Therp | Total<br>Equiv | Diag | Ped<br>Therp | Other | Total        |
| <b>Region I</b>                                       |                |               |                |                |      |              |       |              |               |                |                |      |              |       |              |                   |                |                |      |              |       |              |
| Anmed Health Medical Center                           | 6              | 2,146         | 1,396          | 4,938          |      |              |       |              | 1,981         | 1,235          | 4,451          |      |              |       |              | 1,723             | 1,023          | 3,768          |      |              |       |              |
| GHS Greenville Memorial Hospital                      | 5              | 2,328         | 1,715          | 5,758          |      |              |       |              | 1,962         | 1,531          | 5,024          |      |              |       |              | 1,914             | 1,753          | 5,420          |      |              |       |              |
| Saint Francis - Downtown                              | 4              | 1,925         | 945            | 3,815          |      |              |       |              | 2,004         | 1,246          | 4,496          |      |              |       |              | 2,053             | 1,229          | 4,511          |      |              |       |              |
| Self Regional Healthcare                              | 2              | 1,074         | 359            | 1,792          |      |              |       |              | 847           | 349            | 1,545          |      |              |       |              | 885               | 447            | 1,779          |      |              |       |              |
| GHS Oconee Memorial Hospital                          | 1              | 509           | 0              | 509            |      |              |       |              | 358           | 0              | 358            |      |              |       |              | 228               | 0              | 228            |      |              |       |              |
| Baptist Easley Hospital                               | 1              | 193           | 0              | 193            |      |              |       |              | 167           | 0              | 167            |      |              |       |              | 112               | 0              | 112            |      |              |       |              |
| Mary Black Hospital Systems                           | 2              | 42            | 0              | 42             |      |              |       |              | 49            | 0              | 49             |      |              |       |              | 82                | 0              | 82             |      |              |       |              |
| Spartanburg Medical Center                            | 4              | 1,794         | 761            | 3,316          |      |              |       |              | 1,896         | 751            | 3,398          |      |              |       |              | 1,849             | 937            | 3,723          |      |              |       |              |
| Pelham Medical Center                                 | 1              | 0             | 0              | 0              |      |              |       |              | 0             | 0              | 0              |      |              |       |              | 0                 | 0              | 0              |      |              |       |              |
| <b>Total Region I</b>                                 | <b>26</b>      | <b>10,011</b> | <b>5,176</b>   | <b>20,363</b>  |      |              |       |              | <b>9,264</b>  | <b>5,112</b>   | <b>19,488</b>  |      |              |       |              | <b>8,846</b>      | <b>5,389</b>   | <b>19,623</b>  |      |              |       |              |
| <b>Region II</b>                                      |                |               |                |                |      |              |       |              |               |                |                |      |              |       |              |                   |                |                |      |              |       |              |
| Aiken Regional Medical Centers                        | 1              | 835           | 299            | 1,433          |      |              |       |              | 691           | 257            | 1,205          |      |              |       |              | 701               | 283            | 1,267          |      |              |       |              |
| Kershaw Health                                        | 1              | 610           | 0              | 610            |      |              |       |              | 666           | 0              | 666            |      |              |       |              | <b>NR</b>         | <b>NR</b>      | <b>NR</b>      |      |              |       |              |
| Springs Memorial Hospital                             | 1              | 398           | 0              | 398            |      |              |       |              | 397           | 0              | 397            |      |              |       |              | 271               | 0              | 271            |      |              |       |              |
| Lexington Medical Center                              | 3              | 1,801         | 764            | 3,329          |      |              |       |              | 1,895         | 801            | 3,497          |      |              |       |              | 2,140             | 791            | 3,722          |      |              |       |              |
| Palmetto Health Baptist                               | 1              | 355           | 0              | 355            |      |              |       |              | 444           | 0              | 444            |      |              |       |              | 485               | 0              | 485            |      |              |       |              |
| Palmetto Health Richland                              | 4              | 3,120         | 1,247          | 5,614          |      |              |       |              | 3,070         | 1,284          | 5,638          |      |              |       |              | 3,153             | 1,254          | 5,661          |      |              |       |              |
| Providence Health <b>2</b>                            | 7              | 2,844         | 1,687          | 6,218          |      |              |       |              | 2,440         | 1,396          | 5,232          |      |              |       |              | 3,136             | 1,553          | 5,458          |      |              |       |              |
| Piedmont Medical Center                               | 3              | 1,266         | 672            | 2,610          |      |              |       |              | 1,166         | 667            | 2,500          |      |              |       |              | 1,211             | 766            | 3,146          |      |              |       |              |
| <b>Total Region II</b>                                | <b>20</b>      | <b>11,229</b> | <b>4,669</b>   | <b>20,567</b>  |      |              |       |              | <b>10,769</b> | <b>4,405</b>   | <b>19,579</b>  |      |              |       |              | <b>11,097</b>     | <b>4,647</b>   | <b>20,010</b>  |      |              |       |              |
| <b>Region III</b>                                     |                |               |                |                |      |              |       |              |               |                |                |      |              |       |              |                   |                |                |      |              |       |              |
| Carolina Pines Regional Medical Center                | 1              | 97            | 0              | 97             |      |              |       |              | 116           | 0              | 116            |      |              |       |              | 205               | 0              | 205            |      |              |       |              |
| Carolinas Hospital System                             | 3              | 759           | 184            | 1,127          |      |              |       |              | 660           | 233            | 1,126          |      |              |       |              | 747               | 225            | 1,197          |      |              |       |              |
| McLeod Regional Medical Center of the Pee Dee         | 5              | 1,242         | 518            | 2,278          |      |              |       |              | 1,419         | 542            | 2,503          |      |              |       |              | 1,521             | 639            | 2,799          |      |              |       |              |
| Tidelands Georgetown Memorial Hospital                | 2              | 681           | 73             | 827            |      |              |       |              | 717           | 56             | 829            |      |              |       |              | 670               | 94             | 858            |      |              |       |              |
| Conway Hospital                                       | 1              | 683           | 0              | 683            |      |              |       |              | 774           | 0              | 774            |      |              |       |              | 693               | 0              | 693            |      |              |       |              |
| Grand Strand Medical Center                           | 4              | 1,714         | 893            | 3,500          |      |              |       |              | 2,090         | 911            | 3,912          |      |              |       |              | 2,422             | 1,057          | 4,536          |      |              |       |              |
| McLeod Loris <b>3</b>                                 | 0              | 264           | 0              | 264            |      |              |       |              | 282           | 0              | 282            |      |              |       |              | 294               | 0              | 294            |      |              |       |              |
| McLeod Seacoast <b>3</b>                              | 1              | 0             | 0              | 0              |      |              |       |              | 0             | 0              | 0              |      |              |       |              | 0                 | 0              | 0              |      |              |       |              |
| Palmetto Health Tuomey                                | 1              | 166           | 0              | 166            |      |              |       |              | 160           | 0              | 160            |      |              |       |              | 84                | 0              | 84             |      |              |       |              |
| <b>Total Region III</b>                               | <b>18</b>      | <b>5,606</b>  | <b>1,668</b>   | <b>8,942</b>   |      |              |       |              | <b>6,218</b>  | <b>1,742</b>   | <b>9,702</b>   |      |              |       |              | <b>6,636</b>      | <b>2,015</b>   | <b>10,666</b>  |      |              |       |              |
| <b>Region IV</b>                                      |                |               |                |                |      |              |       |              |               |                |                |      |              |       |              |                   |                |                |      |              |       |              |
| Beaufort Memorial Hospital                            | 1              | 300           | 34             | 368            |      |              |       |              | 447           | 133            | 713            |      |              |       |              | 494               | 147            | 788            |      |              |       |              |
| Hilton Head Hospital                                  | 2              | 318           | 169            | 656            |      |              |       |              | 433           | 227            | 887            |      |              |       |              | 299               | 172            | 643            |      |              |       |              |
| Bon Secours - St. Francis Xavier <b>4</b>             | 1              | 3             | 0              | 3              |      |              |       |              | 4             | 0              | 4              |      |              |       |              | 3                 | 0              | 3              |      |              |       |              |
| East Cooper Medical Center <b>5</b>                   | 1              | 0             | 0              | 0              |      |              |       |              | 0             | 0              | 0              |      |              |       |              | 0                 | 0              | 0              |      |              |       |              |
| MUSC Medical Center                                   | 6              | 1,692         | 1,326          | 4,344          | 262  | 260          | 110   | 1,414        | 1,697         | 1,156          | 4,009          | 285  | 284          | 112   | 1,534        | 1,436             | 1,124          | 3,684          | 197  | 272          | 61    | 1,271        |
| Roper Berkeley Hospital <b>6</b>                      | 1              | 0             | 0              | 0              |      |              |       |              | 0             | 0              | 0              |      |              |       |              | 0                 | 0              | 0              |      |              |       |              |
| Roper Hospital                                        | 3              | 1,651         | 908            | 3,467          |      |              |       |              | 1,578         | 896            | 3,370          |      |              |       |              | 1,568             | 883            | 3,334          |      |              |       |              |
| Trident Medical Center                                | 2              | 995           | 479            | 1,953          |      |              |       |              | 1,007         | 445            | 1,897          |      |              |       |              | 1,081             | 525            | 2,131          |      |              |       |              |
| Regional Medical Center of Orangeburg & Calhoun Count | 1              | 238           | 0              | 238            |      |              |       |              | 215           | 0              | 215            |      |              |       |              | 299               | 0              | 299            |      |              |       |              |
| <b>Total Region IV</b>                                | <b>18</b>      | <b>5,197</b>  | <b>2,916</b>   | <b>11,029</b>  |      |              |       | <b>1,414</b> | <b>5,381</b>  | <b>2,857</b>   | <b>11,095</b>  |      |              |       | <b>1,534</b> | <b>5,180</b>      | <b>2,851</b>   | <b>10,882</b>  |      |              |       | <b>1,271</b> |
| <b>Statewide Totals</b>                               | <b>82</b>      | <b>32,043</b> | <b>14,429</b>  | <b>60,901</b>  |      |              |       | <b>1,414</b> | <b>31,632</b> | <b>14,116</b>  | <b>59,864</b>  |      |              |       | <b>1,534</b> | <b>31,759</b>     | <b>14,902</b>  | <b>61,181</b>  |      |              |       | <b>1,271</b> |

<sup>1</sup> Some figures adjusted by Revenue & Fiscal Affairs following ICD9/10 conversion.

<sup>2</sup> South Carolina Heart Center catheterization lab now controlled by Providence Health and reported in their utilization.

<sup>3</sup> CON SC-17-16 issued April 6, 2017 to transfer single cardiac catheterization lab from McLeod Loris Hospital to McLeod Seacoast Hospital.

<sup>4</sup> Cardiac catheterization lab closed August 1, 2016.

<sup>5</sup> CON SC-16-47 issued August 15, 2016 for addition of a single diagnostic cardiac catheterization lab for a total of one diagnostic catheterization lab.

<sup>6</sup> Approved July 25, 2016 for addition of a single diagnostic cardiac catheterization lab for a total of one diagnostic cardiac catheterization lab. Currently on appeal.

**OPEN HEART UNITS  
(Chapter 8)**

| Region/Facility                               | # Open Heart | FY 13  |      | FY 14  |      | FY 15 <sup>1</sup> |      |
|-----------------------------------------------|--------------|--------|------|--------|------|--------------------|------|
|                                               | Units        | Adults | Peds | Adults | Peds | Adults             | Peds |
| Region I                                      |              |        |      |        |      |                    |      |
| Anmed Health Medical Center                   | 2            | 217    |      | 200    |      | 210                |      |
| GHS Greenville Memorial Hospital              | 3            | 473    |      | 400    |      | 454                |      |
| Saint Francis - Downtown                      | 2            | 336    |      | 311    |      | 323                |      |
| Self Regional Healthcare                      | 1            | 113    |      | 85     |      | 77                 |      |
| Spartanburg Medical Center                    | 3            | 430    |      | 467    |      | 443                |      |
| Total Region I                                | 11           | 1,569  |      | 1,463  |      | 1,507              |      |
| Region II                                     |              |        |      |        |      |                    |      |
| Aiken Regional Medical Centers                | 1            | 30     |      | 33     |      | 55                 |      |
| Lexington Medical Center                      | 1            | 212    |      | 294    |      | 312                |      |
| Palmetto Health Richland                      | 2            | 353    |      | 344    |      | 349                |      |
| Piedmont Medical Center                       | 2            | 105    |      | 102    |      | 164                |      |
| Providence Health                             | 4            | 559    |      | 500    |      | 546                |      |
| Total Region II                               | 10           | 1,259  |      | 1,273  |      | 1,426              |      |
| Region III                                    |              |        |      |        |      |                    |      |
| Carolinas Hospital System                     | 1            | 97     |      | 101    |      | 97                 |      |
| Grand Strand Medical Center                   | 2            | 238    |      | 418    |      | 427                |      |
| McLeod Regional Medical Center of the Pee Dee | 3            | 407    |      | 279    |      | 403                |      |
| Total Region III                              | 6            | 742    |      | 798    |      | 927                |      |
| Region IV                                     |              |        |      |        |      |                    |      |
| Hilton Head Hospital                          | 2            | 76     |      | 74     |      | 86                 |      |
| MUSC Medical Center                           | 4            | 318    | 205  | 360    | 191  | 423                | 237  |
| Roper Hospital                                | 2            | 408    |      | 424    |      | 474                |      |
| Trident Medical Center                        | 1            | 248    |      | 238    |      | 241                |      |
| Total Region IV                               | 9            | 1,050  | 205  | 1,096  | 191  | 1,224              | 237  |
| Statewide Totals                              | 36           | 4,620  | 205  | 4,630  | 191  | 5,084              | 237  |

<sup>1</sup> Some figures adjusted by Revenue & Fiscal Affairs following ICD9/10 conversion

## CHAPTER 9

### RADIATION ONCOLOGY

Cancer is a group of related diseases that involve out-of-control growth and spread of abnormal cells. These cells accumulate and form tumors that invade and destroy normal tissue. The American Cancer Society (ACS) estimates that 1 in 2 men and 1 in 3 women will suffer from cancer during their lifetimes. The most common types of cancer include prostate cancer for men, breast and uterine cancer for women, whereas lung and colon cancer are a common occurrence in both genders. The Department tracks the occurrence of cancer in the State, including identification of "[cancer cluster](#)" locations, through the [South Carolina Central Cancer Registry](#).

Megavoltage radiation has been utilized for decades as a standard modality for cancer treatment. It is best known as Radiation Therapy, but is also called Radiotherapy, X-Ray Therapy, or Irradiation. Beams of ionizing radiation are aimed to meet at a specific point and deliver radiation to that precise location. The amount of radiation used is measured in "gray" (Gy) and varies depending on the type and stage of cancer being treated. Radiation damages both cancer cells and normal cells, so the goal is to damage as many cancer cells as possible, while limiting harm to nearby healthy tissue. A typical course of treatment lasts for two to ten weeks, depending on the type of cancer and the treatment goal.

#### Relevant Definitions

There are varying types of radiation treatment, and definitions are often used interchangeably. The following definitions apply:

["Adaptive Radiation Therapy \(ART\)"](#) – Patient setup and/or radiation delivery is evaluated and modified periodically during the treatment course based on imaging and dose measurements made prior to or during treatment.

["Conformal Radiation Therapy \(CRT\)"](#) – Since the target often has a complex shape, CT, MRI, or PET is used to create a 3-D image of the tumor. Using the image, the computer designs the radiation beams to be shaped exactly (conform) to the contour of the treatment area. This type of therapy is provided through a number of methods known by different names.

["Electronic Portal Imaging Devices \(EPIDs\)"](#) have been developed because of the increased complexity of treatment planning and delivery techniques. The most common EPIDs are video-based systems wherein on-line digital port images are captured and analyzed before or during treatment. These systems are used for pre-treatment verification of Intensity Modulated Radiation Therapy fields and to reduce errors in patient positioning.

["Fractionation"](#) is the practice of providing only a small fraction of the entire prescribed dose of radiation in each treatment or session. Individual treatment plans are created to minimize the side effects for normal tissue. The typical fractionation schedule for adults is once per day, five days a week. Hyperfractionation (Superfractionation) refers to radiation given in smaller doses twice a day. In Hypofractionation, individual doses are given less often than daily, such as in two-five sessions.

["Image-Guided Radiation Therapy \(IGRT\)"](#) visualizes (by means of EPIDs, kV scans or mV scans) the patient's anatomy during treatments. This allows for confirmation of beam location and adjustment of the beams if needed during treatments due to breathing. IGRT facilitates more accurate patient positioning and reduces healthy tissue damage.

["Intensity Modulated Radiation Therapy \(IMRT\)"](#) creates a 3-D radiation dose map to treat the tumor. It uses a multi-leaf collimator to modulate or control the outlines and intensity of the radiation field during cancer treatment. Due to its precision it can spare more healthy tissue, but it also requires detailed data collection and takes longer than conventional therapy.

["Stereotactic Body Radiation Therapy \(SBRT\)"](#) is a precision radiation therapy delivery concept derived from cranial stereotactic radiosurgery. It is characterized by one to five fraction delivery of focal high-dose radiation while limiting dose to surrounding normal tissues. SBRT has become an established treatment technique for lung, liver, and spinal lesions.

["Stereotactic Radiosurgery \(SRS\)"](#) is a single-session procedure used to treat brain tumors and other brain disorders that cannot be treated by regular surgery. The radiation dose given in one session is usually less than the total dose that would be given with radiation therapy. However, the tumor receives a very high one-time dose of radiation with radiosurgery versus smaller fractions over time with radiation therapy. It is also known as Stereotaxic Radiosurgery or Radiation Surgery.

["Stereotactic Radiation Therapy \(SRT\)"](#) is an approach similar to Stereotactic Radiosurgery that delivers radiation to the target tissue. However, the total dose of radiation is divided into several smaller doses given over several days, rather than a single large dose. The treatment time per session typically ranges from 30 to 90 minutes' for two-five sessions. It can be used to treat both brain and extracranial tumors.

## **TYPES OF RADIATION EQUIPMENT**

### **Particle Beam (Proton)**

Particle beams use heavy charged subatomic particles to deliver radiation to the tumor. Most tumors could be cured with a sufficiently high dose of radiation; however, such a treatment

is ineffective due to collateral damage to healthy tissue. Particle therapy can lessen the damage to healthy tissue by tailoring the particle (either a proton particle or a heavier carbon particle) dose to the tumor. Unfortunately, this promising treatment option is not readily available.

#### Linear Accelerator (X-Ray or LINAC)

The LINAC produces high energy x-rays that are collected to form a beam that matches the size and shape of the patient's tumor. Radiation can be delivered to the tumor from any angle by a rotating robotic arm. A LINAC must be located in a room with lead and concrete walls to keep the rays from escaping. A conventional LINAC requires modifications, such as additional equipment, in order to be used for IMRT or other advanced techniques.

Minimal equipment requirements for a linear accelerator include:

1. At least 1 teletherapy unit, with an energy exceeding 1 megavolt (MV); the distance from the source to the isocenter must be at least 80 cm.
2. Access to an electron beam source or a low energy X-ray unit.
3. Adequate equipment to calibrate and measure dosimetric characteristics of all treatment units in the department.
4. Capability to provide appropriate dose distribution information for external beam treatment.
5. Equipment for accurate simulation of the treatment units in the department (in general, one simulator can service 2-3 megavoltage treatment units).
6. Field-shaping capability.
7. Access to CT scanning capability.

The capacity standards for a linear accelerator vary by the capability of the equipment and are addressed in the Standards below.

There is also LINAC equipment designed strictly to provide Stereotactic Radiotherapy in 1-5 treatment sessions. These specialized LINACs have an even lower capacity because of the treatment time associated with this type of care. The capacity for such equipment is established as 1,500 treatments per year per unit.

#### Cobalt-60 (Photon)

This modality, best known by the trade name of Gamma Knife, is used to perform Stereotactic Radiosurgery. It is primarily used to treat brain tumors, although it can also be used for other neurological conditions like Parkinson's Disease and Epilepsy. Its use is generally reserved for cancers that are difficult or dangerous to treat with surgery. The radiation damages the genetic code of the tumor in a single treatment, preventing it from replicating and causing it to slowly shrink.

The Gamma Knife consists of a large shield surrounding a large helmet-shaped device with separate, fixed ports that allow the radiation to enter the patient's head in small beams that converge on the designated target. A rigid frame is attached to the patient's skull to provide a solid reference for both targeting and treatment. The patient is then sent for imaging, to accurately determine the position of the target. The computer system develops a treatment plan to position the patient and the paths and doses of radiation. The patient is positioned with the head affixed to the couch, and the treatment is delivered.

#### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS FOR RADIOTHERAPY**

1. The capacity of a conventional linear accelerator, either with or without EPID, is 7,000 treatments per year.
2. Linear accelerators providing IMRT or IGRT have a capacity of 5,000 treatments per year. A facility must document that it is providing or will provide these specialized treatments in sufficient volume to justify why it should be held to this planning capacity.
3. IMRT/IGRT linear accelerators performing stereotactic procedures have a capacity of 4,500 treatments per year. A facility must document that it is providing or will provide these specialized treatments in sufficient volume to justify why it should be held to this planning capacity.
4. Linear Accelerators designed strictly to provide Stereotactic Radiotherapy have a capacity of 1,500 treatments per year. A facility must document that it is providing or will provide these specialized treatments in sufficient volume to justify why it should be held to this planning capacity.
5. There are 13 service areas established for Radiotherapy units.
6. New Radiotherapy services shall only be approved if the following conditions are met:
  - a. All existing units in the service area have performed at a combined use rate of 80 percent of capacity as evidenced in the most recent Joint Annual Reports preceding the filing of the applicant's Certificate of Need application; and
  - b. An applicant must project that the proposed service will perform a minimum number of treatments equal to 50 percent of capacity annually within three years of initiation of services, without reducing the utilization of the existing machines in the service area below the 80 percent threshold. If the new equipment is a specialized radiotherapy unit as described in Standards 2, 3 or 4 above, then the applicant may propose an annual capacity based on the

specialized use of the equipment by that applicant. If the applicant can justify this proposed annual capacity, then this capacity will be used in Certificate of Need application calculations, as well as future capacity calculations, for that applicant. The applicant must document where the potential patients for this new service will come from and where they are currently being served, to include the expected shift in patient volume from existing providers.

7. Expansion of an existing service, whether the expansion occurs at the existing site or at an alternate location in the service area, shall only be approved if the service has operated at a minimum use rate of 80 percent of capacity for each of the past two years and can project a minimum use rate of 50 percent of capacity per year on the additional equipment within three years of its implementation. If the additional equipment is a specialized radiotherapy unit as described in either Standards 2, 3 or 4 above, then the existing provider may propose an annual capacity for that additional equipment, based on the specialized use of the equipment by that applicant. If the applicant can justify this proposed annual capacity, then this capacity will be used in CON application calculations, as well as future capacity calculations, for that applicant.
8. The applicant shall project the utilization of the service and document referral sources for patients within its service area, including letters of support from physicians and health care facilities indicating a willingness to refer patients to the proposed service.
9. The applicant must affirm the following:
  - a. All treatments provided will be under the control of a board certified or board eligible radiation oncologist;
  - b. The applicant will have access to a radiation physicist certified or eligible for certification by the American Board of Radiology or its equivalent;
  - c. The applicant will have access to simulation equipment capable of precisely producing the geometric relationships of the equipment to be used for treatment of the patient;
  - d. The applicant will have access to a custom block design and cutting system; and
  - e. The institution shall operate its own tumor registry or actively participate in a central tumor registry.

The Megavoltage Visits Chart and Radiotherapy Chart are located at the end of this Chapter.

### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating Certificate of Need applications for these services:

1. Compliance with the Need Outlined in this Section of the Plan;
2. Community Need Documentation;
3. Distribution (Accessibility);
4. Cost Containment; and
5. Medically Underserved Groups.

Radiotherapy services are distributed statewide and are located within sixty (60) minutes' travel time for the majority of residents of the State. The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for this service.

### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS FOR STEREOTACTIC RADIOSURGERY**

1. The capacity of a dedicated Stereotactic Radiosurgery unit is 300 procedures annually. This is based on an average of two procedures per day times three days per week times 50 weeks per year.
2. New Radiosurgery services shall only be approved if the following conditions are met:
  - a. All existing dedicated Stereotactic Radiosurgery units in the service area have performed at a combined use rate of 80 percent of capacity as evidenced in the most recent Joint Annual Reports; and
  - b. An applicant must project that the proposed service will perform a minimum of 200 procedures annually within three years of initiation of service, without reducing the utilization of existing units below the 80 percent threshold.
3. Expansion of an existing radiosurgery service shall only be approved if the service has operated at a minimum use rate of 80 percent of capacity for each of the prior two years and can project a minimum of 200 procedures per year on the additional equipment within three years of its implementation.
4. The applicant shall project the utilization of the service, to include:
  - a. Epidemiological evidence of the incidence and prevalence of conditions for which radiosurgery treatment is appropriate, to include the number of potential patients for these procedures;

- b. The number of patients of the applicant who were referred to other radiosurgery providers in the preceding three years and the number of those patients who could have been served by the proposed service; and
  - c. Current and projected patient origin information and referral patterns for the facility's existing radiation therapy services. The applicant shall document the number of additional patients, if any, that will be generated through changes in referral patterns, recruitment of specific physicians or other changes in circumstances.
- 3. The applicant must include letters of support from physicians and health care facilities indicating a willingness to refer patients to the proposed service.
- 4. The applicant must document that protocols will be established to assure that all clinical radiosurgery procedures performed are medically necessary and that alternative treatment modalities have been considered.
- 5. The applicant must affirm the following:
  - a. The radiosurgery unit will have a board certified neurosurgeon and a board certified radiation oncologist, both of whom are trained in stereotactic radiosurgery;
  - b. The applicant will have access to a radiation physicist certified or eligible for certification by the American Board of Radiology or its equivalent;
  - c. Dosimetry and calibration equipment and a computer with the appropriate software for performing radiosurgical procedures will be available;
  - d. The applicant has access to a full range of diagnostic technology, including CT, MRI and angiography; and
  - e. The institution shall operate its own tumor registry or actively participate in a central tumor registry.
- 6. Due to the unique nature and limited need for this type of equipment, the applicant should document how it intends to provide accessibility for graduate medical education students in such fields as neurosurgery and oncology.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating

Certificate of Need applications for these services:

1. Community Need Documentation;
2. Distribution (Accessibility);
3. Record of the Applicant;
4. Cost Containment; and
5. Medically Underserved Groups.

The service area for a dedicated Stereotactic Radiosurgery unit is defined as all facilities within ninety (90) minutes' travel time. The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for this service.

**MEGAVOLTAGE VISITS  
(Chapter 9)**

| <b>Facility by Region</b>                                | <b>County</b> | <b># Units</b> | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015</b> |
|----------------------------------------------------------|---------------|----------------|----------------|----------------|----------------|
| <b>Region I</b>                                          |               |                |                |                |                |
| Anmed Health Medical Center                              | Anderson      | 2              | 12,816         | 10,916         | 12,568         |
| GHS Cancer Centers of the Carolinas - Andrews            | Greenville    | 1              | 3,619          | 4,613          | 3,811          |
| GHS Cancer Centers of the Carolinas - Eastside           | Greenville    | 1              | 7,116          | 3,567          | 6,849          |
| GHS Cancer Institute - Faris                             | Greenville    | 3              | 13,548         | 11,884         | 10,194         |
| GHS Cancer Institute - Greer                             | Greenville    | 1              | 4,183          | 4,177          | 2,627          |
| St. Francis Millennium Cancer Center <b>1</b>            | Greenville    | 1              | --             | --             | --             |
| GHS Cancer Institute- Seneca                             | Oconee        | 1              | 4,542          | 4,971          | 4,609          |
| Baptist Medical Center Easley <b>7</b>                   | Pickens       | 0              | --             | --             | --             |
| GHS Cancer Institute- Spartanburg                        | Spartanburg   | 1              | 3,058          | 3,168          | 2312           |
| Spartanburg Regional Medical Center <b>3</b>             | Spartanburg   |                |                |                |                |
| Linear Accelerators                                      |               | 4              | 17790          | 24594          | 19739          |
| Cyberknife                                               |               | 1              | --             | --             | --             |
| Self Regional Healthcare                                 | Greenwood     | 2              | 7,374          | 6,794          | 7,642          |
| <b>Region II</b>                                         |               |                |                |                |                |
| Aiken Regional Medical Center                            | Aiken         | 2              | 7,904          | 8,080          | 8,841          |
| Lancaster Radiation Therapy Center                       | Lancaster     | 1              | 2,675          | 5,290          | 4,513          |
| Lexington Medical Center                                 | Lexington     | 3              | 13,858         | 15,444         | 17,533         |
| Newberry Oncology Associates <b>2</b>                    | Newberry      | 1              | 2,675          | <b>NR</b>      | <b>NR</b>      |
| Palmetto Health Richland                                 | Richland      |                |                |                |                |
| Linear Accelerators                                      |               | 4              | 799            | 733            | 110            |
| Gamma Knife                                              |               | 1              | 158            | 159            | 100            |
| South Carolina Oncology Associates <b>2</b>              | Richland      | 4              | <b>NR</b>      | <b>NR</b>      | <b>NR</b>      |
| Radiation Oncology, LLC <b>2</b>                         | Richland      | 6              | 30,624         | 27,417         | <b>NR</b>      |
| Rock Hill Radiation Therapy Center                       | York          | 2              | 11,002         | 10,846         | 11,341         |
| <b>Region III</b>                                        |               |                |                |                |                |
| Carolinas Hospital System <b>2</b>                       | Florence      | 1              | 3,064          | 2,806          | <b>NR</b>      |
| McLeod Regional Medical Center - Pee Dee                 | Florence      | 4              | 17,147         | 14,976         | 12,587         |
| Georgetown Memorial Hospital <b>4</b>                    | Georgetown    | 1              | 6,393          | 6,398          | 5,501          |
| Carolina Regional Cancer Center                          | Horry         | 2              | 22,143         | 23,547         | 22,840         |
| Carolina Regional Cancer Center - Conway                 | Horry         | 1              | --             | --             | --             |
| Carolina Regional Cancer Center - Murrels Inlet <b>5</b> | Horry         | 1              | --             | --             | --             |
| Grand Strand Regional Medical Center <b>6</b>            | Horry         | 1              | 0              | 0              | 0              |
| Tuomey                                                   | Sumter        | 2              | 9,204          | 9,065          | 7,841          |
| <b>Region IV</b>                                         |               |                |                |                |                |
| SJC Oncology Services - SC                               | Beaufort      | 1              | 4,385          | 4,644          | 7,191          |
| Bon Secours St. Francis Xavier <b>2</b>                  | Charleston    | 1              | <b>NR</b>      | 6,557          | 7,328          |
| Beaufort Memorial Hospital                               | Beaufort      | 1              | 4,686          | 4,851          | 7,382          |
| MUSC Medical Center                                      | Charleston    |                |                |                |                |
| Linear Accelerators                                      |               | 5              | 19824          | 18871          | 19823          |
| Gamma Knife                                              |               | 1              | 202            | 213            | 258            |
| Roper Hospital                                           | Charleston    | 3              | 14,209         | 8,270          | 6,905          |
| Trident Medical Center                                   | Charleston    | 3              | 11,724         | 11,239         | 12,493         |
| Regional Medical Center of Orangeburg & Calhoun Counties | Orangeburg    | 2              | 6,761          | 5,739          | 5,607          |
| <b>Totals</b>                                            |               |                | <b>263,483</b> | <b>259,829</b> | <b>228,545</b> |

**1** Facility not operational until April 2016.

**2** Facility did not report required JAR data.

**3** Gibbs Regional Cancer Center utilization included with Spartanburg Regional Medical Center.

**4** CON SC-15-42 issued November 6, 2015 for relocation of an existing LINAC to a new facility.

**5** CON SC-16-09 issued March 7, 2016 for relocation and replacement of an existing LINAC at a new center.

**6** CON SC-16-10 issued March 7, 2016 for establishment of new radiation center attached to facility. Facility reported "0" utilization.

**7** SC-12-19 not implemented and CON has expired. Facility will be removed from inventory.

**RADIOTHERAPY  
(Chapter 9)**

| <u>Service Areas</u>                                            | <u>2015<br/>Population</u> | <u># OF<br/>LINAC</u> | <u>Pop<br/>Per<br/>LINAC</u> | <u>Total<br/>Area<br/>Treatments</u> | <u>Planning<br/>Area<br/>Capacity</u> | <u>Percent<br/>Capacity</u> |
|-----------------------------------------------------------------|----------------------------|-----------------------|------------------------------|--------------------------------------|---------------------------------------|-----------------------------|
| Anderson, Oconee                                                | 270405                     | 3                     | 90,135                       | 17177                                | 18,500                                | 92.8%                       |
| Greenville, Pickens                                             | 613554                     | 7                     | 87,651                       | 23481                                | 53,500                                | 43.9%                       |
| Cherokee, Spartanburg, Union                                    | 381273                     | 6                     | 63,546                       | 22051                                | 34,000                                | 64.9%                       |
| Chester, Lancaster, York                                        | 369304                     | 3                     | 123,101                      | 15854                                | 21,000                                | 75.5%                       |
| Abbeville, Edgefield, Greenwood,<br>Laurens, McCormick, Saluda  | 217666                     | 2                     | 108,833                      | 7642                                 | 14,000                                | 54.6%                       |
| Fairfield, Kershaw, Lexington,<br>Newberry, Richland            | 813246                     | 18                    | 45,180                       | 17743                                | 124,000                               | 14.3%                       |
| Chesterfield, Darlington, Dillon,<br>Florence, Marion, Marlboro | 342940                     | 5                     | 68,588                       | 12587                                | 32,500                                | 38.7%                       |
| Clarendon, Lee, Sumter                                          | 159151                     | 2                     | 79,576                       | 7841                                 | 14,000                                | 56.0%                       |
| Georgetown, Horry, Williamsburg                                 | 403032                     | 6                     | 67,172                       | 28341                                | 40,000                                | 70.9%                       |
| Bamberg, Calhoun, Orangeburg                                    | 118869                     | 2                     | 59,435                       | 5607                                 | 14,000                                | 40.1%                       |
| Allendale, Beaufort, Hampton,<br>Jasper                         | 236895                     | 2                     | 118,448                      | 14573                                | 14,000                                | 104.1%                      |
| Berkeley, Charleston, Colleton,<br>Dorchester                   | 782257                     | 12                    | 65,188                       | 46807                                | 56,500                                | 82.8%                       |
| Aiken, Barnwell                                                 | 187554                     | 2                     | 93,777                       | 8841                                 | 14,000                                | 63.2%                       |
| <b>State Total</b>                                              | <b>4,896,146</b>           | <b>70</b>             | <b>69,945</b>                | <b>228,545</b>                       | <b>450,000</b>                        | <b>50.8%</b>                |

## CHAPTER 10

### OUTPATIENT FACILITIES

[Outpatient facilities](#) provide community service for the diagnosis and treatment of ambulatory patients that is operated in connection with a hospital or as a freestanding facility under the professional supervision of a licensed physician. These facilities serve patients who do not require hospitalization and makes available a range of diagnostic and treatment services. Hospital-based outpatient departments vary in scope, but generally include diagnostic laboratory, radiology, and clinical referral services.

#### **AMBULATORY SURGICAL FACILITY**

Ambulatory surgery, often described as outpatient or same-day surgery, may be provided in a freestanding Ambulatory Surgical Facility (ASF). An ASF is a distinct, freestanding, entity that is organized, administered, equipped and operated exclusively for the purpose of performing surgical procedures or related care, treatment, procedures, and/or services, for which patients are scheduled to arrive, receive surgery, or related care, treatment, procedures, and/or services, and be discharged on the same day, as defined in [Regulation 61-91](#), Section 101.RR. The owner or operator makes the facility available to other providers who comprise an organized professional staff (open medical staff). This definition does not apply to any facility used as an office or clinic for the private practice of licensed health care professionals.

For purposes of this Plan, an [endoscope](#) is defined as a flexible, semi-flexible or rigid instrument, which may or may not have a light attached, that is inserted into a natural orifice in a non-sterile, clean environment, to visually inspect for purposes of screening and diagnosis and to perform therapeutic treatment of the interior of a bodily canal or a hollow organ (such as the colon, bladder, stomach or nasal sinuses).

A substantial increase has occurred in both the number and percentage of ambulatory surgeries performed and in the number of approved ASFs. This trend has generally been encouraged because many surgical procedures can be safely performed on an outpatient basis at a lower cost.

#### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. The county in which the proposed facility is to be located is considered to be the service area for inventory purposes. The applicant may define a proposed service area that encompasses additional counties.
2. The applicant must identify the physicians who are affiliated or have an ownership

interest in the proposed facility by medical specialty. These physicians must identify where they currently perform their surgeries and whether they anticipate making any changes in staff privileges or coverage should the application be approved.

3. For a new facility, the applicant must document where the potential patients for the facility will come from and where they are currently being served, to include the expected shift in patient volume from existing providers. For the expansion of an existing facility, the applicant must provide patient origin information on the current facility.
4. The applicant must document the need for the expansion of or the addition of an ASF, based on the most current utilization data available. This need documentation must include the projected number of surgeries or endoscopic procedures to be performed by medical specialty. The existing resources must be considered and documentation presented as to why the existing resources are not adequate to meet the needs of the community.
5. The applicant must document the potential impact that the proposed new ASF or expansion of an existing ASF will have upon the existing service providers.
6. The applicant must document whether it will restrict surgeries by specialty. Applicants that wish to restrict surgeries by specialty understand that *another Certificate of Need would be required* before the ASF could provide other surgical specialties. Applicants seeking to perform only endoscopic procedures are considered restricted.
7. Before an application for a new general Ambulatory Surgery Facility can be accepted for filing in a county having a current population of less than 100,000 people, all general ASFs in the county must have been licensed by the Department and operational for an entire year and must have submitted data on the Department's annual questionnaire to allow for a determination of their utilization. The requirements that all ASFs must have been licensed and operational for an entire year and submitted utilization data to the Department will not be applied to applicants for an ASF filing in a county having a current population of greater than 100,000 people.
8. Endoscopy suites are considered separately from other operating rooms and therefore are not considered competing applicants for Certificate of Need review purposes. Before an application for a new endoscopy-only ASF can be accepted for filing in a county having a current population of less than 100,000 people, all ASFs with endoscopy suites in the county must have been licensed by the Department and operational for an entire year and must have submitted data on the Department's annual questionnaire to allow for a determination of their utilization. The requirements that all ASFs with endoscopy suites must have been licensed and

operational for an entire year and submitted utilization data to the Department will not be applied to applicants for a new endoscopy-only ASF filing in a county having a current population of greater than 100,000 people.

9. The approval of a new general or endoscopy-only ASF in a county does not preclude an existing facility from applying to expand its number of operating rooms and/or endoscopy suites. The merger of two existing ASFs in a county to construct a consolidated ASF does not constitute a “new ASF” for the purpose of interpreting Standards 8 and 9.
10. The applicant for a new ambulatory surgery facility must provide a written commitment that the facility will accept Medicare and Medicaid patients, and that unreimbursed services for indigent and charity patients will be provided at a percentage that is comparable to all other existing ambulatory surgery facilities, if any, in the service area.

Facilities providing ambulatory surgery services must conform to local, state, and federal regulatory requirements and must commit to seek accreditation from CMS or any accrediting body with deemed status. Ambulatory surgical services are generally available within 30 minutes’ one-way automobile travel time of most South Carolina residents. Most ASFs operate five days a week, with elective surgery being scheduled several days in advance.

The Ambulatory Surgical Facility Utilization Chart is located at the end of this Chapter.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Community Need Documentation;
2. Distribution (Accessibility);
3. Projected Revenues;
4. Projected Expenses;
5. Record of the Applicant;
6. Cost Containment;
7. Medically Underserved Groups;
8. Staff Resources; and
9. Adverse Effects on Other Facilities.

The benefits of improved accessibility will be equally weighed with the adverse effects of duplication in evaluating Certificate of Need applications for this service.

## **FREESTANDING EMERGENCY HOSPITAL SERVICES**

The popularity of freestanding emergency hospital services is increasing as a means of providing ready access to such services at the community level.

### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. *A Certificate of Need is required to establish a freestanding emergency service.*
2. All off-campus emergency services must be an extension of an existing hospital's emergency service in the same county, unless the applicant is proposing to establish a freestanding emergency service in a county that does not have a licensed hospital. The hospital must have a license that is in good standing and must be in operation to support the off-campus emergency services.
3. [Regulation 61-16](#) will be used to survey off-campus emergency services, specifically including 24 hour/7 day per week physician coverage on site.
4. An off-campus emergency service must have written agreements with Emergency Medical Services providers and surrounding hospitals regarding serious medical problems, which the off-campus emergency service cannot handle.

The applicant must demonstrate need for this service by documenting capacity constraints within existing emergency departments in the service area and/or a travel time of greater than 15 minutes to an existing emergency department in the service area.

The Freestanding Emergency Services Chart is located at the end of this Chapter.

### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Community Need Documentation;
2. Distribution (Accessibility);
3. Medically Underserved Groups;
4. Record of the Applicant; and,
5. Staff Resources.

Access to emergency medical services should be available within fifteen (15) minutes travel time for the majority of residents of the State. The benefits of improved accessibility will outweigh the adverse effects of duplication in evaluating applications for this service.

**AMBULATORY SURGERY FACILITY UTILIZATION  
(Chapter 10)**

|                                                    |               | 2015                |                       |                              |                             |                        |                           |                              |                            |
|----------------------------------------------------|---------------|---------------------|-----------------------|------------------------------|-----------------------------|------------------------|---------------------------|------------------------------|----------------------------|
| <u>Facility by Region</u>                          | <u>County</u> | <u># of<br/>Ors</u> | <u># of<br/>Endos</u> | <u>Total #<br/>of Suites</u> | <u>Total<br/>Operations</u> | <u>Total<br/>Endos</u> | <u>Combined<br/>Total</u> | <u>Operations<br/>per OR</u> | <u>Endos<br/>per Suite</u> |
| <b>Region I</b>                                    |               |                     |                       |                              |                             |                        |                           |                              |                            |
| AnMed Health Medicus Surgery Center                | Anderson      | 3                   |                       | 3                            | 3,942                       | 464                    | 4,406                     | 1,469                        |                            |
| Upstate Endoscopy Center                           | Anderson      |                     | 2                     | 2                            |                             | 4,499                  | 4,499                     |                              | 2,250                      |
| GHS Cross Creek Surgery Center                     | Greenville    | 4                   |                       | 4                            | 4,690                       |                        | 4,690                     | 1,173                        |                            |
| Endoscopy Center of the Upstate *                  | Greenville    |                     | 3                     | 3                            |                             | 0                      | 0                         |                              | 0                          |
| Greenville Endoscopy Center                        | Greenville    |                     | 3                     | 3                            |                             | 6,063                  | 6,063                     |                              | 2,021                      |
| Greenville Endoscopy Center - Patewood             | Greenville    |                     | 3                     | 3                            |                             | 6,373                  | 6,373                     |                              | 2,124                      |
| GHS Patewood Outpatient Surgery Center             | Greenville    | 6                   | 2                     | 8                            | 6,525                       | 2,352                  | 8,877                     | 1,088                        | 1,176                      |
| Piedmont Surgery Center                            | Greenville    | 4                   |                       | 4                            | 3,957                       |                        | 3,957                     | 989                          |                            |
| Jervey Eye Center *                                | Greenville    | 3                   |                       | 3                            |                             | 0                      | 0                         | 0                            |                            |
| Upstate Surgery Center                             | Greenville    | 2                   |                       | 2                            | 2,684                       |                        | 2,684                     | 1,342                        |                            |
| Greenwood Endoscopy Center                         | Greenwood     |                     | 4                     | 4                            |                             | 8,835                  | 8,835                     |                              | 2,209                      |
| Surgery Center of the Lakelands                    | Greenwood     | 5                   |                       | 5                            | 4,199                       |                        | 4,199                     | 840                          |                            |
| Surgery & Laser Center at Professional Park        | Laurens       | 2                   |                       | 2                            | 3,480                       |                        | 3,480                     | 1,740                        |                            |
| Blue Ridge Surgery Center                          | Oconee        | 2                   |                       | 2                            | 1,985                       |                        | 1,985                     | 993                          |                            |
| Synergy Spine Center *                             | Oconee        | 2                   |                       | 2                            |                             | 0                      | 0                         | 0                            |                            |
| Ambulatory Surgery Center of Spartanburg           | Spartanburg   | 7                   | 2                     | 9                            | 7,053                       | 3,413                  | 10,466                    | 1,008                        | 1,707                      |
| Spartanburg Surgery Center                         | Spartanburg   | 4                   |                       | 4                            | 4,644                       |                        | 4,644                     | 1,161                        |                            |
| Surgery Center at Pelham                           | Spartanburg   | 4                   | 2                     | 6                            | 2,234                       | 1,144                  | 3,378                     | 559                          | 572                        |
| GHS Surgery Center - Spartanburg *                 | Spartanburg   | 2                   |                       | 2                            |                             | 0                      | 0                         | 0                            |                            |
| <b>Region II</b>                                   |               |                     |                       |                              |                             |                        |                           |                              |                            |
| Ambulatory Surgical Center of Aiken *              | Aiken         | 4                   | 1                     | 5                            |                             | 0                      | 0                         | 0                            | 0                          |
| Carolina Ambulatory Surgery Center                 | Aiken         | 1                   |                       | 1                            | 2,853                       |                        | 2,853                     | 2,853                        |                            |
| Center for Colon & Digestive Diseases *            | Aiken         |                     | 2                     | 2                            |                             | 0                      | 0                         |                              | 0                          |
| Surgery Center at Edgewater                        | Lancaster     | 3                   | 1                     | 4                            | 1,726                       | 23                     | 1,749                     | 575                          | 23                         |
| Chapin Orthopedic Surgery Center 1                 | Lexington     | 2                   |                       | 2                            |                             |                        |                           |                              |                            |
| Midlands Endoscopy Center                          | Lexington     |                     | 2                     | 2                            | 2643                        | 2,571                  | 5,214                     |                              | 2,607                      |
| Moore Orthopaedic Clinic Outpatient Surgery        | Lexington     | 4                   |                       | 4                            | 4,550                       |                        | 4,550                     | 1,138                        |                            |
| Outpt Surgery Center Lexington Med Ctr - Irmo      | Lexington     | 4                   |                       | 4                            | 1,898                       |                        | 1,898                     | 475                          |                            |
| Outpt Surgery Center Lexington Med Ctr - Lexington | Lexington     | 4                   | 1                     | 5                            | 2,829                       | 731                    | 3,560                     | 707                          | 731                        |
| South Carolina Endoscopy Center                    | Lexington     |                     | 4                     | 4                            |                             | 11,425                 | 11,425                    |                              | 2,856                      |
| Urology Surgery Center *                           | Lexington     | 2                   |                       | 2                            |                             | 0                      | 0                         | 0                            |                            |
| Berkeley Endoscopy Center                          | Richland      |                     | 2                     | 2                            |                             | 1,353                  | 1,353                     |                              | 677                        |
| Columbia Eye Surgery Center                        | Richland      | 4                   |                       | 4                            | 6,349                       |                        | 6,349                     | 1,587                        |                            |
| Columbia GI Endoscopy Center                       | Richland      |                     | 4                     | 4                            |                             | 4,297                  | 4,297                     |                              | 1,074                      |
| Lake Murray Endoscopy Center                       | Richland      |                     | 2                     | 2                            |                             | 2,248                  | 2,248                     |                              | 1,124                      |
| Midlands Orthopaedics Surgery Center               | Richland      | 4                   |                       | 4                            | 2,943                       |                        | 2,943                     | 736                          |                            |
| Palmetto Endoscopy Suite                           | Richland      |                     | 2                     | 2                            |                             | 3,969                  | 3,969                     |                              | 1,985                      |
| Palmetto Surgery Center                            | Richland      | 5                   |                       | 5                            | 5,104                       |                        | 5,104                     | 1,021                        |                            |
| South Carolina Endoscopy Center - Northeast        | Richland      |                     | 5                     | 5                            |                             | 6,562                  | 6,562                     |                              | 1,312                      |
| Carolina Colonoscopy Center *                      | Richland      |                     | 2                     | 2                            |                             | 0                      | 0                         |                              | 0                          |
| Carolina Surgical Center                           | York          | 4                   |                       | 4                            | 5,519                       |                        | 5,519                     | 1,380                        |                            |
| Center for Orthopaedic Surgery                     | York          | 3                   |                       | 3                            | 2,878                       |                        | 2,878                     | 959                          |                            |
| York County Endoscopy Center                       | York          |                     | 3                     | 3                            |                             | 6,166                  | 6,166                     |                              | 2,055                      |
| <b>Region III</b>                                  |               |                     |                       |                              |                             |                        |                           |                              |                            |
| Florence Surgery & Laser Center                    | Florence      | 2                   |                       | 2                            | 4,067                       |                        | 4,067                     | 2,034                        |                            |
| McLeod Ambulatory Surgery Center                   | Florence      | 2                   |                       | 2                            | 1,815                       |                        | 1,815                     | 908                          |                            |
| Physicians Surgical Center of Florence *           | Florence      | 4                   | 2                     | 6                            |                             | 0                      | 0                         | 0                            | 0                          |
| Bay Microsurgical Unit                             | Georgetown    | 1                   |                       | 1                            | 5,069                       |                        | 5,069                     | 5,069                        |                            |
| Carolina Coast Surgery Center                      | Georgetown    | 2                   |                       | 2                            | 682                         |                        | 682                       | 341                          |                            |
| Tidelands Georgetown Endoscopy Center              | Georgetown    |                     | 1                     | 1                            |                             | 1,046                  | 1,046                     |                              | 1,046                      |
| Tidelands Waccamaw Surgery Center                  | Georgetown    | 1                   |                       | 1                            | 942                         |                        | 942                       | 942                          |                            |
| Carolina Bone and Joint Surgery Center             | Horry         | 3                   |                       | 3                            | 2,859                       |                        | 2,859                     | 953                          |                            |
| Grande Dunes Surgery Center *                      | Horry         | 3                   | 1                     | 4                            |                             | 0                      | 0                         | 0                            | 0                          |
| Parkway Surgery Center                             | Horry         | 2                   |                       | 2                            | 5,035                       |                        | 5,035                     | 2,518                        |                            |
| Rivertown Surgery Center                           | Horry         | 3                   |                       | 3                            | 512                         | 441                    | 953                       | 318                          |                            |
| Strand GI Endoscopy Center                         | Horry         |                     | 2                     | 2                            |                             | 4,982                  | 4,982                     |                              | 2,491                      |
| Wesmark Ambulatory Surgery Center                  | Sumter        | 2                   |                       | 2                            | 6,169                       |                        | 6,169                     | 3,085                        |                            |
| <b>Region IV</b>                                   |               |                     |                       |                              |                             |                        |                           |                              |                            |
| Bluffton Okatie Surgery Center                     | Beaufort      | 2                   |                       |                              | 1,466                       | 601                    | 2,067                     | 1,034                        |                            |
| Laser and Skin Surgery Center                      | Beaufort      | 2                   |                       | 2                            | 1,548                       |                        | 1,548                     | 774                          |                            |
| Outpatient Surgery Center of Hilton Head           | Beaufort      | 3                   | 2                     | 5                            | 3,796                       | 3,200                  | 6,996                     | 1,265                        | 1,600                      |
| Roper Hospital Ambulatory Surgery Berkeley         | Berkeley      | 3                   |                       | 3                            | 412                         | 439                    | 851                       | 284                          |                            |

**AMBULATORY SURGERY FACILITY UTILIZATION  
(Chapter 10)**

|                                                    |            | 2015        |               |                      |                     |                |                   |                      |                    |
|----------------------------------------------------|------------|-------------|---------------|----------------------|---------------------|----------------|-------------------|----------------------|--------------------|
| Facility by Region                                 | County     | # of<br>Ors | # of<br>Endos | Total #<br>of Suites | Total<br>Operations | Total<br>Endos | Combined<br>Total | Operations<br>per OR | Endos<br>per Suite |
| Center for Advanced Surgery *                      | Charleston | 2           |               | 2                    |                     |                | 0                 | 0                    |                    |
| Charleston Endoscopy Center                        | Charleston |             | 5             | 5                    |                     | 9,937          | 9,937             |                      | 1,987              |
| Charleston Surgery Center                          | Charleston | 4           | 1             | 5                    | 3,839               | 1,994          | 5,833             | 960                  | 1,994              |
| Colorectal EndoSurgery Institute of the Carolinas  | Charleston |             | 2             | 2                    | 179                 | 340            | 519               |                      | 260                |
| Elms Endoscopy Center                              | Charleston |             | 3             | 3                    |                     | 7,426          | 7,426             |                      | 2,475              |
| Lowcountry Ambulatory Center                       | Charleston | 2           |               | 2                    | 1,703               |                | 1,703             | 852                  |                    |
| MUSC Musculoskeletal Institute 2                   | Charleston | 2           | 2             | 4                    |                     |                |                   |                      |                    |
| Palmetto Endoscopy Center                          | Charleston |             | 2             | 2                    |                     | 4,844          | 4,844             |                      | 2,422              |
| Physicians Eye Surgery Center                      | Charleston | 4           |               | 4                    | 11,084              |                | 11,084            | 2,771                |                    |
| Roper Hosp Ambulatory Surg & Pain Mgt James Island | Charleston | 4           |               | 4                    | 3,044               |                | 3,044             | 761                  |                    |
| Roper St. Francis Eye Center                       | Charleston | 3           |               | 3                    | 1,464               |                | 1,464             | 488                  |                    |
| Southeastern Spine Institute                       | Charleston | 2           |               | 2                    | 14,376              |                | 14,376            | 7,188                |                    |
| Surgery Center of Charleston                       | Charleston | 4           |               | 4                    | 5,516               |                | 5,516             | 1,379                |                    |
| Trident Ambulatory Surgery Center                  | Charleston | 6           |               | 6                    | 4,449               | 657            | 5,106             | 851                  |                    |
| MUSC Pediatric Ambulatory Sugery Center 3          | Charleston | 4           | 1             | 5                    |                     |                |                   |                      |                    |
| Colleton Ambulatory Surgery Center                 | Colleton   | 2           | 1             | 3                    | 753                 |                | 753               | 377                  |                    |
| Lowcountry Outpatient Surgery Center               | Dorchester | 3           |               | 3                    | 7,065               |                | 7,065             | 2,355                |                    |
| Summerville Endoscopy Center *                     | Dorchester |             | 2             | 2                    |                     |                | 0                 |                      | 0                  |
| Totals                                             |            | 171         | 79            | 248                  | 172,529             | 108,395        | 280,924           | 1,009                | 1,372              |

\* Facility did not report 2015 JAR.

1 CON SC-15-49 issued 12/23/15 for the construction of a general ASF with 2 ORs.

2 CON SC-17-31 issued 5/22/17 for the construction of a new ASF with 2 ORs.

3 CON-17-30 issued 5/22/17 for the construction of a new pediatric ASF with 4 ORs and 1 endoscopy suite.

**FREESTANDING EMERGENCY HOSPITAL SERVICES  
(Chapter 10)**

| <b><u>Freestanding ED</u></b>                           | <b><u>Licensed Under</u></b> | <b><u>City</u></b> | <b><u>County</u></b> |
|---------------------------------------------------------|------------------------------|--------------------|----------------------|
| Moncks Corner Medical Center                            | Trident Medical Center       | Moncks Corner      | Dorchester           |
| Roper Hospital Diagnostics and ER - Berkeley            | Roper St. Francis            | Moncks Corner      | Berkeley             |
| Roper Hospital Diagnostics and ER - Northwoods <b>1</b> | Roper St. Francis            | North Charleston   | Charleston           |
| North Strand Medical Center                             | Grand Strand Medical Center  | Myrtle Beach       | Horry                |
| Seacoast Medical Center                                 | McLeod Loris                 | Little River       | Horry                |
| South Strand Ambulatory Care Center                     | Grand Strand Medical Center  | Myrtle Beach       | Horry                |
| McLeod Health Carolina Forest Campus <b>2</b>           | McLeod Seacoast              | Myrtle Beach       | Horry                |
| Carolina Forest Emergency <b>3</b>                      | Grand Strand Medical Center  | Myrtle Beach       | Horry                |
| Coastal Carolina Hospital <b>4</b>                      | Coastal Carolina Hospital    | Hardeeville        | Jasper               |
| Fort Mill Freestanding Emergency Department <b>5</b>    | Piedmont Medical Center      | Fort Mill          | York                 |

**1** Relocation approved November 15, 2016, in appeal

**2** Approved January 23, 2017, in appeal

**3** Approved January 23, 2017, in appeal

**4** Approved January 23, 2017, in appeal

**5** Approved April 11, 2015, in appeal

## CHAPTER 11

### LONG-TERM CARE FACILITIES AND SERVICES

#### NURSING FACILITIES

Nursing facilities provide inpatient care for convalescent or chronic disease residents who require nursing care and related medical services. This care is performed under the general direction of persons licensed to practice medicine or surgery in the State. Facilities furnishing primarily domiciliary care are not included. The licensing list of nursing facilities also denotes the facilities that have Alzheimer's units. For more specific detail about nursing facilities, refer to [Regulation 61-17](#) (*Standards for Licensing Nursing Homes*).

A ratio of 39 beds/1,000 population age 65 and over is used to project the need for 2017. Since the vast majority of patients utilizing nursing facilities are 65 years of age or older, only this segment of the population is used in the need calculations. A two-year projection is used because nursing facilities can be constructed and become operational in two years.

#### CERTIFICATE OF NEED PROJECTIONS AND STANDARDS

1. Bed need is calculated on a county basis using the ratio of 39 beds/1,000 population age 65 and over.
2. When a county shows excess beds, additional beds will not be approved, except to allow an individual nursing facility to add some additional beds in order to make more economical nursing units. These additions are envisioned as small increments in order to increase the efficiency of the nursing home. This exception for additional beds will not be approved if it results in a three bed ward. A nursing facility may add up to 16 additional beds per nursing unit to create either 44 or 60 bed nursing units, regardless of the projected bed need for the county. The nursing facility must document how these additional beds will make a more economical unit(s).
3. Some Institutional Nursing Facilities are dually licensed, with some beds restricted to residents of the retirement community and the remaining beds are available to the general public. The beds restricted to residents of the retirement community are not eligible to be certified for Medicare or Medicaid. Should such a facility have restricted beds that are inadvertently certified, the facility will be allowed to apply for a Certificate of Need to convert these beds to general nursing home beds, regardless of the projected bed need for that county.

The Long-Term Care Inventory and Bed Need Chart are located at the end of this Chapter.

### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria are considered the most important in evaluating Certificate of Need applications for these beds or facilities:

1. Community Need Documentation;
2. Projected Revenues;
3. Projected Expenses;
4. Net Income;
5. Methods of Financing;
6. Staff Resources;
7. Record of the Applicant; and
8. Distribution (accessibility).

Because nursing facilities are located within approximately thirty (30) minutes' travel time for the majority of the residents of the State and at least one nursing facility is located in every county, no justification exists for approving additional nursing facilities or beds that are not indicated as needed in this Plan. The major accessibility problem is caused by the lack of Medicaid funding since the Medicaid Program pays for approximately 65% of all nursing facility residents. This Plan projects the need for nursing facility beds by county. The benefits of improved accessibility do not outweigh the adverse effects caused by the duplication of any existing beds or the placement of Medicaid funds for the beds.

### **MEDICAID NURSING HOME PERMITS**

The Medicaid Nursing Home Permit Act, formerly known as the Nursing Home Licensing Act of 1987, sets forth a regulatory scheme whereby Medicaid nursing home permits and Medicaid patient days are allocated in South Carolina. A long-term care facility (nursing home) must obtain a Medicaid Nursing Home Permit from the Department in order to serve Medicaid patients. A Medicaid patient is a person who is eligible for Medicaid (Title XIX) sponsored long-term care services. Each year, the South Carolina General Assembly establishes the maximum number of Medicaid patient days the Department is authorized to issue. A Medicaid patient day is a day of nursing home care for which the holder of a Medicaid nursing home Permit can receive Medicaid reimbursement. The South Carolina Department of Health and Human Services provides the Department with the total number of Medicaid patient days available so the Department may distribute those patient days amongst Permit holders.

The Medicaid Patient Days and Medicaid Beds Requested & Authorized Chart is located at the end of this Chapter.

## **COMMUNITY LONG-TERM CARE (CLTC) PROGRAM**

South Carolina is seeking to increase access to long-term care facilities through a number of different programs. The Community Long-Term Care Project (CLTC) provides mandatory pre-admission screening and case management to Medicaid-eligible individuals who are in need of applying for nursing facility placement under the Medicaid program. It also provides several community-based services for Medicaid participants who prefer to receive care in the community rather than institutional care. In certain counties, those services include:

Adult Day Healthcare: CLTC offers Adult Day Health Care to individuals enrolled in the Community Choices Waiver. This is medically supervised care and services provided at a licensed day care center. Transportation to and from the home is provided within 15 miles of the center.

Attendant/Personal Assistance: CLTC offers attendant services to individuals enrolled in the Community Choices Waiver. Nurses assist by observing care and helping consumers develop skills in managing their attendant. Services may include assistance with general household activities; help with activities such as bathing, dressing, preparing meals, and housekeeping; and observing health signs.

Care Management (Case Management - Service Coordination): CLTC assigns a nurse to help determine the services for which the participant qualifies and what services will best meet the needs of an individual enrolled in the Community Choices Waiver. Nursing Facility Transition Services may also be offered to help a participant residing in a nursing facility return to the community.

Companion (Sitter): CLTC provides an approved companion to provide supervision of an individual and short-term relief for regular caregivers to individuals enrolled in the Community Choices Waiver.

Home Repair/Modification Assistance: CLTC helps provide pest control services, ramps, heater fans and air conditioners to individuals enrolled in the Community Choices Waiver. It can also help make minor adaptations to non-rental property for the safety and health of the Medicaid participant.

Medical Equipment/Personal Care Supplies: CLTC provides limited durable medical equipment and incontinence supplies (diapers, underpads, wipes, etc.) to individuals enrolled in the Community Choices Waiver.

Nutritional Supplement Assistance: CLTC's Community Choices Program provides 2 cases per month of Nutritional Supplements to its participants.

The Program for All-Inclusive Care for the Elderly (PACE) is a Medicaid State option that

provides comprehensive long-term care to primarily elderly residents of the State. PACE is available to Medicaid participants who are certified as “nursing home” eligible, but prefer care from community services. GHS Senior Care, Palmetto SeniorCare, and The Methodist Oaks currently operate PACE programs in the State.

### **SPECIAL NEEDS FACILITIES**

The South Carolina Department of Disabilities and Special Needs (DDSN) provides 24-hour care to individuals with complex, severe disabilities through five (5) in-state regional facilities located in Columbia, Florence, Clinton, Summerville and Hartsville. These facilities serve those individuals who cannot be adequately cared for by one of DDSN’s community living options and focus on those with special needs, head and spinal cord injuries and pervasive development disorders. In 2014, the Centers for Medicare and Medicaid Services (CMS) issued its final rule on Home and Community Based Services (HCBS) that will, inter alia, ensure that individuals who receive services through Medicaid’s HCBS programs have access to the benefits of community living. DDSN believes the HCBS initiative will affect its Day Programs and where its clients live. The South Carolina Department of Health and Human Services (DHHS) will be the lead agency in implementing HCBS which will be phased in over the next five (5) years.

### **INSTITUTIONAL NURSING FACILITY (RETIREMENT COMMUNITY NURSING FACILITY)**

An institutional nursing facility means a nursing facility (established within the jurisdiction of a larger non-medical institution) that maintains and operates organized facilities and services to accommodate only students, residents or inmates of the institution. These facilities provide necessary services for retirement communities as established by church, fraternal, or other organizations. Such beds must serve only the residents of the housing complex and either be developed after the housing has been established or be developed as a part of a total housing construction program that has documented that the entire complex is one inseparable project.

### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

To be considered under this special bed category, the following criteria must be met:

1. The nursing facility must be a part of and located on the campus of the retirement community.
2. It must restrict admissions to campus residents.
3. The facility may not participate in the Medicaid program.

There is no projection of need for this bed category. The applicant must demonstrate that

the proposed number of beds is justified and that the facility meets the above qualifications. If approved by the Department, such a facility would be licensed as an “Institutional Nursing Home,” and the beds generated by such a project will be placed in the statewide inventory in Chapter III. These beds are not counted against the projected need of the county where the facility is located. For established retirement communities, a generally accepted ratio of nursing facility beds to retirement beds is 1:4.

### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria, as outlined in Chapter 8 of [Regulation 61-15](#), are considered the most important in evaluating Certificate of Need applications for these beds or facilities:

1. Need for the Proposed Project;
2. Economic Consideration; and
3. Health System Resources.

Because Institutional Nursing Facility Beds are used solely by the residents of the retirement community, there is no justification for approving this type of nursing facility unless the need can be documented by the retirement center. The benefits of improved accessibility do not outweigh the adverse effects caused by the duplication of any existing beds or facilities.

### **SWING-BEDS**

*A Certificate of Need is not required to participate in the Swing Bed Program in South Carolina; however, the hospital must obtain Medicare certification.*

[The Social Security Act \(Section 1883\(a\)\(1\), \[42 U.S.C. 1395tt\]\)](#) permits certain small, rural hospitals to enter into a swing bed agreement, under which the hospital can use its beds to provide either acute or SNF care, as needed. The hospital must be located in a rural area and have fewer than 100 beds.

Medicare Part A covers the services furnished in a swing bed hospital under the SNF PPS. The PPS classifies residents into one of 44 categories for payment purposes. To qualify for SNF-level services, a beneficiary is required to receive acute care as a hospital inpatient for a stay of at least three consecutive days, although it does not have to be from the same hospital as the swing bed. Typical medical criteria include daily physical, occupational and/or speech therapy, IV or nutritional therapy, complex wound treatment, pain management, and end-of-life care.

The Swing-Bed Participants Chart is located at the end of this Chapter.

## **HOSPICE FACILITIES AND HOSPICE PROGRAMS**

Hospice is a centrally administered, interdisciplinary health care program, which provides a continuum of medically supervised palliative and supportive care for the terminally ill patient and the family or responsible party, including, but not limited to home, outpatient and inpatient services provided directly or through written agreement. Inpatient services include, but are not limited to, services provided by a hospice in a licensed hospice facility.

A Hospice Facility means an institution, place or building licensed by the Department to provide room, board and appropriate hospice care on a 24-hour basis to individuals requiring such services pursuant to the orders of a physician.

The Inpatient Hospice Facilities Chart is located at the end of this Chapter.

A Hospice Program means an entity licensed by the Department that provides appropriate hospice care to individuals as described in the first paragraph above, exclusive of the services provided by a hospice facility.

## **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. *A Certificate of Need is only required for an Inpatient Hospice Facility; it is not required for the establishment of a Hospice Program.*
2. An Inpatient Hospice Facility must be owned or operated either directly or through contractual agreement with a licensed hospice program.
3. The applicant must document the need for the facility and justify the number of inpatient beds that are being requested.
4. The proposed facility must consider the impact on other existing inpatient hospice facilities.

## **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following Project Review Criteria are considered to be the most important in evaluating Certificate of Need applications for this service:

1. Community Need Documentation;
2. Distribution (Accessibility);
3. Acceptability;
4. Record of the Applicant; and
5. Staff Resources.

Hospice services should be available within sixty (60) minutes' travel time for the majority of residents of the State. The benefits of improved accessibility will be weighed equally with the adverse effects of duplication in evaluating Certificate of Need applications for this facility type.

## **HOME HEALTH**

### **[Home Health Agencies](#)**

Home Health Agency means a public, nonprofit, or proprietary organization, whether owned or operated by one or more persons or legal entities, which furnishes or offers to furnish home health services. Home health services means those items and services furnished to an individual by a home health agency, or by others under arrangement with the home health agency, on a visiting basis and except for (f) below, in a place of temporary or permanent residence used as the individual's home as follows:

Part-time or intermittent skilled nursing care as ordered by a physician or podiatrist and provided by or under the supervision of a registered nurse and at least one other therapeutic service listed below: (a) physical, occupational, or speech therapy; (b) medical social services; (c) home health aide services; (d) other therapeutic services; (e) medical supplies as indicated in the treatment plan and the use of medical appliances, to include durable medical equipment and (f) any of the above items and services provided on an outpatient basis under arrangements made by the home health agency with a hospital, nursing home or rehabilitation center and the furnishing of which involves the use of equipment of such a nature that the items/services cannot readily be made available to the individual in his/her home, or which are furnished at one of the above facilities while the patient is there to receive such items or services. Transportation of the individual in connection with any such items or services is not included.

## **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. An applicant must propose home health services to cover the geographic area of an entire county and agree to serve residents throughout the entire county.
2. A separate application is required for each county in which services are to be provided.
3. A new home health agency may be approved if an applicant can demonstrate it will serve 50 or more patients projected to be in need in non-rural counties, or 25 or more patients projected to be in need in rural counties, through evidence that may include, but would not be limited to, the following:
  - a. Letters of support that identify need for additional home health services from

physicians and other referral sources.

- b. Evidence of underutilization of home health services.
  - c. Evidence of limited scope home health agency service including skilled nursing, physical therapy, occupational therapy, speech therapy, home health aides, and medical social workers.
  - d. Evidence of the denial or delay in the provision of home health services, including but not limited to long waiting lists or delays which exceed industry standards.
  - e. Evidence that one or more existing home health agencies has failed to meet the minimum patient service requirements set forth in paragraph 8 of this section of the Plan within two years of the initiation of patient services after receiving a home health license.
- 4. For the purposes of this Section, a rural county shall mean a county with a population of less than 50,000, according to the most recent projections of the South Carolina Revenue and Fiscal Affairs office as of the time the current Plan was adopted.
  - 5. All home health agency services (Skilled Nursing, Physical Therapy, Occupational Therapy, Speech Therapy, Home Health Aide, and Medical Social Worker) should be available within a county. If there is no hospital in a county and the existing licensed home health agencies between them do not provide all of the services identified above, this may be cited as potential justification for the approval of an additional agency that intends to offer these services.
  - 6. Specialty home health providers are exempt from the need calculation applicable to full-service home health agencies, but are otherwise subject to Certificate of Need.
  - 7. The applicant should have a track record that demonstrates a commitment to quality services. There should be no history of prosecution, consent order, abandonment of patients in other business operations, or loss of license. However, any consent orders or loss of licenses related to licenses that were obtained from the Department between July 1, 2013 and May 22, 2014 without a Certificate of Need shall not be grounds for denial of a Certificate of Need application pursuant to this Section. The applicant must provide a list of all licensed home health agencies it operates and the state(s) where it operates them.
  - 8. The applicant must document that it can serve at least 25 patients annually in each rural county for which it is licensed and 50 patients annually in each non-rural county for which it is licensed within two years of initiation of services. The applicant must

assure the Department that, should it fail to reach this threshold number two years after initiation of services in a county, it will voluntarily relinquish its license for that county.

9. Nothing in this Section is intended to restrict the ability of the Department to approve more than one new Home Health Agency in a county at any given time.

The Home Health Agency Inventory Chart is located at the end of this Chapter.

#### **RELATIVE IMPORTANCE OF PROJECT REVIEW CRITERIA**

The following project review criteria, as outlined in Chapter 8 of [Regulation 61-15](#), are considered to be the most important in reviewing Certificate of Need applications for this service:

1. Compliance with the Need Outlined in this Section of the Plan;
2. Distribution (Accessibility);
3. Acceptability;
4. Record of the Applicant; and
5. Medically Underserved Groups.

The benefits of improved accessibility outweigh the adverse effects caused by the duplication of any existing service.

#### **Pediatric Home Health Agencies**

Due to the limited number of home health providers available to treat children 18 years or younger, an exception to the above criteria may be made for a Certificate of Need for a Home Health Agency restricted to providing intermittent home health skilled nursing services to patients 18 years or younger. The license for the agency will be restricted to serving children 18 years or younger and will ensure access to necessary and appropriate intermittent home health skilled nursing services to these patients. Any such approved agency will not be counted in the county inventories for need projection purposes.

#### **CERTIFICATE OF NEED PROJECTIONS AND STANDARDS**

1. A separate Certificate of Need application will be required for each county for an agency that proposes to provide this specialized service to pediatric patients in multiple counties.
2. The applicant must document that there is an unmet need for this service in the county of application, and the agency will limit such services to the pediatric population 18 years or younger.

3. The applicant must document the full range of services that they intend to provide to pediatric patients.

#### Continuing Care Retirement Community Home Health Agencies

A licensed continuing care retirement community that also incorporates a skilled nursing facility may provide home health services and *does not require Certificate of Need review provided:*

- a. The continuing care retirement furnishes or offers to furnish home health services only to residents who reside in living units provided by the continuing care retirement community pursuant to a continuing care contract;
- b. The continuing care retirement community maintains a current license and meets the applicable home health agency licensing standards; and
- c. Residents of the continuing care retirement community may choose to obtain home health services from other licensed home health agencies.

Staff from other areas of the continuing care retirement community may deliver the home health services, but at no time may staffing levels in any area of the continuing care retirement community fall below minimum licensing standards or impair the services provided. If the continuing care retirement community includes charges for home health services in its base contract, it is prohibited from billing additional fees for those services. Continuing care retirement communities certified for Medicare or Medicaid, or both, must comply with government reimbursement requirements concerning charges for home health services. The continuing care retirement community shall not bill in excess of its costs. These costs will be determined on non-facility-based Medicare and/or Medicaid standards.

**LONG-TERM CARE INVENTORY**  
**(Chapter 11)**

| Region I                                      | # Beds |
|-----------------------------------------------|--------|
| =====                                         |        |
| <b>Abbeville</b>                              |        |
| Abbeville Nursing Home                        | 94     |
| <b>Anderson</b>                               |        |
| Brookdale Anderson                            | 44     |
| Ellenburg Nursing Center                      | 181    |
| Iva Rehabilitation & Healthcare Center        | 60     |
| Linley Park Rehab & Healthcare                | 88     |
| NHC HealthCare of Anderson                    | 290    |
| Richard M. Campbell Veterans Nursing Home     | 220    |
| Southern Oaks Rehab & Healthcare              | 88     |
| <b>Cherokee</b>                               |        |
| Blue Ridge in Brookview House                 | 132    |
| Peachtree Centre                              | 111    |
| <b>Greenville</b>                             |        |
| Arboretum at the Woodlands                    | 30     |
| Brookdale Greenville                          | 45     |
| Brushy Creek Rehab & Healthcare               | 144    |
| Fountain Inn Nursing Home                     | 60     |
| GHS Memorial Hospital Subacute Unit           | 15     |
| Greenville Rehab & Healthcare                 | 132    |
| Greer Rehab & Healthcare                      | 133    |
| Heartland Health Care Center - East           | 132    |
| Heartland Health Care Center - West           | 125    |
| Linville Courts at the Cascades Verdae        | 44     |
| Magnolia Manor - Greenville                   | 99     |
| Magnolia Place at Greenville                  | 120    |
| NHC HealthCare Greenville                     | 176    |
| NHC HealthCare Mauldin                        | 180    |
| Patewood Rehab & Healthcare                   | 120    |
| Poinsett Rehab & Healthcare                   | 132    |
| River Falls Rehab & Healthcare                | 44     |
| Rolling Green Village Health Care             | 74     |
| Simpsonville Rehab & Healthcare               | 132    |
| <b>Greenwood</b>                              |        |
| Greenwood Transitional Rehab Unit             | 12     |
| Health Care Center of Wesley Commons <b>1</b> | 80     |
| Magnolia Manor - Greenwood                    | 88     |
| NHC HealthCare Greenwood                      | 152    |

**LONG-TERM CARE INVENTORY**  
**(Chapter 11)**

**Laurens**

|                                      |     |
|--------------------------------------|-----|
| GHS Laurens County Memorial Subacute | 3   |
| Martha Franks Baptist Retirement     | 88  |
| NHC HealthCare Clinton               | 131 |
| NHC HealthCare Laurens               | 176 |
| Presbyterian Communities - Clinton   | 66  |

**McCormick**

|                              |     |
|------------------------------|-----|
| McCormick Rehab & Healthcare | 120 |
|------------------------------|-----|

**Oconee**

|                       |     |
|-----------------------|-----|
| GHS Lila Doyle        | 120 |
| Seneca Health & Rehab | 132 |

**Pickens**

|                                      |     |
|--------------------------------------|-----|
| Brookdale Easley                     | 60  |
| Capstone Rehab & Healthcare          | 60  |
| CARC Health Care Center <b>2</b>     | 68  |
| Fleetwood Rehab & Healthcare         | 103 |
| Manna Rehab & Healthcare             | 130 |
| Presbyterian Communities - Foothills | 44  |
| PruittHealth Pickens                 | 44  |

**Spartanburg**

|                                           |     |
|-------------------------------------------|-----|
| Golden Age - Inman                        | 44  |
| Inman Healthcare                          | 40  |
| Lake Emory Post Acute Care                | 88  |
| Magnolia Manor - Inman                    | 176 |
| Magnolia Manor - Spartanburg              | 95  |
| Mountainview Nursing Home                 | 132 |
| Physical Rehab & Wellness                 | 120 |
| Rosecrest Rehab & Healthcare              | 75  |
| Skyland Nursing and Rehabilitation Center | 44  |
| Spartanburg Hospital for Restorative Care | 25  |
| Summit Hills Skill Nursing                | 33  |
| Valley Falls Terrace                      | 88  |
| White Oak Estates                         | 88  |
| White Oak Manor Spartanburg               | 192 |
| Woodruff Manor                            | 88  |

**Union**

|                                     |     |
|-------------------------------------|-----|
| Ellen Sagar Nursing Center          | 113 |
| Heartland Health Care Center- Union | 88  |

**LONG-TERM CARE INVENTORY**  
**(Chapter 11)**

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**Region II**

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**Aiken**

|                                    |     |
|------------------------------------|-----|
| Anchor Rehab & Healthcare <b>3</b> | 120 |
| Azaleawoods Rehab & Nursing Center | 86  |
| NHC HealthCare N. Augusta          | 192 |
| Pepper Hill Nursing & Rehab        | 132 |
| PruittHealth Aiken                 | 176 |
| PruittHealth North Augusta         | 132 |

**Barnwell**

|                                      |    |
|--------------------------------------|----|
| Laurel Baye Healthcare of Blackville | 85 |
| Laurel Baye Healthcare of Williston  | 44 |
| PruittHealth Barnwell                | 44 |

**Chester**

|                        |     |
|------------------------|-----|
| Chester Nursing Center | 100 |
|------------------------|-----|

**Edgefield**

|                          |     |
|--------------------------|-----|
| Ridge Rehab & Healthcare | 120 |
|--------------------------|-----|

**Fairfield**

|                          |     |
|--------------------------|-----|
| Blue Ridge in the Fields | 112 |
| PruittHealth Ridgeway    | 150 |

**Kershaw**

|                                     |     |
|-------------------------------------|-----|
| KershawHealth Karesh Long Term Care | 96  |
| Springdale Healthcare               | 148 |

**Lancaster**

|                                            |     |
|--------------------------------------------|-----|
| Lancaster Convalescent Center              | 142 |
| Transitional Care Unit at Springs Memorial | 14  |
| White Oak Manor Lancaster                  | 132 |

**Lexington**

|                                            |     |
|--------------------------------------------|-----|
| Brian Center of Nursing Care - St. Andrews | 108 |
| Heritage at Lowman Rehab & Healthcare      | 176 |
| Laurel Crest Retirement Center             | 12  |
| Lexington Medical Center Extended Care     | 388 |
| Millennium Post Acute Rehab                | 132 |
| NHC HealthCare Lexington                   | 170 |
| Opus Post Acute Rehab                      | 100 |
| Presbyterian Communities - Columbia        | 44  |
| SC Episcopal Home at Still Hope <b>4</b>   | 70  |
| Wellmore of Lexington <b>5</b>             | 60  |

**Newberry**

|                          |     |
|--------------------------|-----|
| JF Hawkins Nursing Home  | 118 |
| White Oak Manor Newberry | 146 |

**LONG-TERM CARE INVENTORY  
(Chapter 11)**

**Richland**

|                                                       |     |
|-------------------------------------------------------|-----|
| CM Tucker Jr. Nursing Center Fewell & Stone Pavilions | 252 |
| CM Tucker Jr. Nursing Center Roddey Pavilion          | 308 |
| Countrywood Nursing Center                            | 38  |
| Heartland of Columbia Rehab & Nursing                 | 132 |
| Life Care Center of Columbia                          | 179 |
| Midlands Health & Rehab                               | 88  |
| NHC HealthCare Parklane                               | 180 |
| Palmetto Health Rehab Center                          | 22  |
| PruittHealth Blythewood                               | 120 |
| PruittHealth Columbia                                 | 185 |
| Rice Estate Rehab & Healthcare                        | 80  |
| White Oak Manor Columbia                              | 120 |
| Wildewood Downs Nursing & Rehab                       | 80  |

**Saluda**

|                       |     |
|-----------------------|-----|
| Saluda Nursing Center | 176 |
|-----------------------|-----|

**York**

|                                           |     |
|-------------------------------------------|-----|
| Lodge at Wellmore                         | 60  |
| Magnolia Manor Rock Hill                  | 106 |
| PruittHealth Rock Hill                    | 132 |
| Rock Hill Post Acute Care Center          | 99  |
| Westminster Health & Rehab                | 66  |
| White Oak Manor York                      | 109 |
| White Oak of Rock Hill                    | 141 |
| Willow Brook Court at Park Pointe Village | 40  |

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**Region III**

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**Chesterfield**

|                                  |     |
|----------------------------------|-----|
| Cheraw Healthcare                | 120 |
| Chesterfield Convalescent Center | 104 |

**Clarendon**

|                              |    |
|------------------------------|----|
| Lake Marion Nursing Facility | 88 |
| Windsor Manor Nursing Home   | 64 |

**Darlington**

|                                   |     |
|-----------------------------------|-----|
| Bethea Baptist Health Care Center | 88  |
| Medford Nursing Center            | 88  |
| Morrell Nursing Center            | 154 |
| Oakhaven Nursing Center           | 88  |

**LONG-TERM CARE INVENTORY**  
**(Chapter 11)**

**Dillon**

|                          |     |
|--------------------------|-----|
| PruittHealth Dillon      | 84  |
| Sunny Acres Nursing Home | 111 |

**Florence**

|                                      |     |
|--------------------------------------|-----|
| Commander Nursing Home               | 163 |
| Dr. Ronald E McNair Nursing & Rehab  | 88  |
| Faith Healthcare Center              | 104 |
| Florence Rehab & Nursing Center      | 88  |
| Heritage Home of Florence            | 132 |
| Honorage Nursing Center              | 88  |
| Lake City-Scranton Healthcare Center | 88  |
| Methodist Manor Healthcare Center    | 32  |
| Presbyterian Communities - Florence  | 44  |
| Southland Health Care Center         | 88  |

**Georgetown**

|                                            |     |
|--------------------------------------------|-----|
| Blue Ridge in Georgetown                   | 84  |
| Lakes at Litchfield Skilled Nursing Center | 24  |
| Prince George Healthcare Center            | 148 |

**Horry**

|                                     |     |
|-------------------------------------|-----|
| Brightwater Skilled Nursing Center  | 67  |
| Compass Post Acute Rehab            | 95  |
| Conway Manor                        | 190 |
| Covenant Towers Health Care         | 30  |
| Grand Strand Rehab & Nursing Center | 88  |
| Kingston Nursing Center             | 88  |
| Loris Rehab & Nursing               | 88  |
| Myrtle Beach Manor                  | 60  |
| NHC HealthCare Garden Center        | 148 |

**Lee**

|                               |     |
|-------------------------------|-----|
| McCoy Memorial Nursing Center | 120 |
|-------------------------------|-----|

**Marion**

|                        |    |
|------------------------|----|
| Mullins Nursing Center | 92 |
|------------------------|----|

**Marlboro**

|              |     |
|--------------|-----|
| Dundee Manor | 110 |
|--------------|-----|

**Sumter**

|                                 |     |
|---------------------------------|-----|
| Blue Ridge of Sumter            | 96  |
| Covenant Place Nursing Center   | 44  |
| NHC HealthCare Sumter           | 138 |
| Palmetto Health Tuomey Subacute | 18  |
| Sumter East Health & Rehab      | 176 |

**Williamsburg**

|                            |    |
|----------------------------|----|
| Kingstree Nursing Facility | 96 |
|----------------------------|----|

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**Region IV**

**LONG-TERM CARE INVENTORY**  
**(Chapter 11)**

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**Allendale**

John Edward Harter Nursing Center 44

**Bamberg**

Pruitthealth Bamberg 88

**Beaufort**

Bayview Manor 170

Broad Creek Care Center 25

Fraser Health Care 33

Life Care Center of Hilton Head 88

NHC HealthCare Bluffton 120

Preston Health Center 77

Sprenger Healthcare of Port Royal **6** 65

Sprenger Healthcare of Bluffton **7** 65

**Berkeley**

Heartland Health & Rehab - Hanahan 135

Lake Moultrie Nursing Home 88

Pruitthealth Moncks Corner 132

Wellmore of Daniel Island **8** 60

**Calhoun**

Calhoun Convalescent Center 120

**Charleston**

Bishop Gadsden Episcopal Health Care 50

Franke Health Care Center 44

Heartland of West Ashley Rehab & Nursing 125

John's Island Rehab & Healthcare 132

Life Care Center of Charleston 148

Mount Pleasant Manor 132

NHC HealthCare Charleston 132

Riverside Health & Rehab 160

Sandpiper Rehab & Nursing 176

Savannah Grace at the Palms of Mt. Pleasant **9** 48

South Bay at Mount Pleasant **10** 40

Vibra Hospital of Charleston - TCU 35

White Oak Manor Charleston 176

**Colleton**

Pruitthealth Walterboro 132

Veterans Victory House 220

**LONG-TERM CARE INVENTORY  
(Chapter 11)**

**Dorchester**

|                                        |    |
|----------------------------------------|----|
| Hallmark Healthcare Center             | 88 |
| Oakbrook Health & Rehab                | 88 |
| Presbyterian Communities - Summerville | 87 |
| St. George Healthcare Center           | 88 |

**Hampton**

|                     |     |
|---------------------|-----|
| Pruitthealth Estill | 104 |
|---------------------|-----|

**Jasper**

|                          |    |
|--------------------------|----|
| Ridgeland Nursing Center | 88 |
|--------------------------|----|

**Orangeburg**

|                              |     |
|------------------------------|-----|
| Jolley Acres Healthcare      | 60  |
| Methodist Oaks               | 122 |
| Pruitthealth Orangeburg      | 88  |
| Riverside Rehab & Healthcare | 113 |

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**Statewide Total**

**20,603**

- 1** CON SC-15-31 issued August 20, 2015 for construction of a replacement facility and reduction from 102 to 80 nursing home beds.
- 2** CON SC-15-17 issued April 29, 2015 for construction for the addition of 16 nursing home beds for a total of 68 nursing home beds.
- 3** CON SC-15-02 issued January 16, 2015 for construction for the addition of 60 nursing home beds for a total of 120 nursing home beds.
- 4** CON SC-17-05 issued January 13 2017 for construction for the addition of 8 nursing home beds for a total of 70 nursing home beds.
- 5** CON SC-15-28 issued August 18, 2015 for the construction for a new 60 bed nursing home.
- 6** CON SC-16-06 issued February 22, 2016 for construction for a new 65 bed nursing home.
- 7** CON SC-17-19 issued April 13, 2017 for construction for a new 65 bed nursing home.
- 8** CON SC-15-43 issued November 20, 2015 for construction for a new 60 bed nursing home.
- 9** CON SC-16-15 issued April 8, 2016 for renovation for the addition of six nursing home beds for a total of 48 nursing home beds.
- 10** CON SC-16-154 issued December 9, 2016 for construction for a new 40 bed nursing home.

**LONG-TERM CARE BED NEED  
(Chapter 11)**

| <b>Regions</b>          | <b>2019 Pop<br/>65+ (000)</b> | <b>Bed Need<br/>(Pop x 39)</b> | <b>Existing<br/>Beds</b> | <b>Total #<br/>Beds to<br/>be Added</b> |
|-------------------------|-------------------------------|--------------------------------|--------------------------|-----------------------------------------|
| <b>Region I</b>         |                               |                                |                          |                                         |
| Abbeville               | 5.52                          | 215                            | 94                       | 121                                     |
| Anderson                | 37.75                         | 1,472                          | 971                      | 501                                     |
| Cherokee                | 9.66                          | 377                            | 243                      | 134                                     |
| Greenville              | 84.61                         | 3,300                          | 1,937                    | 1,363                                   |
| Greenwood               | 13.23                         | 516                            | 332                      | 184                                     |
| Laurens                 | 12.57                         | 490                            | 464                      | 26                                      |
| McCormick               | 3.28                          | 128                            | 120                      | 8                                       |
| Oconee                  | 18.47                         | 720                            | 252                      | 468                                     |
| Pickens                 | 21.11                         | 823                            | 509                      | 314                                     |
| Spartanburg             | 51.74                         | 2,018                          | 1,328                    | 690                                     |
| Union                   | 5.70                          | 222                            | 201                      | 21                                      |
| =====                   | =                             | =                              |                          | =                                       |
| <b>Region I Total</b>   | <b>263.64</b>                 | <b>10,282</b>                  | <b>6,451</b>             | <b>3,831</b>                            |
| =====                   | =                             | =                              |                          | =                                       |
| <b>Region II</b>        |                               |                                |                          |                                         |
| Aiken                   | 34.56                         | 1,348                          | 838                      | 510                                     |
| Barnwell                | 3.9                           | 152                            | 173                      | (21)                                    |
| Chester                 | 6.12                          | 239                            | 100                      | 139                                     |
| Edgefield               | 5                             | 195                            | 120                      | 75                                      |
| Fairfield               | 4.73                          | 184                            | 262                      | (78)                                    |
| Kershaw                 | 12.23                         | 477                            | 244                      | 233                                     |
| Lancaster               | 21.24                         | 828                            | 288                      | 540                                     |
| Lexington               | 49.1                          | 1,915                          | 1,260                    | 655                                     |
| Newberry                | 7.88                          | 307                            | 264                      | 43                                      |
| Richland                | 56.37                         | 2,198                          | 1,784                    | 414                                     |
| Saluda                  | 4.28                          | 167                            | 176                      | (9)                                     |
| York                    | 41.01                         | 1,599                          | 753                      | 846                                     |
| =====                   | =                             | =                              |                          | =                                       |
| <b>Region II Total</b>  | <b>246.42</b>                 | <b>9,610</b>                   | <b>6,262</b>             | <b>3,348</b>                            |
| =====                   | =                             | =                              |                          | =                                       |
| <b>Region III</b>       |                               |                                |                          |                                         |
| Chesterfield            | 8.33                          | 325                            | 224                      | 101                                     |
| Clarendon               | 7.71                          | 301                            | 152                      | 149                                     |
| Darlington              | 12.85                         | 501                            | 418                      | 83                                      |
| Dillon                  | 5.34                          | 208                            | 195                      | 13                                      |
| Florence                | 24.16                         | 942                            | 915                      | 27                                      |
| Georgetown              | 17.78                         | 693                            | 256                      | 437                                     |
| Horry                   | 87.36                         | 3,407                          | 854                      | 2,553                                   |
| Lee                     | 3.49                          | 136                            | 120                      | 16                                      |
| Marion                  | 6.11                          | 238                            | 92                       | 146                                     |
| Marlboro                | 4.66                          | 182                            | 110                      | 72                                      |
| Sumter                  | 17.96                         | 700                            | 472                      | 228                                     |
| Williamsburg            | 6.78                          | 264                            | 96                       | 168                                     |
| =====                   | =                             | =                              |                          | =                                       |
| <b>Region III Total</b> | <b>202.53</b>                 | <b>7,899</b>                   | <b>3,904</b>             | <b>3,995</b>                            |
| =====                   | =                             | =                              |                          | =                                       |
| <b>Region IV</b>        |                               |                                |                          |                                         |
| Allendale               | 1.82                          | 71                             | 44                       | 27                                      |
| Bamberg                 | 2.99                          | 117                            | 88                       | 29                                      |
| Beaufort                | 54.24                         | 2,115                          | 643                      | 1,472                                   |
| Berkeley                | 33.41                         | 1,303                          | 415                      | 888                                     |
| Calhoun                 | 3.51                          | 137                            | 120                      | 17                                      |
| Charleston              | 70.66                         | 2,756                          | 1,398                    | 1,358                                   |
| Colleton                | 8.11                          | 316                            | 352                      | (36)                                    |
| Dorchester              | 22.51                         | 878                            | 351                      | 527                                     |
| Hampton                 | 3.69                          | 144                            | 104                      | 40                                      |
| Jasper                  | 7.31                          | 285                            | 88                       | 197                                     |
| Orangeburg              | 17.33                         | 676                            | 383                      | 293                                     |
| =====                   | =                             | =                              |                          | =                                       |
| <b>Region IV Total</b>  | <b>225.58</b>                 | <b>8,798</b>                   | <b>3,986</b>             | <b>4,812</b>                            |
| =====                   | =                             | =                              |                          | =                                       |
| <b>Statewide Totals</b> | <b>938.17</b>                 | <b>36,589</b>                  | <b>20,603</b>            | <b>15,986</b>                           |

Medicaid Patient Days and Medicaid Beds Requested and Authorized:

| Year      | # Days<br>Requested | Beds   | # Days<br>Authorized | Beds   | # Days<br>Difference |
|-----------|---------------------|--------|----------------------|--------|----------------------|
| 1988-1989 | 3,032,839           | 8,309  | 2,971,811            | 8,142  | 61,028               |
| 1989-1990 | 3,644,248           | 9,984  | 3,644,248            | 9,984  | 0                    |
| 1990-1991 | 3,709,814           | 10,163 | 3,659,965            | 10,028 | 49,849               |
| 1991-1992 | 3,856,833           | 10,567 | 3,659,965            | 10,028 | 196,868              |
| 1992-1993 | 3,976,576           | 10,895 | 3,806,382            | 10,429 | 170,194              |
| 1993-1994 | 4,012,359           | 10,993 | 3,856,382            | 10,566 | 155,977              |
| 1994-1995 | 4,023,690           | 11,024 | 3,892,882            | 10,665 | 130,808              |
| 1995-1996 | 3,969,681           | 10,876 | 3,892,882            | 10,665 | 76,799               |
| 1996-1997 | 4,072,519           | 11,158 | 4,002,382            | 10,965 | 70,137               |
| 1997-1998 | 4,119,753           | 11,287 | 4,097,282            | 11,225 | 22,471               |
| 1998-1999 | 4,265,182           | 11,685 | 4,265,182            | 11,685 | 0                    |
| 1999-2000 | 4,367,134           | 11,965 | 4,341,832            | 11,895 | 25,302               |
| 2000-2001 | 4,420,522           | 12,111 | 4,378,332            | 11,995 | 42,190               |
| 2001-2002 | 4,473,170           | 12,255 | 4,275,998            | 11,715 | 197,172              |
| 2002-2003 | 4,340,158           | 11,891 | 4,205,553            | 11,522 | 134,605              |
| 2003-2004 | 4,304,160           | 11,792 | 4,205,553            | 11,522 | 98,607               |
| 2004-2005 | 4,294,977           | 11,767 | 4,205,553            | 11,522 | 89,424               |
| 2005-2006 | 4,291,812           | 11,758 | 4,205,553            | 11,522 | 86,259               |
| 2006-2007 | 4,283,209           | 11,735 | 4,205,553            | 11,522 | 77,656               |
| 2007-2008 | 4,263,785           | 11,682 | 4,205,553            | 11,522 | 58,232               |
| 2008-2009 | 4,231,047           | 11,592 | 4,205,553            | 11,522 | 25,494               |
| 2009-2010 | 4,215,522           | 11,549 | 4,205,553            | 11,522 | 9,969                |
| 2010-2011 | 4,217,584           | 11,555 | 4,205,553            | 11,522 | 12,031               |
| 2011-2012 | 4,250,190           | 11,644 | 3,771,878            | 10,333 | 478,312              |
| 2012-2013 | 4,268,032           | 11,693 | 3,815,921            | 10,455 | 452,111              |
| 2013-2014 | 4,132,731           | 11,323 | 3,815,921            | 10,455 | 316,810              |
| 2014-2015 | 4,094,917           | 11,219 | 3,815,921            | 10,455 | 278,996              |
| 2015-2016 | 4,112,740           | 11,268 | 3,815,921            | 10,455 | 296,819              |
| 2016-2017 | 4,006,470           | 10,977 | 3,815,921            | 10,455 | 190,549              |

**SWING-BED PARTICIPANTS  
(Chapter 11)**

| <b>FACILITY</b>                    | <b>TOTAL<br/>BEDS</b> | <b>SWING<br/>BEDS</b> | <b>2015<br/>ADMISSIONS</b> | <b>2015<br/>PT DAYS</b> | <b>ADC</b> |
|------------------------------------|-----------------------|-----------------------|----------------------------|-------------------------|------------|
| Abbeville Area Medical Center      | 25                    | 25                    | 65                         | 719                     | 1.97       |
| Allendale County Hospital          | 25                    | 25                    | 76                         | 2,051                   | 5.62       |
| McLeod Health Cheraw <b>1</b>      | 59                    | 49                    | NR                         | NR                      | 0.00       |
| Edgefield County Hospital          | 25                    | 25                    | 130                        | 209                     | 0.57       |
| Fairfield Memorial Hospital        | 25                    | 25                    | 66                         | 495                     | 1.36       |
| Hampton Regional Medical Center    | 32                    | 10                    | 9                          | 88                      | 0.24       |
| Carolinas Hospital System- Marion  | 124                   | 10                    | 13                         | 98                      | 0.27       |
| McLeod Medical Center - Darlington | 72                    | 24                    | 116                        | 7,293                   | 19.98      |
| Newberry County Memorial Hospital  | 90                    | 20                    | 69                         | 585                     | 1.60       |
| Union Medical Center               | 143                   | 12                    | 0                          | 0                       | 0.00       |
| Williamsburg Regional Hospital     | 25                    | 10                    | 64                         | 900                     | 2.47       |

**1** Facility did not report required JAR data.

**INPATIENT HOSPICE FACILITIES  
(Chapter 11)**

| Facility by Region                           | County      | 2015       |            |              |                  |
|----------------------------------------------|-------------|------------|------------|--------------|------------------|
|                                              |             | Total Beds | Admissions | Patient Days | % Occupancy Rate |
| Region I                                     |             |            |            |              |                  |
| Callie & John Rainey Hospice House           | Anderson    | 32         | 633        | 6570         | 56.3%            |
| McCall Hospice House of Greenville           | Greenville  | 30         | 777        | 6,035        | 55.1%            |
| Hospice House of Hospicecare of the Piedmont | Greenwood   | 15         | 478        | 2270         | 41.5%            |
| Hospice of Laurens County                    | Laurens     | 12         | 102        | 933          | 21.3%            |
| GHS Cottingham Hospice House                 | Oconee      | 15         | 284        | 2,922        | 53.4%            |
| Hospice House of the Carolina Foothills      | Spartanburg | 12         | 200        | 1,787        | 40.8%            |
| Spartanburg Regional Hospice Home            | Spartanburg | 15         | 572        | 5,050        | 92.2%            |
| Total                                        |             | 131        | 3,046      | 25,567       | 53.5%            |
| Region II                                    |             |            |            |              |                  |
| Agape House of Lexington 1                   | Lexington   | 30         | --         | --           | --               |
| Agape Hospice House of the Midlands          | Richland    | 12         | 195        | 2,031        | 46.4%            |
| Hospice & Community Care House               | York        | 16         | 242        | 2,734        | 46.8%            |
| Total                                        |             | 28         | 437        | 4,765        | 46.6%            |
| Region III                                   |             |            |            |              |                  |
| McLeod Hospice House                         | Florence    | 24         | 735        | 4,741        | 54.1%            |
| Tidelands Community Hospice House            | Georgetown  | 12         | 318        | 2,311        | 52.8%            |
| Embrace Hospice House of the Grand Strand 2  | Horry       | 36         | --         | --           | --               |
| Total                                        |             | 72         | 1,053      | 7,052        | 26.8%            |
| Region IV                                    |             |            |            |              |                  |
| Agape House of Summerville 3                 | Berkeley    | 30         | --         | --           | --               |
| Hospice Center of Hospice of Charleston      | Charleston  | 20         | 780        | 3,440        | 47.1%            |
| Total                                        |             | 20         | 780        | 3,440        | 47.1%            |
| Statewide Total                              |             | 251        | 5,316      | 40,824       | 44.6%            |

<sup>1</sup> CON SC-15-13, issued March 30, 2015 for the construction of a 30-bed inpatient hospice.

<sup>2</sup> CON SC-15-20, issued April 30, 2015 for the construction of a 36-bed inpatient hospice.

<sup>3</sup> CON SC-16-07, issued February 16, 2016 for the construction of a 30-bed inpatient hospice.

**HOME HEALTH AGENCY INVENTORY  
(Chapter 11)**

| <b><u>Home Health Agency</u></b>                                                        | <b><u>Counties Served</u></b>                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advanced Home Care                                                                      | Lancaster*, York*                                                                                                                                                                                                                                                                                                                                |
| Alere Womens & Childrens Health LLC - Midlands<br>(May Serve Obstetrical Patients Only) | Aiken, Beaufort, Berkeley, Charleston, Colleton,<br>Dorchester, Fairfield, Georgetown, Kershaw, Lancaster,<br>Lexington, Newberry, Richland                                                                                                                                                                                                      |
| Alere Womens & Childrens Health LLC - Piedmont<br>(May Serve Obstetrical Patients Only) | Abbeville, Allendale, Anderson, Bamberg, Barnwell,<br>Calhoun, Cherokee, Chester, Chesterfield, Clarendon,<br>Darlington, Dillon, Edgefield, Florence, Greenville,<br>Greenwood, Hampton, Horry, Jasper, Laurens, Lee,<br>Marion, Marlboro, McCormick, Oconee, Orangeburg,<br>Pickens, Saluda, Spartanburg, Sumter, Union,<br>Williamsburg, York |
| Amedysis Home Health Care                                                               | Clarendon*, Florence*, Georgetown, Williamsburg                                                                                                                                                                                                                                                                                                  |
| Amedisys Home Health of Beaufort                                                        | Beaufort, Jasper                                                                                                                                                                                                                                                                                                                                 |
| Amedysis Home Health of Bluffton                                                        | Allendale*, Beaufort, Hampton, Jasper                                                                                                                                                                                                                                                                                                            |
| Amedysis Home Health of Camden                                                          | Calhoun, Darlington*, Fairfield, Kershaw, Lexington,<br>Marlboro*, Newberry, Orangeburg, Richland                                                                                                                                                                                                                                                |
| Amedysis Home Health of Charleston                                                      | Berkeley, Charleston, Dorchester                                                                                                                                                                                                                                                                                                                 |
| Amedysis Home Health of Charleston East                                                 | Berkeley, Charleston, Colleton, Dorchester, Hampton                                                                                                                                                                                                                                                                                              |
| Amedysis Home Health of Clinton                                                         | Abbeville, Anderson*, Greenville, Greenwood, Laurens,<br>Spartanburg*, Union*                                                                                                                                                                                                                                                                    |
| Amedysis Home Health of Conway                                                          | Chesterfield*, Dillon*, Horry, Marion*                                                                                                                                                                                                                                                                                                           |
| Amedysis Home Health of Georgetown                                                      | Georgetown, Williamsburg                                                                                                                                                                                                                                                                                                                         |
| Amedysis Home Health of Lexington                                                       | Aiken*, Bamberg*, Barnwell*, Calhoun, Edgefield, Lee,<br>Lexington, McCormick*, Newberry, Orangeburg,<br>Richland, Saluda*, Sumter                                                                                                                                                                                                               |

**HOME HEALTH AGENCY INVENTORY  
(Chapter 11)**

| <b><u>Home Health Agency</u></b>                                                  | <b><u>Counties Served</u></b>                                                                                                   |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Amedysis Home Health of Myrtle Beach                                              | Horry                                                                                                                           |
| AnMed Health Home Health Agency                                                   | Anderson                                                                                                                        |
| Beaufort-Jasper Home Health Agency                                                | Beaufort, Jasper                                                                                                                |
| Bethea Home Health<br>(May Serve Retirement Community Only)                       | Darlington                                                                                                                      |
| Brightstar Care                                                                   | Lancaster*, York*                                                                                                               |
| Brightstar Care Lowcountry                                                        | Beaufort*, Jasper*                                                                                                              |
| Brightstar Care Upstate                                                           | Greenville*, Spartanburg*                                                                                                       |
| Caring Neighbors Home Health                                                      | Fairfield                                                                                                                       |
| Carolinas Home Health                                                             | Darlington, Dillon, Florence, Marlboro                                                                                          |
| Chesterfield Visiting Nurses Services                                             | Chesterfield, Darlington, Marlboro                                                                                              |
| Covenant Place CCRC Home Health Services<br>(May Serve Retirement Community Only) | Sumter                                                                                                                          |
| Critical Nurse Staffing, Inc.                                                     | Aiken*, Allendale*, Barnwell*, Beaufort*, Charleston*,<br>Edgefield*, Hampton*, Jasper*, Lexington*,<br>Orangeburg*, Richland*, |
| Cypress Club Home Health Agency<br>(May Serve Retirement Community Only)          | Beaufort                                                                                                                        |
| Encompass Home Health of South Carolina                                           | Aiken                                                                                                                           |
| Florence Visiting Nurses Services                                                 | Dillon, Florence, Lee, Marion                                                                                                   |
| Gentiva Health Services - Anderson                                                | Abbeville, Anderson, Cherokee, Greenville, Greenwood,<br>Laurens, McCormick, Oconee, Pickens, Spartanburg,<br>Union             |
| Gentiva Health Services - Charleston                                              | Berkeley, Charleston, Dorchester                                                                                                |

**HOME HEALTH AGENCY INVENTORY  
(Chapter 11)**

| <b><u>Home Health Agency</u></b>                                                                                                                                       | <b><u>Counties Served</u></b>                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Gentiva Health Services - Coastal                                                                                                                                      | Georgetown, Horry, Williamsburg                                                                                             |
| Gentiva Health Services - Columbia                                                                                                                                     | Lexington, Richland                                                                                                         |
| Gentiva Health Services - Greenville<br>(May Only Serve Patients in Union County with<br>Initial Diag Requiring IV Therapy and/or Home<br>Uterine Activity Monitoring) | Anderson, Cherokee, Greenville, Laurens, Oconee,<br>Pickens, Spartanburg, Union                                             |
| Gentiva Health Services - Low Country                                                                                                                                  | Allendale, Bamberg, Beaufort, Berkeley, Calhoun,<br>Charleston, Colleton, Dorchester, Hampton, Jasper,<br>Orangeburg        |
| Gentiva Health Services - Midlands                                                                                                                                     | Aiken, Barnwell, Chester, Edgefield, Fairfield, Kershaw,<br>Lancaster, Lexington, Newberry, Richland, Saluda, York          |
| Gentiva Health Services - Pee Dee                                                                                                                                      | Chesterfield, Clarendon, Darlington, Dillon, Florence,<br>Georgetown, Horry, Lee, Marion, Marlboro, Sumter,<br>Williamsburg |
| Gentiva Health Services - Upstate                                                                                                                                      | Cherokee, Chester, Union, York                                                                                              |
| GHS Home Health Agency                                                                                                                                                 | Greenville, Pickens                                                                                                         |
| GHS Home Health Agency - Oconee                                                                                                                                        | Anderson, Oconee, Pickens                                                                                                   |
| Health Related Home Care                                                                                                                                               | Abbeville, Anderson*, Edgefield, Greenville*,<br>Greenwood, Laurens, McCormick, Newberry*, Saluda                           |
| Healthy @ Home                                                                                                                                                         | Lancaster*, York*                                                                                                           |
| HomeCare of HospiceCare of the Piedmont<br>(May Only Serve Terminally Ill Patients in Saluda<br>County)                                                                | Abbeville, Greenwood, Laurens, McCormick, Saluda                                                                            |
| Home Care of Lancaster                                                                                                                                                 | Lancaster                                                                                                                   |
| HomeCare of the Regional Medical Center                                                                                                                                | Bamberg*, Calhoun, Orangeburg                                                                                               |

**HOME HEALTH AGENCY INVENTORY  
(Chapter 11)**

| <b><u>Home Health Agency</u></b>                                         | <b><u>Counties Served</u></b>                                                                                                      |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| HomeChoice Partners<br>(May Serve Pediatric Patients Only)               | Anderson, Cherokee, Greenville, Laurens, Oconee,<br>Pickens, Spartanburg, Union, & York                                            |
| Home Health Services of Self Regional Healthcare                         | Abbeville, Edgefield*, Greenwood, Laurens,<br>McCormick, Newberry*, Saluda                                                         |
| Home Helpers of Bluffton                                                 | Beaufort*, Jasper*                                                                                                                 |
| Incare Home Health                                                       | Berkeley*, Charleston*, Chesterfield*, Darlington*,<br>Dillon*, Florence*, Georgetown, Horry, Marion*,<br>Marlboro*, Williamsburg* |
| Interim HealthCare                                                       | Beaufort, Berkeley*, Charleston*, Dorchester*                                                                                      |
| Interim HealthCare of Greenville Inc. Personal<br>Care                   | Anderson, Cherokee, Greenville, Oconee, Pickens,<br>Spartanburg                                                                    |
| Interim HealthCare of Rock Hill                                          | York                                                                                                                               |
| Intrepid USA Healthcare Services                                         | Allendale, Berkeley, Charleston, Colleton, Dorchester,<br>Georgetown                                                               |
| Island Health Care                                                       | Beaufort, Jasper*                                                                                                                  |
| Kershawhealth Home Health                                                | Kershaw                                                                                                                            |
| Laurel Crest Home Health Agency<br>(May Serve Retirement Community Only) | Lexington                                                                                                                          |
| Liberty Home Care - Aiken                                                | Aiken                                                                                                                              |
| Liberty Home Care - Bennettsville                                        | Marlboro                                                                                                                           |
| Liberty Home Care - Myrtle Beach                                         | Horry                                                                                                                              |
| McLeod Home Health                                                       | Chesterfield*, Clarendon, Darlington, Dillon, Florence,<br>Horry*, Lee, Marion, Marlboro* Sumter*                                  |
| Methodist Manor Home Health<br>(May Serve Retirement Community Only)     | Florence                                                                                                                           |

**HOME HEALTH AGENCY INVENTORY**  
(Chapter 11)

| <b><u>Home Health Agency</u></b>                                                                | <b><u>Counties Served</u></b>                                             |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Methodist Oaks Campus Home Health<br>(May Serve Retirement Community Only)                      | Orangeburg                                                                |
| MUSC Health at Home by Bayada - Charleston                                                      | Charleston                                                                |
| Neighbors Care Home Health Agency an<br>Amedisys Company                                        | Cherokee*, Chester, Lancaster*, York*                                     |
| NHC HomeCare - Aiken                                                                            | Aiken, Barnwell*, Edgefield*, Orangeburg*                                 |
| NHC HomeCare - Beaufort                                                                         | Beaufort*, Colleton*, Jasper*, Hampton*                                   |
| NHC HomeCare - Greenwood                                                                        | Abbeville*, McCormick*, Greenwood, Newberry*,<br>Saluda*                  |
| NHC HomeCare - Laurens                                                                          | Anderson*, Greenville, Laurens, Spartanburg*                              |
| NHC HomeCare - LowCountry                                                                       | Bamberg*, Berkeley, Charleston*, Clarendon*,<br>Dorchester, Williamsburg* |
| NHC HomeCare - Midlands                                                                         | Calhoun*, Fairfield*, Kershaw*, Lexington, Richland,<br>Sumter*           |
| NHC HomeCare - Murrells Inlet                                                                   | Dillon*, Georgetown*, Horry*, Marion*                                     |
| NHC HomeCare - Piedmont                                                                         | Chester*, Lancaster*, Union*, York                                        |
| Palliative Care of the Lowcountry<br>(Restricted to Terminally Ill Residents)                   | Beaufort, Jasper                                                          |
| Palmetto Health HomeCare                                                                        | Lexington, Richland                                                       |
| Presbyterian Communities of SC Home Health<br>Agency<br>(May Serve Retirement Communities Only) | Berkeley, Dorchester, Florence, Laurens, Lexington,<br>Pickens            |

**HOME HEALTH AGENCY INVENTORY  
(Chapter 11)**

**Home Health Agency**

**Counties Served**

|                                                                               |                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PruittHealth Home Health Columbia                                             | Abbeville*, Anderson*, Calhoun*, Cherokee*, Chester*, Edgefield*, Fairfield*, Greenville*, Greenwood*, Kershaw*, Lancaster*, Laurens*, Lexington*, McCormick*, Newberry*, Oconee*, Pickens*, Richland*, Saluda*, Spartanburg*, Sumter*, Union*, York* |
| PruittHealth Home Health Florence                                             | Chesterfield*, Clarendon*, Darlington*, Dillon*, Florence*, Georgetown*, Horry*, Lee*, Marion*, Marlboro*, Williamsburg*                                                                                                                              |
| PruittHealth Home Health Low Country                                          | Aiken, Allendale*, Bamberg*, Barnwell*, Beaufort, Berkeley*, Charleston*, Colleton*, Dorchester*, Hapton*, Jasper*, Orangeburg*                                                                                                                       |
| PHC Home Health                                                               | Berkeley*, Charleston, Dorchester*                                                                                                                                                                                                                    |
| Renaissance Home Health, LLC                                                  | Abbeville*                                                                                                                                                                                                                                            |
| Rolling Green Village Home Health<br>(Serving Community Residents Only)       | Greenville                                                                                                                                                                                                                                            |
| Roper - St. Francis Home Health Care                                          | Berkeley, Charleston, Dorchester                                                                                                                                                                                                                      |
| Seabrook Wellness & Home Health Care<br>(May Serve Retirement Community Only) | Beaufort                                                                                                                                                                                                                                              |
| Sea Island Home Health                                                        | Charleston, Colleton                                                                                                                                                                                                                                  |
| South Carolina Homecare                                                       | Richland, Sumter                                                                                                                                                                                                                                      |
| Spartanburg Medical Center Home Health                                        | Cherokee*, Greenville*, Spartanburg, Union*                                                                                                                                                                                                           |
| St. Francis Hospital Home Care                                                | Anderson, Greenville, Pickens, Spartanburg                                                                                                                                                                                                            |
| Still Hopes Home Health<br>(May Serve Retirement Community Only)              | Lexington                                                                                                                                                                                                                                             |
| Tidewater Home Health, PA                                                     | Lexington*, Richland*                                                                                                                                                                                                                                 |

**HOME HEALTH AGENCY INVENTORY**  
**(Chapter 11)**

**Home Health Agency**

**Counties Served**

|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tri-County Home Health Care & Services                                                                     | Abbeville*, Aiken, Allendale, Anderson*, Bamberg*, Barnwell*, Beaufort*, Calhoun*, Cherokee*, Chester*, Clarendon*, Colleton*, Dorchester*, Edgefield*, Fairfield*, Greenville*, Greenwood*, Hampton*, Jasper*, Kershaw*, Lancaster*, Laurens*, Lee*, Lexington, Newberry*, McCormick*, Oconee*, Orangeburg*, Pickens*, Richland, Saluda, Spartanburg*, Sumter, Union*, York* |
| Trinity Home Health of Aiken                                                                               | Aiken, Barnwell, Edgefield                                                                                                                                                                                                                                                                                                                                                    |
| Palmetto Health Tuomey Home Health<br>(May Only Serve Terminally Ill Patients In Lee & Clarendon Counties) | Clarendon, Lee, Sumter                                                                                                                                                                                                                                                                                                                                                        |
| University Home Health - North Augusta                                                                     | Aiken, Edgefield                                                                                                                                                                                                                                                                                                                                                              |
| VNA of Greater Bamberg                                                                                     | Allendale, Bamberg, Barnwell, Calhoun, Colleton, Hampton, Orangeburg                                                                                                                                                                                                                                                                                                          |
| Wesley Commons Home Health Care<br>(May Serve Retirement Community Only)                                   | Greenwood                                                                                                                                                                                                                                                                                                                                                                     |
| Westminster Towers Home Health<br>(May Serve Retirement Community Only)                                    | York                                                                                                                                                                                                                                                                                                                                                                          |

\* Received CON in 2016-2017

## GLOSSARY

| TERM                                                       | DEFINITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SOURCE                     |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Adaptive Radiation Therapy (ART)                           | Patient setup and/or radiation delivery is evaluated and modified periodically during the treatment course based on imaging and dose measurements made prior to or during treatment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | South Carolina Health Plan |
| Affiliated Facilities                                      | Two or more health care facilities, whether inpatient or outpatient, owned, leased, or who have a formal legal relationship with a central organization and whose relationship has been established for reasons other than for transferring beds, equipment or services.                                                                                                                                                                                                                                                                                                                                                                                    | South Carolina Health Plan |
| Ambulatory Surgical Facility (ASF)                         | A distinct, freestanding, entity that is organized, administered, equipped and operated exclusively for the purpose of performing surgical procedures or related care, treatment, procedures, and/or services, for which patients are scheduled to arrive, receive surgery, or related care, treatment, procedures, and/or services, and be discharged on the same day. The owner or operator makes the facility available to other providers who comprise an organized professional staff (open medical staff). This definition does not apply to any facility used as an office or clinic for the private practice of licensed health care professionals. | South Carolina Health Plan |
| Basic Perinatal Center with Well Newborn Nursery (Level I) | Level I hospitals provide services for normal uncomplicated pregnancies. A full list of the requirements for a Level I Basic Perinatal Center with Well Newborn Nursery can be found at Regulation 61-16, Section 1306.A. <i>Certificate of Need review is not required to establish a Level I program.</i>                                                                                                                                                                                                                                                                                                                                                 | South Carolina Health Plan |
| Bed Capacity                                               | Bed space designated exclusively for inpatient care, including space originally designed or remodeled for inpatient beds, even though temporarily not used for such purposes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | South Carolina Health Plan |
| Cardiac Catheterization Procedure                          | An invasive procedure where a thin, flexible catheter is inserted into a blood vessel; the physician then manipulates the free end of the catheter into the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | South Carolina Health Plan |

chambers or vessels of the heart. All activities performed during one clinical session, including angiocardiology, coronary arteriography, pulmonary arteriography, coronary angioplasty and other diagnostic or therapeutic measures and physiologic studies shall be considered one procedure.

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| Complex Neonatal Intensive Care Unit (Level IV)         | In addition to the requirements of Regulation 61-16, Sections 1306.A through 1306.C, Level IV hospitals shall include additional capabilities and considerable experience in the care of the most complex and critically ill newborn infants and have pediatric medical and surgical specialty consultants available 24 hours a day. A full list of the requirements for a Complex Neonatal Intensive Care Unit can be found at <u>Regulation 61-16, Section 1306.E</u> . A Level IV hospital need not act as a Regional Perinatal Center (RPC). <i>Certificate of Need Review is required to establish a Level IV program.</i> | South Carolina Health Plan |
| Comprehensive Catheterization Laboratory                | A dedicated room or suite of rooms in which PCI as well as diagnostic and therapeutic catheterizations are performed. They are located only in hospitals approved to provide open heart surgery, although diagnostic laboratories are allowed to perform emergent and/or elective therapeutic catheterizations in compliance with Standard 7 or 8 in the Plan.                                                                                                                                                                                                                                                                  | South Carolina Health Plan |
| Conformal Radiation Therapy (CRT)                       | Since the target often has a complex shape, CT, MRI, or PET is used to create a 3-D image of the tumor. Using the image, the computer designs the radiation beams to be shaped exactly (conform) to the contour of the treatment area.                                                                                                                                                                                                                                                                                                                                                                                          | South Carolina Health Plan |
| Continuing Care Retirement Community Home Health Agency | A licensed continuing care retirement community that also incorporates a skilled nursing facility may provide home health services and <i>does not require Certificate of Need review provided:</i> <ol style="list-style-type: none"> <li>The continuing care retirement furnishes or offers to furnish home health services only to residents who reside in living units provided by</li> </ol>                                                                                                                                                                                                                               | South Carolina Health Plan |

the continuing care retirement community pursuant to a continuing care contract;

- b. The continuing care retirement community maintains a current license and meets the applicable home health agency licensing standards; and
- c. Residents of the continuing care retirement community may choose to obtain home health services from other licensed home health agencies.

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| Critical Access Hospital (CAH)        | Hospitals eligible for increased reimbursement without having to meet all criteria for full-service acute care hospitals. They are intended to provide essential health services to rural communities. In order to qualify as a CAH, a hospital must be located in a rural county and be located more than 35 miles from any other hospital or CAH (15 miles for areas with only secondary roads). It must be part of a rural health network with at least one full-service hospital. They can have a maximum of 25 licensed beds and the annual average length of stay must be less than 4 days. Emergency services must be available 24 hours a day. | South Carolina Health Plan |
| Diagnostic Catheterization            | A cardiac catheterization during which any or all of the following diagnostic procedures or measures are performed: Blood Pressure; Oxygen Content and Flow Measurements; Angiocardiology, Coronary Arteriography; and Pulmonary Arteriography.                                                                                                                                                                                                                                                                                                                                                                                                        | South Carolina Health Plan |
| Diagnostic Catheterization Laboratory | A dedicated room in which only diagnostic catheterizations are performed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | South Carolina Health Plan |
| Elective PCI                          | Scheduled in advance and performed on a patient with cardiac function that has been stable in the days prior to the procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | South Carolina Health Plan |

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| Electronic Portal Imaging Devices (EPIDs)      | EPIDs have been developed because of the increased complexity of treatment planning and delivery techniques. The most common EPIDs are video-based systems wherein on-line digital port images are captured and analyzed before or during treatment. These systems are used for pre-treatment verification of Intensity Modulated Radiation Therapy fields and to reduce errors in patient positioning.                                                                                                | South Carolina Health Plan |
| Emergent or Primary PCI                        | Means that a patient needs immediate PCI because, in the treating physician's best clinical judgment, delay would result in undue harm or risk to the patient.                                                                                                                                                                                                                                                                                                                                         | South Carolina Health Plan |
| Endoscope                                      | A flexible, semi-flexible or rigid instrument, which may or may not have a light attached, that is inserted into a natural orifice in a non-sterile, clean environment, to visually inspect for purposes of screening and diagnosis and to perform therapeutic treatment of the interior of a bodily canal or a hollow organ (such as the colon, bladder, stomach or nasal sinuses).                                                                                                                   | South Carolina Health Plan |
| Fractionation                                  | The practice of providing only a small fraction of the entire prescribed dose of radiation in each treatment or session. Individual treatment plans are created to minimize the side effects for normal tissue. The typical fractionation schedule for adults is once per day, five days a week. Hyperfractionation (Superfractionation) refers to radiation given in smaller doses twice a day. In Hypofractionation, individual doses are given less often than daily, such as in two-five sessions. | South Carolina Health Plan |
| Freestanding Medical Detoxification Facilities | Short-term residential facility, separated from an inpatient treatment facility, providing for medically supervised withdrawal from psychoactive substance-induced intoxication, with the capacity to provide screening for medical complications of alcoholism and/or drug abuse, a structured program of counseling, if appropriate, and referral for further rehabilitation. <i>A Certificate of Need is required for a medical detoxification program.</i>                                         | South Carolina Health Plan |

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| General Hospital     | A facility with an organized medical staff to maintain and operate organized facilities and services to accommodate two or more nonrelated persons for the diagnosis, treatment and care of such persons over a period exceeding 24 hours and provides medical and surgical care of acute illness, injury or infirmity and may provide obstetrical care, and in which all diagnoses, treatment or care are administered by or performed under the direction of persons currently licensed to practice medicine and surgery in the State of South Carolina. | <a href="#">S.C. Code of Regulations 61-16, Section 101(1)(A)</a> |
| Health Care Facility | Acute care, hospitals, psychiatric hospitals, alcohol and substance abuse hospitals, nursing homes, ambulatory surgical facilities, hospice facilities, radiation therapy facilities, rehabilitation facilities, residential treatment facilities for children and adolescents, intermediate care facilities for person with intellectual disability, narcotic treatment programs, and any other facility for which Certificate of Need review is required by federal law.                                                                                 | <a href="#">S.C. Code Ann. Section 44-7-130(10)</a>               |
| Health Service       | Clinically related, diagnostic, treatment, or rehabilitative services and includes alcohol, drug abuse, and mental health services for which specific standards or criteria are prescribed in the South Carolina Health Plan.                                                                                                                                                                                                                                                                                                                              | <a href="#">S.C. Code Ann. Section 44-7-130(11)</a>               |
| Home Health Agency   | A public, nonprofit, or proprietary organization, whether owned or operated by one or more persons or legal entities, which furnishes or offers to furnish home health services.                                                                                                                                                                                                                                                                                                                                                                           | South Carolina Health Plan                                        |
| Home Health Service  | Home health services means those items and services furnished to an individual by a home health agency, or by others under arrangement with the home health agency, on a visiting basis and except for (f) below, in a place of temporary or permanent residence used as the individual's home as follows:<br><br>Part-time or intermittent skilled nursing care as ordered by a physician or podiatrist and provided by or under the supervision of a registered nurse and at                                                                             | South Carolina Health Plan                                        |

least one other therapeutic service listed below: (a) physical, occupational, or speech therapy; (b) medical social services; (c) home health aide services; (d) other therapeutic services; (e) medical supplies as indicated in the treatment plan and the use of medical appliances, to include durable medical equipment; and (f) any of the above items and services provided on an outpatient basis under arrangements made by the home health agency with a hospital, nursing home or rehabilitation center and the furnishing of which involves the use of equipment of such a nature that the items/services cannot readily be made available to the individual in his/her home, or which are furnished at one of the above facilities while the patient is there to receive such items or services. Transportation of the individual in connection with any such items or services is not included.

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| Hospice          | A centrally administered, interdisciplinary health care program, which provides a continuum of medically supervised palliative and supportive care for the terminally ill patient and the family or responsible party, including, but not limited to home, outpatient and inpatient services provided directly or through written agreement. <i>Home-based and outpatient hospice programs do not require Certificate of Need review.</i> | South<br>Carolina<br>Health Plan                            |
| Hospice Facility | An institution, place or building licensed by the Department to provide room, board and appropriate hospice care on a 24-hour basis to individuals requiring such services pursuant to the orders of a physician. <i>A Certificate of Need is required for a hospice facility.</i>                                                                                                                                                        | South<br>Carolina<br>Health Plan                            |
| Hospice Program  | An entity licensed by the Department that provides appropriate hospice care to individuals as described in the first paragraph above, exclusive of the services provided by a hospice facility. <i>A Certificate of Need is not required for a hospice program.</i>                                                                                                                                                                       | South<br>Carolina<br>Health Plan                            |
| Hospital         | A facility organized and administered to provide overnight medical, surgical, or nursing care of illness, injury, or infirmity and may provide                                                                                                                                                                                                                                                                                            | <a href="#">S.C. Code<br/>Ann. Section<br/>44-7-130(12)</a> |

obstetrical care, and in which all diagnoses, treatment, or care is administered by or under the direction of persons currently licensed to practice medicine, surgery, or osteopathy.

Hospital may include residential treatment facilities for children and adolescents in need of mental health treatment which are physically a part of a licensed psychiatric hospital. This definition does not include facilities which are licensed by the Department of Social Services.

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| Hospital Bed                          | A bed for an adult or child patient. Bassinets for the newborn in a maternity unit nursery, beds in labor rooms, recovery rooms, and other beds used exclusively for emergency purposes are not included in this definition.                                                                                                                                                                                                                                                         | South Carolina Health Plan |
| Image-Guided Radiation Therapy (IGRT) | Combines with IMRT or CRT to visualize the patient's anatomy during treatments. This allows for confirmation of beam location and adjustment of the beams if needed during treatments due to breathing. IGRT facilitates more accurate patient positioning and reduces healthy tissue damage.                                                                                                                                                                                        | South Carolina Health Plan |
| Inpatient Psychiatric Services        | Those services provided to patients who are admitted to institutions for the evaluation, diagnosis, and treatment of mental, emotional, or behavioral disorders. Services may be provided in either psychiatric units of general hospitals or freestanding psychiatric hospitals.                                                                                                                                                                                                    | South Carolina Health Plan |
| Inpatient Treatment Facility          | Short-term treatment service for persons who are in need of an organized intensive program of alcohol and/or drug rehabilitation, but who are without serious debilitating medical complications. These facilities may provide detoxification for their patients, as needed, in the inpatient treatment beds. These facilities are licensed either as a specialized hospital or as part of a hospital. <i>A Certificate of Need is required for an Inpatient Treatment Facility.</i> | South Carolina Health Plan |

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| Institutional Nursing Facility               | <p>A nursing facility established within the jurisdiction of a larger non-medical institution that maintains and operates organized facilities and services to accommodate only students, residents or inmates of the institution. These facilities provide necessary services for retirement communities as established by church, fraternal, or other organizations. Such beds must serve only the residents of the housing complex and either be developed after the housing has been established or be developed as a part of a total housing construction program that has documented that the entire complex is one inseparable project. To be considered under this special bed category, the following criteria must be met:</p> <ol style="list-style-type: none"> <li>1. The nursing facility must be a part of and located on the campus of the retirement community.</li> <li>2. It must restrict admissions to campus residents.</li> <li>3. The facility may not participate in the Medicaid program.</li> </ol> <p>There is no projection of need for this bed category. The applicant must demonstrate that the proposed number of beds is justified and that the facility meets the above qualifications.</p> | South Carolina Health Plan |
| Intensity Modulated Radiation Therapy (IMRT) | Creates a 3-D radiation dose map to treat the tumor. It uses a multi-leaf collimator to modulate or control the outlines and intensity of the radiation field during cancer treatment. Due to its precision it can spare more healthy tissue, but it also requires detailed data collection and takes longer than conventional therapy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | South Carolina Health Plan |
| Long-Term Acute Care Hospital (LTACH)        | Hospitals with an average Medicare inpatient length of stay of greater than 25 days, including all covered and non-covered days of stay of Medicare patients. They provide treatment to patients with complex medical conditions, such as strokes, cardiac care, ventilator dependency, wound care and post-surgical care.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | South Carolina Health Plan |

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| Nursing Facility              | Facilities which provide inpatient care for convalescent or chronic disease residents who require nursing care and related medical services. Such nursing care and medical services are prescribed by, or are performed under the general direction of, persons licensed to practice medicine or surgery in the State. Facilities furnishing primarily domiciliary care are not included.                                                                                                                                                                                                                                                                                                                                          | South Carolina Health Plan |
| Open Heart Surgery            | An operation performed on the heart or intrathoracic great vessels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | South Carolina Health Plan |
| Open Heart Surgical Procedure | An operation performed on the heart or intrathoracic great vessels within an open heart surgical unit. All activities performed during one clinical session shall be considered one procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | South Carolina Health Plan |
| Open Heart Surgical Program   | <p>The combination of staff, equipment, physical space and support services which is used to perform open heart surgery. Adult open heart surgical programs should have the capacity to perform a full range of procedures, including:</p> <ol style="list-style-type: none"> <li>1. repair/replacement of heart valves;</li> <li>2. repair of congenital defects;</li> <li>3. cardiac revascularization;</li> <li>4. repair/reconstruction of intrathoracic vessels;</li> <li>and</li> <li>5. treatment of cardiac traumas.</li> </ol> <p>In addition, open heart programs must have the ability to implement and apply circulatory assist devices such as intra-aortic balloon and prolonged cardiopulmonary partial bypass.</p> | South Carolina Health Plan |
| Open Heart Surgery Unit       | An operating room or suite of rooms equipped and staffed to perform open heart surgery procedures; such designation does not preclude its use for other related surgeries, such as vascular surgical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | South Carolina Health Plan |

procedures. A hospital with an open heart surgery program may have one or more open heart surgery units.

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| Opioid Treatment Program                 | Provide medications for the rehabilitation of persons dependent on opium, morphine, heroin or any derivative or synthetic drug of that group. Opioid maintenance therapy (OMT) is an umbrella term that encompasses a variety of pharmacologic and nonpharmacologic treatment modalities, including the therapeutic use of specialized opioid compounds such as methadone, suboxone and buprenorphine to psychopharmacologically occupy opiate receptors in the brain, extinguish drug craving and thus establish a maintenance state. <i>A Certificate of Need is required for an Opioid Treatment Program.</i>                | South Carolina Health Plan |
| Outpatient Facility                      | Provide treatment/care/services to individuals dependent upon or addicted to psychoactive substances and their families based on an individual treatment plan in a nonresidential setting. <i>A Certificate of Need is not required for outpatient facilities.</i>                                                                                                                                                                                                                                                                                                                                                              | South Carolina Health Plan |
| Pediatric Home Health Agency             | Due to the limited number of home health providers available to treat children 18 years or younger, an exception to the home health criteria may be made for a Certificate of Need for a Home Health Agency restricted to providing intermittent home health skilled nursing services to patients 18 years or younger. The license for the agency will be restricted to serving children 18 years or younger and will ensure access to necessary and appropriate intermittent home health skilled nursing services to these patients. Any such agencies are not counted in the county inventories for need projection purposes. | South Carolina Health Plan |
| Percutaneous Coronary Intervention (PCI) | A therapeutic procedure to relieve coronary narrowing, such as Percutaneous Transluminal Coronary Angioplasty (PTCA) or Coronary Stent Implantation. These procedures may be performed on                                                                                                                                                                                                                                                                                                                                                                                                                                       | South Carolina Health Plan |

an emergent or elective basis. "Emergent or Primary" means that a patient needs immediate PCI because, in the treating physician's best clinical judgment, delay would result in undue harm or risk to the patient. An "Elective" PCI is scheduled in advance and performed on a patient with cardiac function that has been stable in the days prior to the procedure. A therapeutic catheterization procedure used to revascularize occluded or partially occluded coronary arteries. A catheter with a balloon or a stent is inserted into the blood vessel and guided to the site of the constriction in the vessel. These procedures may be performed on an emergent or elective basis.

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|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Person                                                            | An individual, a trust or estate, a partnership, a corporation including an association, joint stock company, insurance company, and a health maintenance organization, a health care facility, a state, a political subdivision, or an instrumentality including a municipal corporation of a state, or any legal entity recognized by the State.                                                                                                                                                                                                                                      | <a href="#">S.C. Code Ann. Section 44-7-130(15)</a> |
| Regional Perinatal Center with Neonatal Intensive Care Unit (RPC) | In addition to the requirements of Regulation 61-16, Sections 1306.A through 1306.C, RPCs provide consultative, outreach, and support services to other hospitals in the region. A full list of the requirements for a Regional Perinatal Center can be found at Regulation 61-16, Section 1306.D. No more than one Regional Perinatal Center will be approved in each perinatal region. <i>The establishment of a Regional Perinatal Center requires Certificate of Need review.</i>                                                                                                   | South Carolina Health Plan                          |
| Residential Treatment Facility for Children and Adolescents       | Operated for the assessment, diagnosis, treatment, and care of children and adolescents in need of mental health treatment. This means a child or adolescent up to age 21 who manifests a substantial disorder of cognitive or emotional process, which lessens or impairs to a marked degree that child's capacity either to develop or to exercise age-appropriate or age-adequate behavior. The behavior includes, but is not limited to, marked disorders of mood or thought processes, severe difficulties with self-control and judgment, including behavior dangerous to self or | South Carolina Health Plan                          |

others, and serious disturbances in the ability to care for and relate to others. These facilities provide medium to long-term care (6 months or longer). Treatment modalities are both medical and behavioral in nature.

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| Residential Treatment Program Facility                          | 24-hour facilities offering an organized service in a residential setting, which is designed to improve the client's ability to structure and organize the tasks of daily living and recovery through planned clinical activities, counseling, and clinical monitoring in order to promote successful involvement or re-involvement in regular, productive, daily activity, and, as indicated, successful reintegration into family living. <i>A Certificate of Need is not required for a Residential Treatment Program.</i> | South Carolina Health Plan |
| Social Detoxification Facility                                  | Facilities which provide supervised withdrawal from alcohol or other drugs in which neither the client's level of intoxication nor physical condition is severe enough to warrant direct medical supervision or the use of medications to assist in withdrawal, but which maintains medical backup and provides a structured program of counseling, if appropriate, educational services, and referral for further rehabilitation. <i>A Certificate of Need is not required for these facilities.</i>                         | South Carolina Health Plan |
| Specialty Perinatal Center with Special Care Nursery (Level II) | In addition to the requirements of Regulation 61-16, Section 1306.A, Level II hospitals provide services for both normal and selected high-risk obstetrical and neonatal patients. A full list of the requirements for a Level II Specialty Perinatal Center can be found at Regulation 61-16, Section 1306.B. <i>Certificate of Need review is not required to establish a Level II program.</i>                                                                                                                             | South Carolina Health Plan |
| Stereotactic Body Radiation Therapy (SBRT)                      | A precision radiation therapy delivery concept derived from cranial stereotactic radiosurgery. It is characterized by one to five fraction delivery of focal high-dose radiation while limiting dose to surrounding normal tissues. SBRT has become an established treatment technique for lung, liver, and spinal lesions.                                                                                                                                                                                                   | South Carolina Health Plan |

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| Stereotactic Radiation Therapy (SRT)                                        | An approach similar to Stereotactic Radiosurgery that delivers radiation to the target tissue. However, the total dose of radiation is divided into several smaller doses given over several days, rather than a single large dose. The treatment time per session typically ranges from 30 to 90 minutes for two-five sessions. It can be used to treat both brain and extracranial tumors.                                                                                                                                                                                                                                                                                                  | South Carolina Health Plan |
| Stereotactic Radiosurgery (SRS)                                             | A single-session procedure used to treat brain tumors and other brain disorders that cannot be treated by regular surgery. The radiation dose given in one session is usually less than the total dose that would be given with radiation therapy. However, the tumor receives a very high one-time dose of radiation with radiosurgery versus smaller fractions over time with radiation therapy. It is also known as Stereotaxic Radiosurgery or Radiation Surgery.                                                                                                                                                                                                                         | South Carolina Health Plan |
| Subspecialty Perinatal Center with Neonatal Intensive Care Unit (Level III) | In addition to the requirements of Regulation 61-16, Sections 1306.A and 1306.B, Level III hospitals provide all aspects of perinatal care, including intensive care and a range of continuously available, sub-specialty consultation as recommended in the most recent edition of the <i>Guidelines for Perinatal Care</i> (GPC) by the American Academy of Pediatrics (AAP) and The American College of Obstetricians and Gynecologists. A full list of the requirements for a Level III Subspecialty Perinatal Center with Neonatal Intensive Care Unit can be found at Regulation 61-16, Section 1306.C. <i>Certificate of Need Review is required to establish a Level III program.</i> | South Carolina Health Plan |
| Swing-Bed                                                                   | <a href="#">The Social Security Act (Section 1883(a)(1), [42 U.S.C. 1395tt])</a> permits certain small, rural hospitals to enter into a "Swing Bed" agreement, under which the hospital can use its beds to provide either acute or skilled nursing care, as needed. The hospital must be located in a rural area and have fewer than 100 beds. <i>A Certificate of Need is not required to participate in the Swing Bed Program.</i>                                                                                                                                                                                                                                                         | South Carolina Health Plan |

Therapeutic  
Catheterization

A cardiac catheterization during which any or all of the following interventional procedures are performed: PTCA; Thrombolytic Agent Infusion; Directional Coronary Atherectomy; Rotational Atherectomy; Extraction Atherectomy; Coronary Stent Implants and Cardiac Valvuloplasty.

South  
Carolina  
Health Plan



C. Earl Hunter, Commissioner

*Promoting and protecting the health of the public and the environment.*

**Certified Mail**

91 7108 2133 3933 8651 9949

March 31, 2009

Ms. Shannon Cantwell  
Regulatory Affairs Specialist  
Roper St. Francis Healthcare  
125 Doughty Street Suite 760  
Charleston, SC 29403

Re: Construction of a new hospital by transferring fifty (50) acute care beds from Roper Hospital to include a multi-slice Computed Tomography (CT) scanner and a 1.5T Magnetic Resonance Imaging (MRI) unit for a total license bed capacity of fifty (50) acute care beds at Roper St. Francis Berkeley and three hundred eighteen (318) total licensed beds at Roper Hospital; the facility will be located on Highway 17A in Goose Creek, South Carolina

Roper St. Francis Hospital-Berkeley  
Goose Creek, South Carolina

Dear Ms. Cantwell:

This is to notify you that the above referenced project has been determined to be complete for purposes of review by the Office of Certification of Need. Enclosed is an invoice for the required Certificate of Need application fee.

The Department will notify affected persons, which begins the review period, only after the appropriate application fee is paid by valid check made payable to the S.C. Department of Health and Environmental Control. Should the application fee not be received within 15 days from receipt of the Department's invoice by the applicant, the Certificate of Need application will be considered withdrawn.

Should the application fee be received within 15 days, a proposed decision will be made by this Department within 60 days from the date of notification of affected persons unless a public hearing is held. In cases where a public hearing is conducted, the Department will render a proposed decision within 60 days from the date of such public hearing.

In accordance with Section 304 of Regulation No. 61-15, Certification of Need for Health Facilities and Services, the following project review criteria are considered more important in the review of this application. These criteria are ranked according to their relative importance with the most important being listed first. All other relevant criteria will be given equal importance.

**SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**

**Health Regulation**

2600 Bull Street • Columbia, SC 29201 • [www.scdhec.gov](http://www.scdhec.gov)

**001107**

**ROA 005492**

Ms. Shannon Cantwell  
March 31, 2009  
Page 2

1. Compliance with the South Carolina Health Plan - 1
2. Community Need Documentation – 2a, 2b, 2c, 2e  
Distribution (Accessibility) – 3a, 3b, 3c, 3d, 3e, 3f
3. Financial Feasibility-15
4. Acceptability-4a, 4b, 4c  
Adverse Effects on Other Facilities – 23a
5. Distribution - 22

If you wish to provide any information regarding the relative importance of the project review criteria, you must provide written comments within thirty (30) days of your receipt of this letter. However, any supplementary information relative to your application will be accepted until a proposed decision is made regarding this project by Department staff.

Should you require further information, please contact me at (803) 545-4200.

Sincerely,



Lisa D. Sanders, Health Planning Analyst  
Bureau of Health Facilities and Services Development

Enclosure: Invoice

cc: Ralph Barbier  
Jim Rardin  
Andrea Brisbin

001108

ROA 005493



C. Earl Hunter, Commissioner

*Promoting and protecting the health of the public and the environment.*

**Certified Mail**

91 7108 2133 3435 6247 0960

January 9, 2009

Re: Construction to establish a fifty (50) bed acute care hospital through the transfer of 50 acute care beds from the bed need generate by Trident Medical Center to include a Magnetic Resonance Imaging (MRI) unit and a Computed Tomography (CT) scanner; the proposed facility is to be located adjacent to the current site of the Moncks Corner Medical Center at the intersection of Martin Luther King Drive and Highway 17A; the existing Moncks Corner Medical Center will be converted into a medical office building housing physician offices and clinics

Berkeley Medical Center  
Charleston, South Carolina

Mr. Jim Rardin, Vice President  
Trident Health System  
9330 Medical Plaza Drive  
Charleston, South Carolina 29406

Dear Mr. Rardin:

This is to notify you that the above referenced project has been determined to be complete for purposes of review by the Office of Certification of Need. Enclosed is an invoice for the required Certificate of Need application fee.

The Department will notify affected persons, which begins the review period, only after the appropriate application fee is paid by valid check made payable to the S.C. Department of Health and Environmental Control. Should the application fee not be received within 15 days from receipt of the Department's invoice by the applicant, the Certificate of Need application will be considered withdrawn.

Should the application fee be received within 15 days, a proposed decision will be made by this Department within 60 days from the date of notification of affected persons unless a public hearing is held. In cases where a public hearing is conducted, the Department will render a proposed decision within 60 days from the date of such public hearing.

In accordance with Section 304 of Regulation No. 61-15, Certification of Need for Health Facilities and Services, the following project review criteria are considered more important in the review of this application. These criteria are ranked according to their relative importance with the most important being listed first. All other relevant criteria will be given equal importance.

**SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**

**Health Regulation**

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00072~

**ROA 005494**

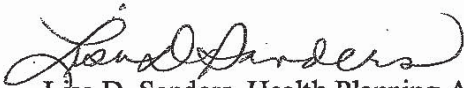
Mr. Jim Rardin  
January 9, 2009  
Page 2

1. Compliance with the South Carolina Health Plan - 1
2. Community Need Documentation -- 2a, 2b, 2c, 2e  
Distribution (Accessibility) -- 3a, 3b, 3c, 3d, 3e, 3f
3. Financial Feasibility-15
4. Acceptability-4a, 4b, 4c  
Adverse Effects on Other Facilities -- 23a
5. Distribution - 22

If you wish to provide any information regarding the relative importance of the project review criteria, you must provide written comments within thirty (30) days of your receipt of this letter. However, any supplementary information relative to your application will be accepted until a proposed decision is made regarding this project by Department staff.

Should you require further information, please contact me at (803) 545-4200.

Sincerely,



Lisa D. Sanders, Health Planning Analyst  
Bureau of Health Facilities and Services Development

Enclosure: Invoice

cc: Andrea Brisbin  
Ralph Barbier  
Shannon Cantwell

000027

# MUHA EXHIBIT 02-001

Resp-MUHA  
Trial Exhibit  
**MUHA-2**

ROA 005496

| fips         | county                | Age group        | Estimates 2017<br>Total | Estimates 2018<br>Total | Projection 2019<br>Total | Projection 2020<br>Total | Projection 2021<br>Total |
|--------------|-----------------------|------------------|-------------------------|-------------------------|--------------------------|--------------------------|--------------------------|
| 45000        | South Carolina        | 0-17 YRS         | 1,103,430               | 1,105,945               | 1,116,940                | 1,121,355                | 1,125,740                |
| 45000        | South Carolina        | 15-44 YRS        | 1,925,913               | 1,941,255               | 1,962,740                | 1,984,350                | 2,005,935                |
| 45000        | South Carolina        | 18-64 YRS        | 3,053,755               | 3,078,267               | 3,093,845                | 3,116,125                | 3,138,270                |
| 45000        | South Carolina        | 5-21 YRS         | 1,076,240               | 1,082,750               | 1,088,280                | 1,094,070                | 1,099,835                |
| 45000        | South Carolina        | 65-74 YRS        | 532,939                 | 549,831                 | 567,725                  | 585,605                  | 603,460                  |
| 45000        | South Carolina        | 65 YRS and older | 864,034                 | 899,915                 | 937,895                  | 975,860                  | 1,013,745                |
| 45000        | South Carolina        | 75 YRS and older | 331,095                 | 350,084                 | 370,170                  | 390,255                  | 410,285                  |
| <b>45000</b> | <b>South Carolina</b> | <b>Total</b>     | <b>5,021,219</b>        | <b>5,084,127</b>        | <b>5,148,680</b>         | <b>5,213,340</b>         | <b>5,277,755</b>         |
| 45001        | Abbeville             | 0-17 YRS         | 5,063                   | 4,924                   | 4,915                    | 4,840                    | 4,755                    |
| 45001        | Abbeville             | 15-44 YRS        | 8,440                   | 8,408                   | 8,360                    | 8,330                    | 8,300                    |
| 45001        | Abbeville             | 18-64 YRS        | 14,306                  | 14,274                  | 14,045                   | 13,895                   | 13,755                   |
| 45001        | Abbeville             | 5-21 YRS         | 5,233                   | 5,194                   | 5,035                    | 4,940                    | 4,840                    |
| 45001        | Abbeville             | 65-74 YRS        | 3,083                   | 3,150                   | 3,175                    | 3,200                    | 3,230                    |
| 45001        | Abbeville             | 65 YRS and older | 5,191                   | 5,343                   | 5,450                    | 5,555                    | 5,670                    |
| 45001        | Abbeville             | 75 YRS and older | 2,108                   | 2,193                   | 2,275                    | 2,355                    | 2,440                    |
| <b>45001</b> | <b>Abbeville</b>      | <b>Total</b>     | <b>24,560</b>           | <b>24,541</b>           | <b>24,410</b>            | <b>24,290</b>            | <b>24,180</b>            |
| 45003        | Aiken                 | 0-17 YRS         | 36,907                  | 36,849                  | 36,550                   | 36,515                   | 36,470                   |
| 45003        | Aiken                 | 15-44 YRS        | 60,595                  | 60,581                  | 60,845                   | 61,120                   | 61,395                   |
| 45003        | Aiken                 | 18-64 YRS        | 99,500                  | 99,651                  | 99,740                   | 99,590                   | 99,435                   |
| 45003        | Aiken                 | 5-21 YRS         | 34,541                  | 34,547                  | 34,660                   | 34,685                   | 34,715                   |
| 45003        | Aiken                 | 65-74 YRS        | 19,199                  | 19,588                  | 20,100                   | 20,600                   | 21,110                   |
| 45003        | Aiken                 | 65 YRS and older | 31,849                  | 32,901                  | 34,055                   | 35,205                   | 36,355                   |
| 45003        | Aiken                 | 75 YRS and older | 12,650                  | 13,313                  | 13,955                   | 14,605                   | 15,245                   |
| <b>45003</b> | <b>Aiken</b>          | <b>Total</b>     | <b>168,256</b>          | <b>169,401</b>          | <b>170,345</b>           | <b>171,310</b>           | <b>172,260</b>           |
| 45005        | Allendale             | 0-17 YRS         | 1,710                   | 1,680                   | 1,620                    | 1,575                    | 1,530                    |
| 45005        | Allendale             | 15-44 YRS        | 3,362                   | 3,346                   | 3,270                    | 3,175                    | 3,110                    |
| 45005        | Allendale             | 18-64 YRS        | 5,541                   | 5,433                   | 5,295                    | 5,115                    | 4,975                    |
| 45005        | Allendale             | 5-21 YRS         | 1,688                   | 1,651                   | 1,630                    | 1,565                    | 1,520                    |
| 45005        | Allendale             | 65-74 YRS        | 1,129                   | 1,144                   | 1,125                    | 1,110                    | 1,095                    |
| 45005        | Allendale             | 65 YRS and older | 1,750                   | 1,790                   | 1,805                    | 1,825                    | 1,845                    |
| 45005        | Allendale             | 75 YRS and older | 621                     | 646                     | 680                      | 715                      | 750                      |
| <b>45005</b> | <b>Allendale</b>      | <b>Total</b>     | <b>9,001</b>            | <b>8,903</b>            | <b>8,720</b>             | <b>8,515</b>             | <b>8,350</b>             |
| 45007        | Anderson              | 0-17 YRS         | 45,640                  | 45,852                  | 45,835                   | 46,085                   | 46,335                   |
| 45007        | Anderson              | 15-44 YRS        | 72,056                  | 72,796                  | 73,710                   | 74,630                   | 75,540                   |
| 45007        | Anderson              | 18-64 YRS        | 117,380                 | 118,445                 | 119,530                  | 120,365                  | 121,175                  |
| 45007        | Anderson              | 5-21 YRS         | 43,053                  | 43,393                  | 43,730                   | 43,980                   | 44,230                   |
| 45007        | Anderson              | 65-74 YRS        | 20,911                  | 21,233                  | 21,630                   | 22,020                   | 22,410                   |

# MUHA EXHIBIT 02-002

ROA 005497

|              |                 |                  |                |                |                |                |                |
|--------------|-----------------|------------------|----------------|----------------|----------------|----------------|----------------|
| 45007        | Anderson        | 65 YRS and older | 35,248         | 36,185         | 37,155         | 38,120         | 39,080         |
| 45007        | Anderson        | 75 YRS and older | 14,337         | 14,952         | 15,525         | 16,100         | 16,670         |
| <b>45007</b> | <b>Anderson</b> | <b>Total</b>     | <b>198,268</b> | <b>200,482</b> | <b>202,520</b> | <b>204,570</b> | <b>206,590</b> |
| 45009        | Bamberg         | 0-17 YRS         | 2,800          | 2,724          | 2,835          | 2,760          | 2,690          |
| 45009        | Bamberg         | 15-44 YRS        | 5,217          | 5,186          | 5,040          | 4,890          | 4,745          |
| 45009        | Bamberg         | 18-64 YRS        | 8,550          | 8,454          | 8,055          | 7,840          | 7,620          |
| 45009        | Bamberg         | 5-21 YRS         | 3,335          | 3,275          | 3,080          | 2,975          | 2,880          |
| 45009        | Bamberg         | 65-74 YRS        | 1,760          | 1,797          | 1,810          | 1,825          | 1,845          |
| 45009        | Bamberg         | 65 YRS and older | 3,047          | 3,097          | 3,140          | 3,180          | 3,230          |
| 45009        | Bamberg         | 75 YRS and older | 1,287          | 1,300          | 1,330          | 1,355          | 1,385          |
| <b>45009</b> | <b>Bamberg</b>  | <b>Total</b>     | <b>14,397</b>  | <b>14,275</b>  | <b>14,030</b>  | <b>13,780</b>  | <b>13,540</b>  |
| 45011        | Barnwell        | 0-17 YRS         | 5,129          | 5,036          | 4,900          | 4,820          | 4,750          |
| 45011        | Barnwell        | 15-44 YRS        | 7,535          | 7,348          | 7,265          | 7,190          | 7,105          |
| 45011        | Barnwell        | 18-64 YRS        | 12,423         | 12,203         | 12,035         | 11,825         | 11,595         |
| 45011        | Barnwell        | 5-21 YRS         | 4,750          | 4,695          | 4,645          | 4,555          | 4,460          |
| 45011        | Barnwell        | 65-74 YRS        | 2,340          | 2,368          | 2,385          | 2,400          | 2,420          |
| 45011        | Barnwell        | 65 YRS and older | 3,804          | 3,873          | 3,935          | 4,010          | 4,085          |
| 45011        | Barnwell        | 75 YRS and older | 1,464          | 1,505          | 1,550          | 1,610          | 1,665          |
| <b>45011</b> | <b>Barnwell</b> | <b>Total</b>     | <b>21,356</b>  | <b>21,112</b>  | <b>20,870</b>  | <b>20,655</b>  | <b>20,430</b>  |
| 45013        | Beaufort        | 0-17 YRS         | 35,380         | 35,023         | 35,760         | 35,720         | 35,690         |
| 45013        | Beaufort        | 15-44 YRS        | 62,736         | 62,401         | 63,010         | 63,615         | 64,210         |
| 45013        | Beaufort        | 18-64 YRS        | 102,006        | 102,250        | 102,670        | 103,870        | 105,050        |
| 45013        | Beaufort        | 5-21 YRS         | 35,423         | 35,368         | 35,350         | 35,475         | 35,595         |
| 45013        | Beaufort        | 65-74 YRS        | 29,980         | 30,623         | 31,485         | 32,350         | 33,205         |
| 45013        | Beaufort        | 65 YRS and older | 49,106         | 51,442         | 53,885         | 56,325         | 58,755         |
| 45013        | Beaufort        | 75 YRS and older | 19,126         | 20,819         | 22,400         | 23,975         | 25,550         |
| <b>45013</b> | <b>Beaufort</b> | <b>Total</b>     | <b>186,492</b> | <b>188,715</b> | <b>192,315</b> | <b>195,915</b> | <b>199,495</b> |
| 45015        | Berkeley        | 0-17 YRS         | 51,527         | 52,749         | 53,655         | 54,490         | 55,310         |
| 45015        | Berkeley        | 15-44 YRS        | 88,561         | 90,896         | 93,095         | 95,290         | 97,490         |
| 45015        | Berkeley        | 18-64 YRS        | 134,174        | 137,932        | 140,785        | 143,715        | 146,660        |
| 45015        | Berkeley        | 5-21 YRS         | 48,829         | 50,029         | 51,235         | 52,275         | 53,305         |
| 45015        | Berkeley        | 65-74 YRS        | 18,759         | 19,536         | 20,440         | 21,345         | 22,245         |
| 45015        | Berkeley        | 65 YRS and older | 28,769         | 30,410         | 32,295         | 34,190         | 36,080         |
| 45015        | Berkeley        | 75 YRS and older | 10,010         | 10,874         | 11,855         | 12,845         | 13,835         |
| <b>45015</b> | <b>Berkeley</b> | <b>Total</b>     | <b>214,470</b> | <b>221,091</b> | <b>226,735</b> | <b>232,395</b> | <b>238,050</b> |
| 45017        | Calhoun         | 0-17 YRS         | 2,849          | 2,734          | 2,660          | 2,610          | 2,565          |
| 45017        | Calhoun         | 15-44 YRS        | 4,709          | 4,628          | 4,565          | 4,510          | 4,455          |
| 45017        | Calhoun         | 18-64 YRS        | 8,574          | 8,408          | 8,280          | 8,135          | 7,990          |
| 45017        | Calhoun         | 5-21 YRS         | 2,736          | 2,661          | 2,595          | 2,535          | 2,475          |

# MUHA EXHIBIT 02-003

ROA 005498

|              |                     |                  |                |                |                |                |                |
|--------------|---------------------|------------------|----------------|----------------|----------------|----------------|----------------|
| 45017        | Calhoun             | 65-74 YRS        | 2,006          | 2,026          | 2,030          | 2,040          | 2,050          |
| 45017        | Calhoun             | 65 YRS and older | 3,270          | 3,378          | 3,455          | 3,545          | 3,620          |
| 45017        | Calhoun             | 75 YRS and older | 1,264          | 1,352          | 1,425          | 1,505          | 1,570          |
| <b>45017</b> | <b>Calhoun</b>      | <b>Total</b>     | <b>14,693</b>  | <b>14,520</b>  | <b>14,395</b>  | <b>14,290</b>  | <b>14,175</b>  |
| 45019        | Charleston          | 0-17 YRS         | 79,668         | 79,933         | 81,825         | 82,325         | 82,840         |
| 45019        | Charleston          | 15-44 YRS        | 168,294        | 169,346        | 171,635        | 173,925        | 176,225        |
| 45019        | Charleston          | 18-64 YRS        | 258,383        | 259,351        | 260,710        | 263,450        | 266,185        |
| 45019        | Charleston          | 5-21 YRS         | 75,507         | 75,808         | 77,115         | 77,940         | 78,775         |
| 45019        | Charleston          | 65-74 YRS        | 39,757         | 41,337         | 43,015         | 44,700         | 46,375         |
| 45019        | Charleston          | 65 YRS and older | 63,687         | 66,621         | 69,905         | 73,195         | 76,470         |
| 45019        | Charleston          | 75 YRS and older | 23,930         | 25,284         | 26,890         | 28,495         | 30,095         |
| <b>45019</b> | <b>Charleston</b>   | <b>Total</b>     | <b>401,738</b> | <b>405,905</b> | <b>412,440</b> | <b>418,970</b> | <b>425,495</b> |
| 45021        | Cherokee            | 0-17 YRS         | 13,362         | 13,140         | 13,160         | 13,115         | 13,070         |
| 45021        | Cherokee            | 15-44 YRS        | 21,467         | 21,345         | 21,395         | 21,445         | 21,505         |
| 45021        | Cherokee            | 18-64 YRS        | 34,277         | 34,340         | 34,230         | 34,180         | 34,140         |
| 45021        | Cherokee            | 5-21 YRS         | 12,995         | 12,849         | 12,830         | 12,780         | 12,730         |
| 45021        | Cherokee            | 65-74 YRS        | 5,677          | 5,827          | 5,900          | 5,975          | 6,045          |
| 45021        | Cherokee            | 65 YRS and older | 9,286          | 9,598          | 9,825          | 10,060         | 10,285         |
| 45021        | Cherokee            | 75 YRS and older | 3,609          | 3,771          | 3,925          | 4,085          | 4,240          |
| <b>45021</b> | <b>Cherokee</b>     | <b>Total</b>     | <b>56,925</b>  | <b>57,078</b>  | <b>57,215</b>  | <b>57,355</b>  | <b>57,495</b>  |
| 45023        | Chester             | 0-17 YRS         | 7,285          | 7,244          | 7,085          | 7,010          | 6,950          |
| 45023        | Chester             | 15-44 YRS        | 11,199         | 11,117         | 11,125         | 11,140         | 11,155         |
| 45023        | Chester             | 18-64 YRS        | 19,080         | 18,952         | 18,855         | 18,690         | 18,490         |
| 45023        | Chester             | 5-21 YRS         | 6,717          | 6,765          | 6,745          | 6,675          | 6,615          |
| 45023        | Chester             | 65-74 YRS        | 3,565          | 3,593          | 3,645          | 3,700          | 3,745          |
| 45023        | Chester             | 65 YRS and older | 5,920          | 6,055          | 6,180          | 6,310          | 6,425          |
| 45023        | Chester             | 75 YRS and older | 2,355          | 2,462          | 2,535          | 2,610          | 2,680          |
| <b>45023</b> | <b>Chester</b>      | <b>Total</b>     | <b>32,285</b>  | <b>32,251</b>  | <b>32,120</b>  | <b>32,010</b>  | <b>31,865</b>  |
| 45025        | Chesterfield        | 0-17 YRS         | 10,292         | 10,032         | 9,875          | 9,800          | 9,720          |
| 45025        | Chesterfield        | 15-44 YRS        | 16,239         | 16,064         | 15,945         | 15,825         | 15,710         |
| 45025        | Chesterfield        | 18-64 YRS        | 27,468         | 27,327         | 27,145         | 26,890         | 26,640         |
| 45025        | Chesterfield        | 5-21 YRS         | 9,704          | 9,510          | 9,475          | 9,370          | 9,265          |
| 45025        | Chesterfield        | 65-74 YRS        | 5,088          | 5,199          | 5,270          | 5,330          | 5,400          |
| 45025        | Chesterfield        | 65 YRS and older | 8,160          | 8,395          | 8,605          | 8,790          | 9,000          |
| 45025        | Chesterfield        | 75 YRS and older | 3,072          | 3,196          | 3,335          | 3,460          | 3,600          |
| <b>45025</b> | <b>Chesterfield</b> | <b>Total</b>     | <b>45,920</b>  | <b>45,754</b>  | <b>45,625</b>  | <b>45,480</b>  | <b>45,360</b>  |
| 45027        | Clarendon           | 0-17 YRS         | 6,610          | 6,479          | 6,345          | 6,215          | 6,085          |
| 45027        | Clarendon           | 15-44 YRS        | 11,676         | 11,410         | 11,310         | 11,210         | 11,120         |
| 45027        | Clarendon           | 18-64 YRS        | 19,701         | 19,307         | 19,050         | 18,800         | 18,550         |

# MUHA EXHIBIT 02-004

ROA 005499

|              |                   |                  |                |                |                |                |                |
|--------------|-------------------|------------------|----------------|----------------|----------------|----------------|----------------|
| 45027        | Clarendon         | 5-21 YRS         | 6,752          | 6,637          | 6,475          | 6,340          | 6,200          |
| 45027        | Clarendon         | 65-74 YRS        | 4,635          | 4,713          | 4,755          | 4,785          | 4,820          |
| 45027        | Clarendon         | 65 YRS and older | 7,689          | 7,914          | 8,115          | 8,280          | 8,465          |
| 45027        | Clarendon         | 75 YRS and older | 3,054          | 3,201          | 3,360          | 3,495          | 3,645          |
| <b>45027</b> | <b>Clarendon</b>  | <b>Total</b>     | <b>34,000</b>  | <b>33,700</b>  | <b>33,510</b>  | <b>33,295</b>  | <b>33,100</b>  |
| 45029        | Colleton          | 0-17 YRS         | 8,412          | 8,390          | 8,270          | 8,225          | 8,185          |
| 45029        | Colleton          | 15-44 YRS        | 12,856         | 12,810         | 12,820         | 12,825         | 12,835         |
| 45029        | Colleton          | 18-64 YRS        | 21,785         | 21,675         | 21,605         | 21,450         | 21,300         |
| 45029        | Colleton          | 5-21 YRS         | 7,743          | 7,698          | 7,735          | 7,680          | 7,615          |
| 45029        | Colleton          | 65-74 YRS        | 4,543          | 4,667          | 4,730          | 4,800          | 4,870          |
| 45029        | Colleton          | 65 YRS and older | 7,397          | 7,595          | 7,745          | 7,905          | 8,060          |
| 45029        | Colleton          | 75 YRS and older | 2,854          | 2,928          | 3,015          | 3,105          | 3,190          |
| <b>45029</b> | <b>Colleton</b>   | <b>Total</b>     | <b>37,594</b>  | <b>37,660</b>  | <b>37,620</b>  | <b>37,580</b>  | <b>37,545</b>  |
| 45031        | Darlington        | 0-17 YRS         | 15,013         | 14,817         | 14,635         | 14,495         | 14,355         |
| 45031        | Darlington        | 15-44 YRS        | 24,005         | 23,819         | 23,670         | 23,530         | 23,400         |
| 45031        | Darlington        | 18-64 YRS        | 39,658         | 39,307         | 38,900         | 38,455         | 38,010         |
| 45031        | Darlington        | 5-21 YRS         | 14,261         | 14,232         | 14,085         | 13,905         | 13,730         |
| 45031        | Darlington        | 65-74 YRS        | 7,530          | 7,648          | 7,760          | 7,880          | 7,995          |
| 45031        | Darlington        | 65 YRS and older | 12,362         | 12,678         | 12,985         | 13,305         | 13,620         |
| 45031        | Darlington        | 75 YRS and older | 4,832          | 5,030          | 5,225          | 5,425          | 5,625          |
| <b>45031</b> | <b>Darlington</b> | <b>Total</b>     | <b>67,033</b>  | <b>66,802</b>  | <b>66,520</b>  | <b>66,255</b>  | <b>65,985</b>  |
| 45033        | Dillon            | 0-17 YRS         | 7,709          | 7,743          | 7,515          | 7,425          | 7,340          |
| 45033        | Dillon            | 15-44 YRS        | 11,222         | 11,305         | 11,250         | 11,185         | 11,120         |
| 45033        | Dillon            | 18-64 YRS        | 17,833         | 17,756         | 17,705         | 17,515         | 17,320         |
| 45033        | Dillon            | 5-21 YRS         | 7,056          | 7,118          | 7,070          | 6,970          | 6,870          |
| 45033        | Dillon            | 65-74 YRS        | 3,019          | 3,065          | 3,120          | 3,165          | 3,220          |
| 45033        | Dillon            | 65 YRS and older | 5,009          | 5,100          | 5,205          | 5,305          | 5,415          |
| 45033        | Dillon            | 75 YRS and older | 1,990          | 2,035          | 2,085          | 2,140          | 2,195          |
| <b>45033</b> | <b>Dillon</b>     | <b>Total</b>     | <b>30,551</b>  | <b>30,599</b>  | <b>30,425</b>  | <b>30,245</b>  | <b>30,075</b>  |
| 45035        | Dorchester        | 0-17 YRS         | 39,364         | 39,214         | 38,840         | 39,080         | 39,320         |
| 45035        | Dorchester        | 15-44 YRS        | 63,237         | 63,628         | 64,905         | 66,165         | 67,435         |
| 45035        | Dorchester        | 18-64 YRS        | 98,010         | 98,799         | 101,000        | 102,575        | 104,155        |
| 45035        | Dorchester        | 5-21 YRS         | 36,385         | 36,401         | 37,040         | 37,355         | 37,680         |
| 45035        | Dorchester        | 65-74 YRS        | 13,860         | 14,453         | 15,075         | 15,695         | 16,320         |
| 45035        | Dorchester        | 65 YRS and older | 21,507         | 22,634         | 23,870         | 25,125         | 26,360         |
| 45035        | Dorchester        | 75 YRS and older | 7,647          | 8,181          | 8,795          | 9,430          | 10,040         |
| <b>45035</b> | <b>Dorchester</b> | <b>Total</b>     | <b>158,881</b> | <b>160,647</b> | <b>163,710</b> | <b>166,780</b> | <b>169,835</b> |
| 45037        | Edgefield         | 0-17 YRS         | 4,932          | 4,894          | 4,795          | 4,750          | 4,710          |
| 45037        | Edgefield         | 15-44 YRS        | 10,119         | 10,337         | 10,370         | 10,415         | 10,455         |

# MUHA EXHIBIT 02-005

ROA 005500

|              |                   |                  |                |                |                |                |                |
|--------------|-------------------|------------------|----------------|----------------|----------------|----------------|----------------|
| 45037        | Edgefield         | 18-64 YRS        | 16,903         | 17,084         | 17,065         | 17,020         | 16,960         |
| 45037        | Edgefield         | 5-21 YRS         | 5,041          | 5,026          | 4,995          | 4,935          | 4,885          |
| 45037        | Edgefield         | 65-74 YRS        | 2,999          | 3,075          | 3,135          | 3,190          | 3,255          |
| 45037        | Edgefield         | 65 YRS and older | 4,937          | 5,074          | 5,230          | 5,375          | 5,535          |
| 45037        | Edgefield         | 75 YRS and older | 1,938          | 1,999          | 2,095          | 2,185          | 2,280          |
| <b>45037</b> | <b>Edgefield</b>  | <b>Total</b>     | <b>26,772</b>  | <b>27,052</b>  | <b>27,090</b>  | <b>27,145</b>  | <b>27,205</b>  |
| 45039        | Fairfield         | 0-17 YRS         | 4,390          | 4,299          | 4,165          | 4,075          | 3,985          |
| 45039        | Fairfield         | 15-44 YRS        | 7,364          | 7,237          | 7,150          | 7,055          | 6,975          |
| 45039        | Fairfield         | 18-64 YRS        | 13,568         | 13,233         | 13,030         | 12,765         | 12,525         |
| 45039        | Fairfield         | 5-21 YRS         | 4,283          | 4,196          | 4,115          | 4,010          | 3,910          |
| 45039        | Fairfield         | 65-74 YRS        | 2,916          | 3,063          | 3,140          | 3,220          | 3,290          |
| 45039        | Fairfield         | 65 YRS and older | 4,654          | 4,870          | 5,020          | 5,170          | 5,310          |
| 45039        | Fairfield         | 75 YRS and older | 1,738          | 1,807          | 1,880          | 1,950          | 2,020          |
| <b>45039</b> | <b>Fairfield</b>  | <b>Total</b>     | <b>22,612</b>  | <b>22,402</b>  | <b>22,215</b>  | <b>22,010</b>  | <b>21,820</b>  |
| 45041        | Florence          | 0-17 YRS         | 33,088         | 32,590         | 32,080         | 31,830         | 31,565         |
| 45041        | Florence          | 15-44 YRS        | 52,360         | 51,958         | 51,800         | 51,645         | 51,475         |
| 45041        | Florence          | 18-64 YRS        | 82,646         | 82,098         | 81,815         | 81,285         | 80,735         |
| 45041        | Florence          | 5-21 YRS         | 31,435         | 31,279         | 30,880         | 30,675         | 30,450         |
| 45041        | Florence          | 65-74 YRS        | 14,008         | 14,322         | 14,515         | 14,700         | 14,885         |
| 45041        | Florence          | 65 YRS and older | 22,779         | 23,471         | 24,075         | 24,655         | 25,235         |
| 45041        | Florence          | 75 YRS and older | 8,771          | 9,149          | 9,560          | 9,955          | 10,350         |
| <b>45041</b> | <b>Florence</b>   | <b>Total</b>     | <b>138,513</b> | <b>138,159</b> | <b>137,970</b> | <b>137,770</b> | <b>137,535</b> |
| 45043        | Georgetown        | 0-17 YRS         | 11,646         | 11,438         | 11,170         | 11,035         | 10,900         |
| 45043        | Georgetown        | 15-44 YRS        | 18,302         | 18,257         | 18,180         | 18,095         | 18,015         |
| 45043        | Georgetown        | 18-64 YRS        | 33,531         | 33,521         | 33,435         | 33,215         | 33,005         |
| 45043        | Georgetown        | 5-21 YRS         | 11,119         | 11,046         | 10,955         | 10,800         | 10,645         |
| 45043        | Georgetown        | 65-74 YRS        | 10,466         | 10,682         | 10,900         | 11,120         | 11,335         |
| 45043        | Georgetown        | 65 YRS and older | 16,664         | 17,290         | 17,895         | 18,510         | 19,115         |
| 45043        | Georgetown        | 75 YRS and older | 6,198          | 6,608          | 6,995          | 7,390          | 7,780          |
| <b>45043</b> | <b>Georgetown</b> | <b>Total</b>     | <b>61,841</b>  | <b>62,249</b>  | <b>62,500</b>  | <b>62,760</b>  | <b>63,020</b>  |
| 45045        | Greenville        | 0-17 YRS         | 117,549        | 118,364        | 119,085        | 120,060        | 121,020        |
| 45045        | Greenville        | 15-44 YRS        | 199,237        | 202,149        | 205,770        | 209,415        | 213,030        |
| 45045        | Greenville        | 18-64 YRS        | 311,198        | 314,713        | 318,855        | 322,750        | 326,630        |
| 45045        | Greenville        | 5-21 YRS         | 110,652        | 111,766        | 113,090        | 114,290        | 115,470        |
| 45045        | Greenville        | 65-74 YRS        | 47,004         | 48,584         | 50,280         | 51,980         | 53,670         |
| 45045        | Greenville        | 65 YRS and older | 77,805         | 81,136         | 84,615         | 88,095         | 91,580         |
| 45045        | Greenville        | 75 YRS and older | 30,801         | 32,552         | 34,335         | 36,115         | 37,910         |
| <b>45045</b> | <b>Greenville</b> | <b>Total</b>     | <b>506,552</b> | <b>514,213</b> | <b>522,555</b> | <b>530,905</b> | <b>539,230</b> |
| 45047        | Greenwood         | 0-17 YRS         | 16,081         | 15,969         | 16,180         | 16,125         | 16,075         |

# MUHA EXHIBIT 02-006

ROA 005501

|              |                  |                  |                |                |                |                |                |
|--------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|
| 45047        | Greenwood        | 15-44 YRS        | 26,333         | 26,232         | 26,255         | 26,280         | 26,305         |
| 45047        | Greenwood        | 18-64 YRS        | 41,748         | 41,677         | 41,260         | 41,100         | 40,935         |
| 45047        | Greenwood        | 5-21 YRS         | 15,707         | 15,742         | 15,685         | 15,645         | 15,615         |
| 45047        | Greenwood        | 65-74 YRS        | 7,133          | 7,321          | 7,455          | 7,585          | 7,720          |
| 45047        | Greenwood        | 65 YRS and older | 12,758         | 13,095         | 13,420         | 13,745         | 14,065         |
| 45047        | Greenwood        | 75 YRS and older | 5,625          | 5,774          | 5,965          | 6,160          | 6,345          |
| <b>45047</b> | <b>Greenwood</b> | <b>Total</b>     | <b>70,587</b>  | <b>70,741</b>  | <b>70,860</b>  | <b>70,970</b>  | <b>71,075</b>  |
|              |                  |                  |                |                |                |                |                |
| 45049        | Hampton          | 0-17 YRS         | 4,205          | 4,116          | 3,985          | 3,925          | 3,855          |
| 45049        | Hampton          | 15-44 YRS        | 7,409          | 7,301          | 7,200          | 7,105          | 7,005          |
| 45049        | Hampton          | 18-64 YRS        | 11,787         | 11,672         | 11,515         | 11,295         | 11,080         |
| 45049        | Hampton          | 5-21 YRS         | 4,006          | 3,941          | 3,865          | 3,790          | 3,705          |
| 45049        | Hampton          | 65-74 YRS        | 2,113          | 2,123          | 2,135          | 2,145          | 2,160          |
| 45049        | Hampton          | 65 YRS and older | 3,509          | 3,563          | 3,625          | 3,680          | 3,745          |
| 45049        | Hampton          | 75 YRS and older | 1,396          | 1,440          | 1,490          | 1,535          | 1,585          |
| <b>45049</b> | <b>Hampton</b>   | <b>Total</b>     | <b>19,501</b>  | <b>19,351</b>  | <b>19,125</b>  | <b>18,900</b>  | <b>18,680</b>  |
|              |                  |                  |                |                |                |                |                |
| 45051        | Horry            | 0-17 YRS         | 61,225         | 61,715         | 62,905         | 63,690         | 64,460         |
| 45051        | Horry            | 15-44 YRS        | 112,070        | 113,942        | 116,395        | 118,855        | 121,315        |
| 45051        | Horry            | 18-64 YRS        | 194,863        | 200,001        | 204,775        | 209,960        | 215,140        |
| 45051        | Horry            | 5-21 YRS         | 58,810         | 59,767         | 61,645         | 62,780         | 63,920         |
| 45051        | Horry            | 65-74 YRS        | 50,694         | 54,165         | 58,300         | 62,440         | 66,580         |
| 45051        | Horry            | 65 YRS and older | 76,563         | 82,431         | 89,425         | 96,420         | 103,420        |
| 45051        | Horry            | 75 YRS and older | 25,869         | 28,266         | 31,125         | 33,980         | 36,840         |
| <b>45051</b> | <b>Horry</b>     | <b>Total</b>     | <b>332,651</b> | <b>344,147</b> | <b>357,105</b> | <b>370,070</b> | <b>383,020</b> |
|              |                  |                  |                |                |                |                |                |
| 45053        | Jasper           | 0-17 YRS         | 5,843          | 5,889          | 5,835          | 5,820          | 5,795          |
| 45053        | Jasper           | 15-44 YRS        | 10,510         | 10,516         | 10,530         | 10,550         | 10,575         |
| 45053        | Jasper           | 18-64 YRS        | 17,298         | 17,472         | 17,590         | 17,670         | 17,750         |
| 45053        | Jasper           | 5-21 YRS         | 5,419          | 5,439          | 5,540          | 5,520          | 5,500          |
| 45053        | Jasper           | 65-74 YRS        | 3,501          | 3,703          | 4,010          | 4,325          | 4,630          |
| 45053        | Jasper           | 65 YRS and older | 5,257          | 5,610          | 6,155          | 6,695          | 7,230          |
| 45053        | Jasper           | 75 YRS and older | 1,756          | 1,907          | 2,145          | 2,370          | 2,600          |
| <b>45053</b> | <b>Jasper</b>    | <b>Total</b>     | <b>28,398</b>  | <b>28,971</b>  | <b>29,580</b>  | <b>30,185</b>  | <b>30,775</b>  |
|              |                  |                  |                |                |                |                |                |
| 45055        | Kershaw          | 0-17 YRS         | 15,253         | 15,167         | 14,980         | 15,020         | 15,055         |
| 45055        | Kershaw          | 15-44 YRS        | 22,841         | 23,018         | 23,290         | 23,570         | 23,845         |
| 45055        | Kershaw          | 18-64 YRS        | 38,134         | 38,397         | 38,755         | 38,890         | 39,010         |
| 45055        | Kershaw          | 5-21 YRS         | 14,071         | 14,026         | 14,115         | 14,165         | 14,215         |
| 45055        | Kershaw          | 65-74 YRS        | 7,151          | 7,326          | 7,495          | 7,670          | 7,840          |
| 45055        | Kershaw          | 65 YRS and older | 11,705         | 12,028         | 12,400         | 12,775         | 13,150         |
| 45055        | Kershaw          | 75 YRS and older | 4,554          | 4,702          | 4,905          | 5,105          | 5,310          |
| <b>45055</b> | <b>Kershaw</b>   | <b>Total</b>     | <b>65,092</b>  | <b>65,592</b>  | <b>66,135</b>  | <b>66,685</b>  | <b>67,215</b>  |
|              |                  |                  |                |                |                |                |                |

# MUHA EXHIBIT 02-007

ROA 005502

|              |                  |                  |                |                |                |                |                |
|--------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|
| 45057        | Lancaster        | 0-17 YRS         | 20,325         | 20,786         | 21,170         | 21,775         | 22,385         |
| 45057        | Lancaster        | 15-44 YRS        | 32,713         | 33,387         | 34,415         | 35,435         | 36,475         |
| 45057        | Lancaster        | 18-64 YRS        | 53,167         | 54,535         | 56,255         | 57,755         | 59,275         |
| 45057        | Lancaster        | 5-21 YRS         | 17,868         | 18,403         | 19,170         | 19,815         | 20,460         |
| 45057        | Lancaster        | 65-74 YRS        | 11,910         | 12,184         | 12,600         | 13,015         | 13,425         |
| 45057        | Lancaster        | 65 YRS and older | 19,132         | 20,059         | 21,250         | 22,445         | 23,640         |
| 45057        | Lancaster        | 75 YRS and older | 7,222          | 7,875          | 8,650          | 9,430          | 10,215         |
| <b>45057</b> | <b>Lancaster</b> | <b>Total</b>     | <b>92,624</b>  | <b>95,380</b>  | <b>98,675</b>  | <b>101,975</b> | <b>105,300</b> |
|              |                  |                  |                |                |                |                |                |
| 45059        | Laurens          | 0-17 YRS         | 14,718         | 14,592         | 14,615         | 14,555         | 14,500         |
| 45059        | Laurens          | 15-44 YRS        | 24,193         | 24,023         | 24,085         | 24,140         | 24,200         |
| 45059        | Laurens          | 18-64 YRS        | 40,168         | 39,992         | 39,745         | 39,570         | 39,395         |
| 45059        | Laurens          | 5-21 YRS         | 14,466         | 14,356         | 14,160         | 14,095         | 14,025         |
| 45059        | Laurens          | 65-74 YRS        | 7,092          | 7,255          | 7,385          | 7,505          | 7,630          |
| 45059        | Laurens          | 65 YRS and older | 12,029         | 12,410         | 12,710         | 13,010         | 13,305         |
| 45059        | Laurens          | 75 YRS and older | 4,937          | 5,155          | 5,325          | 5,505          | 5,675          |
| <b>45059</b> | <b>Laurens</b>   | <b>Total</b>     | <b>66,915</b>  | <b>66,994</b>  | <b>67,070</b>  | <b>67,135</b>  | <b>67,200</b>  |
|              |                  |                  |                |                |                |                |                |
| 45061        | Lee              | 0-17 YRS         | 3,573          | 3,453          | 3,360          | 3,285          | 3,215          |
| 45061        | Lee              | 15-44 YRS        | 6,579          | 6,592          | 6,500          | 6,420          | 6,335          |
| 45061        | Lee              | 18-64 YRS        | 10,588         | 10,542         | 10,325         | 10,110         | 9,880          |
| 45061        | Lee              | 5-21 YRS         | 3,503          | 3,464          | 3,375          | 3,300          | 3,215          |
| 45061        | Lee              | 65-74 YRS        | 1,916          | 1,960          | 1,985          | 2,010          | 2,025          |
| 45061        | Lee              | 65 YRS and older | 3,106          | 3,147          | 3,200          | 3,245          | 3,290          |
| 45061        | Lee              | 75 YRS and older | 1,190          | 1,187          | 1,215          | 1,235          | 1,265          |
| <b>45061</b> | <b>Lee</b>       | <b>Total</b>     | <b>17,267</b>  | <b>17,142</b>  | <b>16,885</b>  | <b>16,640</b>  | <b>16,385</b>  |
|              |                  |                  |                |                |                |                |                |
| 45063        | Lexington        | 0-17 YRS         | 67,939         | 68,294         | 67,670         | 68,055         | 68,460         |
| 45063        | Lexington        | 15-44 YRS        | 110,961        | 112,350        | 114,110        | 115,875        | 117,640        |
| 45063        | Lexington        | 18-64 YRS        | 178,108        | 180,157        | 183,030        | 184,890        | 186,745        |
| 45063        | Lexington        | 5-21 YRS         | 62,667         | 63,498         | 64,555         | 65,145         | 65,740         |
| 45063        | Lexington        | 65-74 YRS        | 27,576         | 28,410         | 29,380         | 30,360         | 31,340         |
| 45063        | Lexington        | 65 YRS and older | 44,771         | 46,581         | 48,620         | 50,655         | 52,690         |
| 45063        | Lexington        | 75 YRS and older | 17,195         | 18,171         | 19,240         | 20,295         | 21,350         |
| <b>45063</b> | <b>Lexington</b> | <b>Total</b>     | <b>290,818</b> | <b>295,032</b> | <b>299,320</b> | <b>303,600</b> | <b>307,895</b> |
|              |                  |                  |                |                |                |                |                |
| 45065        | McCormick        | 0-17 YRS         | 1,154          | 1,116          | 1,055          | 1,025          | 985            |
| 45065        | McCormick        | 15-44 YRS        | 2,588          | 2,499          | 2,435          | 2,370          | 2,300          |
| 45065        | McCormick        | 18-64 YRS        | 5,215          | 5,007          | 4,890          | 4,735          | 4,575          |
| 45065        | McCormick        | 5-21 YRS         | 1,081          | 1,063          | 1,065          | 1,030          | 985            |
| 45065        | McCormick        | 65-74 YRS        | 1,984          | 1,985          | 1,980          | 1,975          | 1,965          |
| 45065        | McCormick        | 65 YRS and older | 3,198          | 3,287          | 3,355          | 3,420          | 3,485          |
| 45065        | McCormick        | 75 YRS and older | 1,214          | 1,302          | 1,375          | 1,445          | 1,520          |
| <b>45065</b> | <b>McCormick</b> | <b>Total</b>     | <b>9,567</b>   | <b>9,410</b>   | <b>9,300</b>   | <b>9,180</b>   | <b>9,045</b>   |

# MUHA EXHIBIT 02-008

ROA 005503

|              |                 |                  |               |               |               |               |               |
|--------------|-----------------|------------------|---------------|---------------|---------------|---------------|---------------|
|              |                 |                  |               |               |               |               |               |
| 45067        | Marion          | 0-17 YRS         | 7,264         | 7,082         | 6,885         | 6,800         | 6,695         |
| 45067        | Marion          | 15-44 YRS        | 10,861        | 10,776        | 10,680        | 10,600        | 10,500        |
| 45067        | Marion          | 18-64 YRS        | 17,995        | 17,795        | 17,615        | 17,365        | 17,090        |
| 45067        | Marion          | 5-21 YRS         | 6,705         | 6,574         | 6,530         | 6,440         | 6,345         |
| 45067        | Marion          | 65-74 YRS        | 3,771         | 3,837         | 3,865         | 3,895         | 3,925         |
| 45067        | Marion          | 65 YRS and older | 6,033         | 6,162         | 6,285         | 6,410         | 6,530         |
| 45067        | Marion          | 75 YRS and older | 2,262         | 2,325         | 2,420         | 2,515         | 2,605         |
| <b>45067</b> | <b>Marion</b>   | <b>Total</b>     | <b>31,292</b> | <b>31,039</b> | <b>30,785</b> | <b>30,575</b> | <b>30,315</b> |
|              |                 |                  |               |               |               |               |               |
| 45069        | Marlboro        | 0-17 YRS         | 5,393         | 5,257         | 5,180         | 5,105         | 5,045         |
| 45069        | Marlboro        | 15-44 YRS        | 10,435        | 10,162        | 9,975         | 9,785         | 9,590         |
| 45069        | Marlboro        | 18-64 YRS        | 16,648        | 16,380        | 16,060        | 15,725        | 15,380        |
| 45069        | Marlboro        | 5-21 YRS         | 5,075         | 4,992         | 4,980         | 4,900         | 4,825         |
| 45069        | Marlboro        | 65-74 YRS        | 2,928         | 2,980         | 2,985         | 2,985         | 2,985         |
| 45069        | Marlboro        | 65 YRS and older | 4,661         | 4,761         | 4,835         | 4,900         | 4,965         |
| 45069        | Marlboro        | 75 YRS and older | 1,733         | 1,781         | 1,850         | 1,915         | 1,980         |
| <b>45069</b> | <b>Marlboro</b> | <b>Total</b>     | <b>26,702</b> | <b>26,398</b> | <b>26,075</b> | <b>25,730</b> | <b>25,390</b> |
|              |                 |                  |               |               |               |               |               |
| 45071        | Newberry        | 0-17 YRS         | 8,485         | 8,404         | 8,615         | 8,635         | 8,675         |
| 45071        | Newberry        | 15-44 YRS        | 13,697        | 13,597        | 13,640        | 13,675        | 13,720        |
| 45071        | Newberry        | 18-64 YRS        | 22,598        | 22,564        | 22,320        | 22,250        | 22,165        |
| 45071        | Newberry        | 5-21 YRS         | 8,429         | 8,443         | 8,360         | 8,385         | 8,415         |
| 45071        | Newberry        | 65-74 YRS        | 4,388         | 4,483         | 4,570         | 4,650         | 4,735         |
| 45071        | Newberry        | 65 YRS and older | 7,345         | 7,552         | 7,755         | 7,955         | 8,160         |
| 45071        | Newberry        | 75 YRS and older | 2,957         | 3,069         | 3,185         | 3,305         | 3,425         |
| <b>45071</b> | <b>Newberry</b> | <b>Total</b>     | <b>38,428</b> | <b>38,520</b> | <b>38,690</b> | <b>38,840</b> | <b>39,000</b> |
|              |                 |                  |               |               |               |               |               |
| 45073        | Oconee          | 0-17 YRS         | 15,594        | 15,615        | 15,415        | 15,415        | 15,435        |
| 45073        | Oconee          | 15-44 YRS        | 25,240        | 25,369        | 25,525        | 25,700        | 25,865        |
| 45073        | Oconee          | 18-64 YRS        | 44,195        | 44,563        | 44,815        | 44,880        | 44,930        |
| 45073        | Oconee          | 5-21 YRS         | 14,552        | 14,750        | 14,890        | 14,910        | 14,940        |
| 45073        | Oconee          | 65-74 YRS        | 10,742        | 10,952        | 11,205        | 11,455        | 11,710        |
| 45073        | Oconee          | 65 YRS and older | 17,648        | 18,196        | 18,740        | 19,295        | 19,845        |
| 45073        | Oconee          | 75 YRS and older | 6,906         | 7,244         | 7,535         | 7,840         | 8,135         |
| <b>45073</b> | <b>Oconee</b>   | <b>Total</b>     | <b>77,437</b> | <b>78,374</b> | <b>78,970</b> | <b>79,590</b> | <b>80,210</b> |
|              |                 |                  |               |               |               |               |               |
| 45075        | Orangeburg      | 0-17 YRS         | 19,450        | 19,044        | 19,165        | 18,895        | 18,620        |
| 45075        | Orangeburg      | 15-44 YRS        | 31,677        | 31,266        | 30,870        | 30,480        | 30,085        |
| 45075        | Orangeburg      | 18-64 YRS        | 51,458        | 50,776        | 49,500        | 48,625        | 47,750        |
| 45075        | Orangeburg      | 5-21 YRS         | 19,894        | 19,652        | 19,085        | 18,790        | 18,500        |
| 45075        | Orangeburg      | 65-74 YRS        | 10,021        | 10,127        | 10,190        | 10,250        | 10,305        |
| 45075        | Orangeburg      | 65 YRS and older | 16,765        | 17,114        | 17,425        | 17,730        | 18,020        |
| 45075        | Orangeburg      | 75 YRS and older | 6,744         | 6,987         | 7,235         | 7,480         | 7,715         |

# MUHA EXHIBIT 02-009

ROA 005504

|              |                    |                  |                |                |                |                |                |
|--------------|--------------------|------------------|----------------|----------------|----------------|----------------|----------------|
| <b>45075</b> | <b>Orangeburg</b>  | <b>Total</b>     | <b>87,673</b>  | <b>86,934</b>  | <b>86,090</b>  | <b>85,250</b>  | <b>84,390</b>  |
|              |                    |                  |                |                |                |                |                |
| 45077        | Pickens            | 0-17 YRS         | 23,610         | 23,712         | 26,320         | 26,535         | 26,735         |
| 45077        | Pickens            | 15-44 YRS        | 53,907         | 54,320         | 54,450         | 54,575         | 54,710         |
| 45077        | Pickens            | 18-64 YRS        | 80,011         | 80,565         | 78,170         | 78,190         | 78,220         |
| 45077        | Pickens            | 5-21 YRS         | 31,255         | 31,323         | 30,195         | 30,290         | 30,380         |
| 45077        | Pickens            | 65-74 YRS        | 11,707         | 11,937         | 12,190         | 12,435         | 12,680         |
| 45077        | Pickens            | 65 YRS and older | 20,066         | 20,660         | 21,265         | 21,865         | 22,455         |
| 45077        | Pickens            | 75 YRS and older | 8,359          | 8,723          | 9,075          | 9,430          | 9,775          |
| <b>45077</b> | <b>Pickens</b>     | <b>Total</b>     | <b>123,687</b> | <b>124,937</b> | <b>125,755</b> | <b>126,590</b> | <b>127,410</b> |
|              |                    |                  |                |                |                |                |                |
| 45079        | Richland           | 0-17 YRS         | 88,294         | 88,630         | 94,145         | 94,465         | 94,770         |
| 45079        | Richland           | 15-44 YRS        | 192,332        | 192,913        | 194,190        | 195,470        | 196,735        |
| 45079        | Richland           | 18-64 YRS        | 272,502        | 273,156        | 268,750        | 269,535        | 270,310        |
| 45079        | Richland           | 5-21 YRS         | 103,212        | 103,628        | 102,065        | 102,310        | 102,550        |
| 45079        | Richland           | 65-74 YRS        | 31,838         | 33,032         | 34,005         | 34,980         | 35,960         |
| 45079        | Richland           | 65 YRS and older | 50,675         | 52,790         | 54,815         | 56,845         | 58,875         |
| 45079        | Richland           | 75 YRS and older | 18,837         | 19,758         | 20,810         | 21,865         | 22,915         |
| <b>45079</b> | <b>Richland</b>    | <b>Total</b>     | <b>411,471</b> | <b>414,576</b> | <b>417,710</b> | <b>420,845</b> | <b>423,955</b> |
|              |                    |                  |                |                |                |                |                |
| 45081        | Saluda             | 0-17 YRS         | 4,448          | 4,450          | 4,410          | 4,390          | 4,355          |
| 45081        | Saluda             | 15-44 YRS        | 7,119          | 7,114          | 7,105          | 7,110          | 7,095          |
| 45081        | Saluda             | 18-64 YRS        | 12,045         | 12,034         | 12,025         | 12,005         | 11,955         |
| 45081        | Saluda             | 5-21 YRS         | 4,048          | 4,053          | 4,080          | 4,070          | 4,045          |
| 45081        | Saluda             | 65-74 YRS        | 2,240          | 2,257          | 2,300          | 2,340          | 2,380          |
| 45081        | Saluda             | 65 YRS and older | 3,931          | 4,060          | 4,165          | 4,285          | 4,385          |
| 45081        | Saluda             | 75 YRS and older | 1,691          | 1,803          | 1,865          | 1,945          | 2,005          |
| <b>45081</b> | <b>Saluda</b>      | <b>Total</b>     | <b>20,424</b>  | <b>20,544</b>  | <b>20,600</b>  | <b>20,680</b>  | <b>20,695</b>  |
|              |                    |                  |                |                |                |                |                |
| 45083        | Spartanburg        | 0-17 YRS         | 71,102         | 72,501         | 73,145         | 73,780         | 74,415         |
| 45083        | Spartanburg        | 15-44 YRS        | 118,471        | 121,733        | 124,190        | 126,650        | 129,105        |
| 45083        | Spartanburg        | 18-64 YRS        | 186,418        | 190,575        | 193,150        | 195,720        | 198,300        |
| 45083        | Spartanburg        | 5-21 YRS         | 68,601         | 69,852         | 70,630         | 71,275         | 71,925         |
| 45083        | Spartanburg        | 65-74 YRS        | 29,537         | 30,284         | 31,005         | 31,735         | 32,460         |
| 45083        | Spartanburg        | 65 YRS and older | 49,112         | 50,812         | 52,425         | 54,050         | 55,665         |
| 45083        | Spartanburg        | 75 YRS and older | 19,575         | 20,528         | 21,420         | 22,315         | 23,205         |
| <b>45083</b> | <b>Spartanburg</b> | <b>Total</b>     | <b>306,632</b> | <b>313,888</b> | <b>318,720</b> | <b>323,550</b> | <b>328,380</b> |
|              |                    |                  |                |                |                |                |                |
| 45085        | Sumter             | 0-17 YRS         | 25,713         | 25,354         | 25,105         | 24,885         | 24,655         |
| 45085        | Sumter             | 15-44 YRS        | 41,670         | 41,697         | 41,535         | 41,385         | 41,225         |
| 45085        | Sumter             | 18-64 YRS        | 63,861         | 63,642         | 63,040         | 62,405         | 61,775         |
| 45085        | Sumter             | 5-21 YRS         | 24,228         | 24,044         | 23,875         | 23,640         | 23,390         |
| 45085        | Sumter             | 65-74 YRS        | 9,854          | 10,132         | 10,370         | 10,600         | 10,835         |
| 45085        | Sumter             | 65 YRS and older | 16,940         | 17,516         | 17,990         | 18,450         | 18,915         |

# MUHA EXHIBIT 02-010

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|              |                     |                  |                |                |                |                |                |
|--------------|---------------------|------------------|----------------|----------------|----------------|----------------|----------------|
| 45085        | Sumter              | 75 YRS and older | 7,086          | 7,384          | 7,620          | 7,850          | 8,080          |
| <b>45085</b> | <b>Sumter</b>       | <b>Total</b>     | <b>106,514</b> | <b>106,512</b> | <b>106,135</b> | <b>105,740</b> | <b>105,345</b> |
| 45087        | Union               | 0-17 YRS         | 5,878          | 5,816          | 5,690          | 5,655          | 5,620          |
| 45087        | Union               | 15-44 YRS        | 9,245          | 9,195          | 9,115          | 9,060          | 8,985          |
| 45087        | Union               | 18-64 YRS        | 16,173         | 16,040         | 15,910         | 15,700         | 15,485         |
| 45087        | Union               | 5-21 YRS         | 5,430          | 5,331          | 5,335          | 5,275          | 5,230          |
| 45087        | Union               | 65-74 YRS        | 3,275          | 3,315          | 3,365          | 3,405          | 3,455          |
| 45087        | Union               | 65 YRS and older | 5,447          | 5,554          | 5,665          | 5,760          | 5,860          |
| 45087        | Union               | 75 YRS and older | 2,172          | 2,239          | 2,300          | 2,355          | 2,405          |
| <b>45087</b> | <b>Union</b>        | <b>Total</b>     | <b>27,498</b>  | <b>27,410</b>  | <b>27,265</b>  | <b>27,115</b>  | <b>26,965</b>  |
| 45089        | Williamsburg        | 0-17 YRS         | 6,589          | 6,340          | 6,115          | 5,960          | 5,800          |
| 45089        | Williamsburg        | 15-44 YRS        | 10,997         | 10,655         | 10,430         | 10,195         | 9,975          |
| 45089        | Williamsburg        | 18-64 YRS        | 18,283         | 17,825         | 17,440         | 16,975         | 16,535         |
| 45089        | Williamsburg        | 5-21 YRS         | 6,323          | 6,076          | 5,970          | 5,795          | 5,610          |
| 45089        | Williamsburg        | 65-74 YRS        | 3,917          | 3,905          | 3,935          | 3,975          | 4,010          |
| 45089        | Williamsburg        | 65 YRS and older | 6,313          | 6,441          | 6,560          | 6,690          | 6,820          |
| 45089        | Williamsburg        | 75 YRS and older | 2,396          | 2,536          | 2,625          | 2,715          | 2,810          |
| <b>45089</b> | <b>Williamsburg</b> | <b>Total</b>     | <b>31,185</b>  | <b>30,606</b>  | <b>30,115</b>  | <b>29,625</b>  | <b>29,155</b>  |
| 45091        | York                | 0-17 YRS         | 64,969         | 66,495         | 67,420         | 68,705         | 69,995         |
| 45091        | York                | 15-44 YRS        | 103,277        | 106,226        | 109,335        | 112,440        | 115,545        |
| 45091        | York                | 18-64 YRS        | 163,997        | 168,387        | 173,075        | 177,385        | 181,690        |
| 45091        | York                | 5-21 YRS         | 61,652         | 63,189         | 64,545         | 65,995         | 67,440         |
| 45091        | York                | 65-74 YRS        | 23,417         | 24,465         | 25,595         | 26,740         | 27,870         |
| 45091        | York                | 65 YRS and older | 37,180         | 39,236         | 41,365         | 43,500         | 45,635         |
| 45091        | York                | 75 YRS and older | 13,763         | 14,771         | 15,770         | 16,760         | 17,765         |
| <b>45091</b> | <b>York</b>         | <b>Total</b>     | <b>266,146</b> | <b>274,118</b> | <b>281,860</b> | <b>289,590</b> | <b>297,320</b> |

*Sources: Population estimates for 2017 and 2018 were calculated using the Vintage 2018 Estimates Program of the U.S. Census Bureau in collaboration with National Center for Health Statistics. Projections of the postcensal estimates will vary slightly from the 2017 and 2018 data in the*

*Population Projections for 2019 through 2024 were calculated by the S.C. Revenue and Finance Department. The data used in the population projections calculations was supplied by the SC DHEC Division of Health Statistics.*

*Note: The projections included in this report were calculated using the cohort-component method, which is distributed by age and sex at a beginning date, applies assumed survival rates, age-specific fertility rates, and migration projections.*

*These projections offer only one possible scenario of future population change using the best available data. They depend on the extent to which future events unfold in a manner that reflects previous trends. Unprecedented events that may significantly alter an area's demographic composition include natural disasters, economic downturns, school closings, changes in technology, public health crises, environmental events, changes in birth and death rates, or domestic and international migration. This means that population projections are estimates of what may happen years into the future.*

Revised August 2019

# MUHA EXHIBIT 02-012

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| Projection 2022<br>Total | Projection 2023<br>Total | Projection 2024<br>Total | Estimates 2017<br>Female | Estimates 2018<br>Female | Projection 2019<br>Female | Projection 2020<br>Female | Projection 2021<br>Female |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|
| 1,130,115                | 1,134,515                | 1,139,450                | 542,606                  | 544,087                  | 547,860                   | 549,180                   | 550,495                   |
| 2,027,450                | 2,014,615                | 2,067,980                | 966,099                  | 974,611                  | 985,795                   | 997,095                   | 1,008,395                 |
| 3,160,555                | 3,182,700                | 3,207,050                | 1,563,601                | 1,577,010                | 1,586,515                 | 1,598,540                 | 1,610,505                 |
| 1,105,545                | 1,180,330                | 1,116,115                | 526,835                  | 530,589                  | 533,965                   | 536,840                   | 539,780                   |
| 621,365                  | 639,230                  | 654,495                  | 285,757                  | 295,984                  | 306,420                   | 316,850                   | 327,270                   |
| 1,051,780                | 1,089,725                | 1,128,085                | 479,553                  | 499,704                  | 520,790                   | 541,845                   | 562,875                   |
| 430,415                  | 450,495                  | 473,590                  | 193,796                  | 203,720                  | 214,370                   | 224,995                   | 235,605                   |
| <b>5,342,450</b>         | <b>5,406,940</b>         | <b>5,474,585</b>         | <b>2,585,760</b>         | <b>2,620,801</b>         | <b>2,655,165</b>          | <b>2,689,565</b>          | <b>2,723,875</b>          |
|                          |                          |                          |                          |                          |                           |                           |                           |
| 4,680                    | 4,595                    | 4,525                    | 2,460                    | 2,427                    | 2,420                     | 2,380                     | 2,340                     |
| 8,255                    | 7,930                    | 8,170                    | 4,268                    | 4,248                    | 4,225                     | 4,205                     | 4,185                     |
| 13,600                   | 13,455                   | 13,330                   | 7,347                    | 7,309                    | 7,210                     | 7,135                     | 7,065                     |
| 4,750                    | 4,955                    | 4,570                    | 2,565                    | 2,547                    | 2,470                     | 2,425                     | 2,380                     |
| 3,250                    | 3,280                    | 3,265                    | 1,600                    | 1,650                    | 1,670                     | 1,690                     | 1,710                     |
| 5,780                    | 5,890                    | 5,955                    | 2,858                    | 2,937                    | 2,995                     | 3,050                     | 3,105                     |
| 2,530                    | 2,610                    | 2,690                    | 1,258                    | 1,287                    | 1,325                     | 1,360                     | 1,395                     |
| <b>24,060</b>            | <b>23,940</b>            | <b>23,810</b>            | <b>12,665</b>            | <b>12,673</b>            | <b>12,625</b>             | <b>12,565</b>             | <b>12,510</b>             |
|                          |                          |                          |                          |                          |                           |                           |                           |
| 36,430                   | 36,390                   | 36,340                   | 17,996                   | 18,063                   | 17,935                    | 17,900                    | 17,850                    |
| 61,665                   | 61,075                   | 61,915                   | 30,768                   | 30,708                   | 30,865                    | 31,035                    | 31,200                    |
| 99,280                   | 99,120                   | 98,920                   | 51,343                   | 51,338                   | 51,345                    | 51,275                    | 51,200                    |
| 34,745                   | 36,705                   | 34,710                   | 16,919                   | 16,954                   | 16,975                    | 16,990                    | 17,005                    |
| 21,620                   | 22,130                   | 22,440                   | 10,277                   | 10,496                   | 10,790                    | 11,075                    | 11,370                    |
| 37,510                   | 38,660                   | 39,645                   | 17,574                   | 18,153                   | 18,785                    | 19,410                    | 20,040                    |
| 15,890                   | 16,530                   | 17,205                   | 7,297                    | 7,657                    | 7,995                     | 8,335                     | 8,670                     |
| <b>173,220</b>           | <b>174,170</b>           | <b>174,905</b>           | <b>86,913</b>            | <b>87,554</b>            | <b>88,065</b>             | <b>88,585</b>             | <b>89,090</b>             |
|                          |                          |                          |                          |                          |                           |                           |                           |
| 1,485                    | 1,445                    | 1,415                    | 823                      | 820                      | 795                       | 770                       | 750                       |
| 3,020                    | 2,945                    | 2,875                    | 1,330                    | 1,312                    | 1,290                     | 1,260                     | 1,250                     |
| 4,800                    | 4,650                    | 4,530                    | 2,438                    | 2,386                    | 2,325                     | 2,250                     | 2,190                     |
| 1,460                    | 1,515                    | 1,380                    | 794                      | 784                      | 775                       | 750                       | 740                       |
| 1,075                    | 1,060                    | 1,020                    | 611                      | 625                      | 615                       | 610                       | 600                       |
| 1,855                    | 1,875                    | 1,860                    | 982                      | 1,006                    | 1,020                     | 1,035                     | 1,045                     |
| 780                      | 815                      | 840                      | 371                      | 381                      | 405                       | 425                       | 445                       |
| <b>8,140</b>             | <b>7,970</b>             | <b>7,805</b>             | <b>4,243</b>             | <b>4,212</b>             | <b>4,140</b>              | <b>4,055</b>              | <b>3,985</b>              |
|                          |                          |                          |                          |                          |                           |                           |                           |
| 46,570                   | 46,820                   | 47,155                   | 22,523                   | 22,612                   | 22,545                    | 22,620                    | 22,695                    |
| 76,450                   | 76,495                   | 78,245                   | 36,774                   | 37,247                   | 37,745                    | 38,245                    | 38,740                    |
| 121,995                  | 122,815                  | 123,580                  | 60,530                   | 61,114                   | 61,690                    | 62,130                    | 62,550                    |
| 44,465                   | 47,155                   | 44,960                   | 21,245                   | 21,468                   | 21,635                    | 21,755                    | 21,875                    |
| 22,810                   | 23,200                   | 23,575                   | 11,191                   | 11,408                   | 11,635                    | 11,860                    | 12,080                    |

# MUHA EXHIBIT 02-013

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|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 40,065         | 41,020         | 41,940         | 19,676         | 20,229         | 20,775         | 21,325         | 21,870         |
| 17,255         | 17,820         | 18,365         | 8,485          | 8,821          | 9,140          | 9,465          | 9,790          |
| <b>208,630</b> | <b>210,655</b> | <b>212,675</b> | <b>102,729</b> | <b>103,955</b> | <b>105,010</b> | <b>106,075</b> | <b>107,115</b> |
|                |                |                |                |                |                |                |                |
| 2,620          | 2,550          | 2,480          | 1,385          | 1,325          | 1,375          | 1,330          | 1,290          |
| 4,595          | 4,145          | 4,365          | 2,615          | 2,573          | 2,490          | 2,410          | 2,330          |
| 7,390          | 7,175          | 7,025          | 4,379          | 4,303          | 4,100          | 3,985          | 3,865          |
| 2,770          | 2,875          | 2,615          | 1,641          | 1,583          | 1,485          | 1,430          | 1,380          |
| 1,860          | 1,870          | 1,840          | 965            | 982            | 990            | 995            | 1,005          |
| 3,280          | 3,315          | 3,325          | 1,755          | 1,781          | 1,810          | 1,830          | 1,860          |
| 1,420          | 1,445          | 1,485          | 790            | 799            | 820            | 835            | 855            |
| <b>13,290</b>  | <b>13,040</b>  | <b>12,830</b>  | <b>7,519</b>   | <b>7,409</b>   | <b>7,285</b>   | <b>7,145</b>   | <b>7,015</b>   |
|                |                |                |                |                |                |                |                |
| 4,660          | 4,575          | 4,510          | 2,534          | 2,490          | 2,410          | 2,360          | 2,320          |
| 7,020          | 6,765          | 6,855          | 3,826          | 3,753          | 3,695          | 3,640          | 3,580          |
| 11,385         | 11,165         | 10,975         | 6,483          | 6,374          | 6,280          | 6,155          | 6,015          |
| 4,360          | 4,500          | 4,200          | 2,355          | 2,340          | 2,325          | 2,270          | 2,220          |
| 2,435          | 2,455          | 2,445          | 1,258          | 1,273          | 1,290          | 1,305          | 1,325          |
| 4,145          | 4,220          | 4,255          | 2,129          | 2,179          | 2,220          | 2,260          | 2,310          |
| 1,710          | 1,765          | 1,810          | 871            | 906            | 930            | 955            | 985            |
| <b>20,190</b>  | <b>19,960</b>  | <b>19,740</b>  | <b>11,146</b>  | <b>11,043</b>  | <b>10,910</b>  | <b>10,775</b>  | <b>10,645</b>  |
|                |                |                |                |                |                |                |                |
| 35,650         | 35,615         | 35,605         | 17,390         | 17,225         | 17,230         | 17,165         | 17,105         |
| 64,830         | 63,410         | 65,910         | 29,711         | 29,756         | 30,080         | 30,395         | 30,710         |
| 106,250        | 107,440        | 108,570        | 51,399         | 51,650         | 52,200         | 52,810         | 53,425         |
| 35,715         | 38,435         | 35,805         | 16,418         | 16,399         | 16,525         | 16,560         | 16,595         |
| 34,075         | 34,935         | 35,890         | 16,065         | 16,510         | 17,030         | 17,555         | 18,075         |
| 61,200         | 63,640         | 66,180         | 26,035         | 27,364         | 28,720         | 30,075         | 31,425         |
| 27,125         | 28,705         | 30,290         | 9,970          | 10,854         | 11,690         | 12,520         | 13,350         |
| <b>203,100</b> | <b>206,695</b> | <b>210,355</b> | <b>94,824</b>  | <b>96,239</b>  | <b>98,150</b>  | <b>100,050</b> | <b>101,955</b> |
|                |                |                |                |                |                |                |                |
| 56,135         | 56,960         | 57,815         | 25,402         | 25,920         | 25,930         | 26,270         | 26,600         |
| 99,685         | 100,255        | 104,075        | 43,043         | 44,265         | 45,420         | 46,580         | 47,740         |
| 149,600        | 152,535        | 155,715        | 66,819         | 68,793         | 70,690         | 72,265         | 73,845         |
| 54,335         | 58,625         | 56,235         | 23,099         | 23,715         | 24,445         | 24,935         | 25,420         |
| 23,155         | 24,055         | 25,045         | 10,057         | 10,535         | 11,050         | 11,565         | 12,075         |
| 37,980         | 39,870         | 41,980         | 15,632         | 16,561         | 17,585         | 18,615         | 19,640         |
| 14,825         | 15,815         | 16,935         | 5,575          | 6,026          | 6,535          | 7,050          | 7,565          |
| <b>243,715</b> | <b>249,365</b> | <b>255,510</b> | <b>107,853</b> | <b>111,274</b> | <b>114,205</b> | <b>117,150</b> | <b>120,085</b> |
|                |                |                |                |                |                |                |                |
| 2,505          | 2,455          | 2,405          | 1,383          | 1,312          | 1,255          | 1,220          | 1,185          |
| 4,390          | 4,380          | 4,255          | 2,402          | 2,374          | 2,355          | 2,340          | 2,320          |
| 7,830          | 7,680          | 7,540          | 4,430          | 4,362          | 4,320          | 4,265          | 4,205          |
| 2,405          | 2,470          | 2,295          | 1,358          | 1,311          | 1,260          | 1,220          | 1,180          |

# MUHA EXHIBIT 02-014

ROA 005509

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 2,050          | 2,060          | 2,055          | 1,064          | 1,100          | 1,105          | 1,115          | 1,125          |
| 3,700          | 3,785          | 3,850          | 1,814          | 1,903          | 1,955          | 2,015          | 2,070          |
| 1,650          | 1,725          | 1,795          | 750            | 803            | 850            | 900            | 945            |
| <b>14,035</b>  | <b>13,920</b>  | <b>13,795</b>  | <b>7,627</b>   | <b>7,577</b>   | <b>7,530</b>   | <b>7,500</b>   | <b>7,460</b>   |
|                |                |                |                |                |                |                |                |
| 83,345         | 83,855         | 84,155         | 38,958         | 39,205         | 40,165         | 40,320         | 40,485         |
| 178,500        | 181,205        | 181,840        | 84,305         | 84,966         | 86,120         | 87,275         | 88,435         |
| 268,910        | 271,650        | 274,190        | 132,389        | 133,013        | 133,570        | 134,935        | 136,290        |
| 79,595         | 85,610         | 80,935         | 36,801         | 37,056         | 37,910         | 38,300         | 38,695         |
| 48,060         | 49,740         | 51,120         | 21,532         | 22,431         | 23,450         | 24,470         | 25,490         |
| 79,760         | 83,050         | 86,385         | 35,672         | 37,284         | 39,160         | 41,040         | 42,910         |
| 31,700         | 33,310         | 35,265         | 14,140         | 14,853         | 15,710         | 16,570         | 17,420         |
| <b>432,015</b> | <b>438,555</b> | <b>444,730</b> | <b>207,019</b> | <b>209,502</b> | <b>212,895</b> | <b>216,295</b> | <b>219,685</b> |
|                |                |                |                |                |                |                |                |
| 13,025         | 12,985         | 12,925         | 6,552          | 6,402          | 6,365          | 6,330          | 6,290          |
| 21,560         | 21,090         | 21,675         | 10,977         | 10,905         | 10,905         | 10,905         | 10,915         |
| 34,115         | 34,055         | 34,005         | 17,513         | 17,548         | 17,525         | 17,500         | 17,490         |
| 12,680         | 13,345         | 12,585         | 6,329          | 6,227          | 6,220          | 6,185          | 6,150          |
| 6,115          | 6,185          | 6,230          | 2,984          | 3,069          | 3,110          | 3,160          | 3,205          |
| 10,515         | 10,740         | 10,925         | 5,178          | 5,339          | 5,460          | 5,590          | 5,715          |
| 4,400          | 4,555          | 4,695          | 2,194          | 2,270          | 2,350          | 2,430          | 2,510          |
| <b>57,655</b>  | <b>57,780</b>  | <b>57,855</b>  | <b>29,243</b>  | <b>29,289</b>  | <b>29,350</b>  | <b>29,420</b>  | <b>29,495</b>  |
|                |                |                |                |                |                |                |                |
| 6,870          | 6,800          | 6,735          | 3,517          | 3,538          | 3,455          | 3,410          | 3,375          |
| 11,160         | 10,830         | 11,130         | 5,704          | 5,693          | 5,695          | 5,690          | 5,695          |
| 18,315         | 18,115         | 17,955         | 9,812          | 9,785          | 9,740          | 9,635          | 9,530          |
| 6,545          | 6,835          | 6,410          | 3,248          | 3,299          | 3,290          | 3,250          | 3,220          |
| 3,805          | 3,855          | 3,855          | 1,890          | 1,913          | 1,955          | 1,995          | 2,035          |
| 6,560          | 6,680          | 6,750          | 3,322          | 3,399          | 3,475          | 3,555          | 3,630          |
| 2,755          | 2,825          | 2,895          | 1,432          | 1,486          | 1,520          | 1,560          | 1,595          |
| <b>31,745</b>  | <b>31,595</b>  | <b>31,440</b>  | <b>16,651</b>  | <b>16,722</b>  | <b>16,670</b>  | <b>16,600</b>  | <b>16,535</b>  |
|                |                |                |                |                |                |                |                |
| 9,645          | 9,575          | 9,515          | 5,125          | 4,992          | 4,885          | 4,835          | 4,770          |
| 15,600         | 15,495         | 15,380         | 8,108          | 8,014          | 7,975          | 7,925          | 7,885          |
| 26,385         | 26,120         | 25,850         | 13,899         | 13,815         | 13,755         | 13,635         | 13,535         |
| 9,150          | 9,535          | 8,985          | 4,849          | 4,710          | 4,690          | 4,635          | 4,570          |
| 5,465          | 5,530          | 5,555          | 2,741          | 2,795          | 2,825          | 2,850          | 2,885          |
| 9,195          | 9,400          | 9,555          | 4,565          | 4,688          | 4,795          | 4,890          | 5,000          |
| 3,730          | 3,870          | 4,000          | 1,824          | 1,893          | 1,970          | 2,040          | 2,115          |
| <b>45,225</b>  | <b>45,095</b>  | <b>44,920</b>  | <b>23,589</b>  | <b>23,495</b>  | <b>23,435</b>  | <b>23,360</b>  | <b>23,305</b>  |
|                |                |                |                |                |                |                |                |
| 5,970          | 5,845          | 5,735          | 3,286          | 3,195          | 3,060          | 2,985          | 2,900          |
| 11,010         | 10,570         | 10,770         | 5,405          | 5,320          | 5,275          | 5,240          | 5,205          |
| 18,275         | 18,015         | 17,775         | 9,809          | 9,633          | 9,535          | 9,400          | 9,260          |

# MUHA EXHIBIT 02-015

ROA 005510

|                |                |                |               |               |               |               |               |
|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|
| 6,075          | 6,355          | 5,825          | 3,084         | 3,041         | 2,990         | 2,920         | 2,840         |
| 4,860          | 4,900          | 4,885          | 2,500         | 2,557         | 2,590         | 2,620         | 2,645         |
| 8,660          | 8,855          | 8,970          | 4,191         | 4,324         | 4,450         | 4,560         | 4,675         |
| 3,800          | 3,955          | 4,085          | 1,691         | 1,767         | 1,860         | 1,940         | 2,030         |
| <b>32,905</b>  | <b>32,715</b>  | <b>32,480</b>  | <b>17,286</b> | <b>17,152</b> | <b>17,045</b> | <b>16,945</b> | <b>16,835</b> |
| 8,145          | 8,100          | 8,070          | 4,118         | 4,100         | 4,015         | 3,975         | 3,940         |
| 12,845         | 12,665         | 12,835         | 6,613         | 6,570         | 6,565         | 6,560         | 6,550         |
| 21,155         | 21,005         | 20,855         | 11,373        | 11,301        | 11,265        | 11,180        | 11,085        |
| 7,565          | 7,905          | 7,470          | 3,846         | 3,807         | 3,810         | 3,775         | 3,735         |
| 4,935          | 5,000          | 5,010          | 2,380         | 2,455         | 2,495         | 2,545         | 2,585         |
| 8,215          | 8,370          | 8,480          | 4,015         | 4,128         | 4,215         | 4,310         | 4,390         |
| 3,280          | 3,370          | 3,470          | 1,635         | 1,673         | 1,720         | 1,765         | 1,805         |
| <b>37,515</b>  | <b>37,475</b>  | <b>37,405</b>  | <b>19,506</b> | <b>19,529</b> | <b>19,495</b> | <b>19,465</b> | <b>19,415</b> |
| 14,225         | 14,080         | 14,000         | 7,412         | 7,289         | 7,180         | 7,085         | 6,995         |
| 23,240         | 22,815         | 22,945         | 12,485        | 12,414        | 12,325        | 12,245        | 12,170        |
| 37,540         | 37,095         | 36,715         | 20,953        | 20,752        | 20,525        | 20,280        | 20,040        |
| 13,555         | 14,180         | 13,270         | 7,113         | 7,097         | 7,010         | 6,905         | 6,805         |
| 8,110          | 8,230          | 8,180          | 4,076         | 4,180         | 4,255         | 4,335         | 4,415         |
| 13,930         | 14,250         | 14,390         | 7,042         | 7,244         | 7,430         | 7,625         | 7,820         |
| 5,820          | 6,020          | 6,210          | 2,966         | 3,064         | 3,175         | 3,290         | 3,405         |
| <b>65,695</b>  | <b>65,425</b>  | <b>65,105</b>  | <b>35,407</b> | <b>35,285</b> | <b>35,135</b> | <b>34,990</b> | <b>34,855</b> |
| 7,240          | 7,150          | 7,070          | 3,741         | 3,705         | 3,575         | 3,510         | 3,440         |
| 11,060         | 10,710         | 10,930         | 5,851         | 5,918         | 5,880         | 5,835         | 5,790         |
| 17,135         | 16,950         | 16,775         | 9,413         | 9,427         | 9,390         | 9,290         | 9,190         |
| 6,765          | 7,035          | 6,585          | 3,495         | 3,466         | 3,435         | 3,360         | 3,280         |
| 3,270          | 3,320          | 3,320          | 1,673         | 1,694         | 1,720         | 1,740         | 1,765         |
| 5,515          | 5,620          | 5,685          | 2,928         | 2,952         | 3,000         | 3,045         | 3,095         |
| 2,245          | 2,300          | 2,365          | 1,255         | 1,258         | 1,280         | 1,305         | 1,330         |
| <b>29,890</b>  | <b>29,720</b>  | <b>29,530</b>  | <b>16,082</b> | <b>16,084</b> | <b>15,965</b> | <b>15,845</b> | <b>15,725</b> |
| 39,555         | 39,795         | 40,080         | 19,492        | 19,311        | 19,035        | 19,105        | 19,180        |
| 68,695         | 69,150         | 70,985         | 32,092        | 32,184        | 32,840        | 33,495        | 34,155        |
| 105,735        | 107,330        | 108,745        | 50,318        | 50,693        | 51,885        | 52,740        | 53,590        |
| 38,010         | 40,295         | 38,565         | 17,892        | 17,872        | 18,180        | 18,315        | 18,460        |
| 16,940         | 17,560         | 18,235         | 7,421         | 7,760         | 8,130         | 8,495         | 8,860         |
| 27,610         | 28,840         | 30,285         | 11,902        | 12,567        | 13,285        | 14,005        | 14,715        |
| 10,670         | 11,280         | 12,050         | 4,481         | 4,807         | 5,155         | 5,510         | 5,855         |
| <b>172,900</b> | <b>175,965</b> | <b>179,110</b> | <b>81,712</b> | <b>82,571</b> | <b>84,205</b> | <b>85,850</b> | <b>87,485</b> |
| 4,660          | 4,620          | 4,600          | 2,437         | 2,425         | 2,360         | 2,340         | 2,320         |
| 10,490         | 10,690         | 10,520         | 4,058         | 4,170         | 4,190         | 4,205         | 4,225         |

MUHA EXHIBIT 02-016

ROA 005511

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 16,895         | 16,835         | 16,790         | 7,304          | 7,375          | 7,395          | 7,370          | 7,345          |
| 4,815          | 5,080          | 4,725          | 2,360          | 2,371          | 2,370          | 2,345          | 2,330          |
| 3,315          | 3,375          | 3,390          | 1,523          | 1,587          | 1,615          | 1,645          | 1,675          |
| 5,695          | 5,845          | 5,955          | 2,646          | 2,728          | 2,805          | 2,885          | 2,960          |
| 2,380          | 2,470          | 2,565          | 1,123          | 1,141          | 1,190          | 1,240          | 1,285          |
| <b>27,250</b>  | <b>27,300</b>  | <b>27,345</b>  | <b>12,387</b>  | <b>12,528</b>  | <b>12,560</b>  | <b>12,595</b>  | <b>12,625</b>  |
|                |                |                |                |                |                |                |                |
| 3,900          | 3,810          | 3,740          | 2,137          | 2,071          | 2,015          | 1,965          | 1,915          |
| 6,875          | 6,775          | 6,700          | 3,830          | 3,743          | 3,700          | 3,645          | 3,605          |
| 12,260         | 12,010         | 11,775         | 7,149          | 6,976          | 6,855          | 6,715          | 6,595          |
| 3,800          | 3,920          | 3,630          | 2,112          | 2,063          | 2,025          | 1,960          | 1,910          |
| 3,375          | 3,445          | 3,450          | 1,524          | 1,605          | 1,655          | 1,705          | 1,750          |
| 5,465          | 5,605          | 5,715          | 2,542          | 2,652          | 2,735          | 2,820          | 2,900          |
| 2,090          | 2,160          | 2,265          | 1,018          | 1,047          | 1,080          | 1,115          | 1,150          |
| <b>21,625</b>  | <b>21,425</b>  | <b>21,230</b>  | <b>11,828</b>  | <b>11,699</b>  | <b>11,605</b>  | <b>11,500</b>  | <b>11,410</b>  |
|                |                |                |                |                |                |                |                |
| 31,320         | 31,060         | 30,760         | 16,480         | 16,230         | 15,965         | 15,840         | 15,705         |
| 51,320         | 50,375         | 50,945         | 27,689         | 27,360         | 27,250         | 27,145         | 27,035         |
| 80,205         | 79,660         | 79,205         | 44,251         | 43,853         | 43,710         | 43,435         | 43,150         |
| 30,245         | 31,775         | 29,765         | 15,741         | 15,655         | 15,435         | 15,355         | 15,260         |
| 15,075         | 15,260         | 15,245         | 7,723          | 7,936          | 8,050          | 8,160          | 8,270          |
| 25,830         | 26,420         | 26,810         | 13,204         | 13,617         | 13,960         | 14,285         | 14,620         |
| 10,755         | 11,160         | 11,565         | 5,481          | 5,681          | 5,910          | 6,125          | 6,350          |
| <b>137,355</b> | <b>137,140</b> | <b>136,775</b> | <b>73,935</b>  | <b>73,700</b>  | <b>73,635</b>  | <b>73,560</b>  | <b>73,475</b>  |
|                |                |                |                |                |                |                |                |
| 10,745         | 10,605         | 10,510         | 5,633          | 5,540          | 5,375          | 5,300          | 5,220          |
| 17,945         | 17,940         | 17,755         | 9,312          | 9,316          | 9,280          | 9,235          | 9,195          |
| 32,810         | 32,595         | 32,350         | 17,829         | 17,834         | 17,825         | 17,725         | 17,635         |
| 10,475         | 10,925         | 10,185         | 5,364          | 5,353          | 5,310          | 5,235          | 5,155          |
| 11,555         | 11,775         | 11,845         | 5,617          | 5,800          | 5,945          | 6,090          | 6,235          |
| 19,725         | 20,340         | 20,810         | 9,060          | 9,415          | 9,755          | 10,105         | 10,450         |
| 8,170          | 8,565          | 8,965          | 3,443          | 3,615          | 3,810          | 4,015          | 4,215          |
| <b>63,280</b>  | <b>63,540</b>  | <b>63,670</b>  | <b>32,522</b>  | <b>32,789</b>  | <b>32,955</b>  | <b>33,130</b>  | <b>33,305</b>  |
|                |                |                |                |                |                |                |                |
| 121,995        | 122,965        | 124,015        | 57,792         | 58,155         | 58,465         | 58,860         | 59,250         |
| 216,665        | 217,645        | 223,730        | 100,925        | 102,398        | 104,220        | 106,050        | 107,865        |
| 330,525        | 334,410        | 338,430        | 159,344        | 161,203        | 163,300        | 165,310        | 167,310        |
| 116,670        | 124,680        | 118,765        | 54,925         | 55,554         | 56,235         | 56,845         | 57,450         |
| 55,370         | 57,060         | 58,535         | 25,391         | 26,309         | 27,270         | 28,225         | 29,180         |
| 95,055         | 98,530         | 102,040        | 43,641         | 45,491         | 47,405         | 49,310         | 51,225         |
| 39,685         | 41,470         | 43,505         | 18,250         | 19,182         | 20,135         | 21,085         | 22,045         |
| <b>547,575</b> | <b>555,905</b> | <b>564,485</b> | <b>260,777</b> | <b>264,849</b> | <b>269,170</b> | <b>273,480</b> | <b>277,785</b> |
|                |                |                |                |                |                |                |                |
| 16,035         | 15,985         | 15,910         | 7,992          | 7,938          | 8,135          | 8,120          | 8,105          |

# MUHA EXHIBIT 02-017

ROA 005512

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 26,330         | 25,240         | 26,320         | 14,124         | 14,064         | 14,085         | 14,105         | 14,125         |
| 40,770         | 40,600         | 40,455         | 22,402         | 22,403         | 22,120         | 22,045         | 21,975         |
| 15,575         | 16,445         | 15,485         | 7,962          | 7,980          | 7,980          | 7,975          | 7,980          |
| 7,855          | 7,985          | 8,075          | 3,913          | 3,970          | 4,045          | 4,120          | 4,195          |
| 14,395         | 14,715         | 15,000         | 7,322          | 7,451          | 7,620          | 7,795          | 7,960          |
| 6,540          | 6,730          | 6,925          | 3,409          | 3,481          | 3,575          | 3,675          | 3,765          |
| <b>71,200</b>  | <b>71,300</b>  | <b>71,365</b>  | <b>37,716</b>  | <b>37,792</b>  | <b>37,875</b>  | <b>37,960</b>  | <b>38,040</b>  |
|                |                |                |                |                |                |                |                |
| 3,780          | 3,710          | 3,645          | 2,074          | 2,010          | 1,960          | 1,930          | 1,900          |
| 6,900          | 6,755          | 6,690          | 3,348          | 3,281          | 3,225          | 3,175          | 3,125          |
| 10,860         | 10,650         | 10,470         | 5,539          | 5,482          | 5,395          | 5,295          | 5,200          |
| 3,610          | 3,725          | 3,465          | 1,939          | 1,899          | 1,860          | 1,830          | 1,795          |
| 2,165          | 2,180          | 2,160          | 1,099          | 1,121          | 1,130          | 1,140          | 1,150          |
| 3,800          | 3,865          | 3,890          | 1,927          | 1,959          | 1,990          | 2,015          | 2,045          |
| 1,635          | 1,685          | 1,730          | 828            | 838            | 860            | 875            | 895            |
| <b>18,440</b>  | <b>18,225</b>  | <b>18,005</b>  | <b>9,540</b>   | <b>9,451</b>   | <b>9,345</b>   | <b>9,240</b>   | <b>9,145</b>   |
|                |                |                |                |                |                |                |                |
| 65,240         | 66,020         | 66,785         | 30,142         | 30,423         | 31,000         | 31,355         | 31,705         |
| 123,770        | 126,790        | 128,645        | 56,717         | 57,653         | 58,975         | 60,290         | 61,615         |
| 220,335        | 225,505        | 230,755        | 101,536        | 104,320        | 106,950        | 109,795        | 112,650        |
| 65,060         | 70,175         | 67,030         | 28,927         | 29,407         | 30,380         | 30,955         | 31,540         |
| 70,710         | 74,845         | 79,580         | 26,431         | 28,306         | 30,570         | 32,840         | 35,110         |
| 110,405        | 117,405        | 126,340        | 40,439         | 43,594         | 47,325         | 51,055         | 54,795         |
| 39,695         | 42,560         | 46,760         | 14,008         | 15,288         | 16,755         | 18,215         | 19,685         |
| <b>395,980</b> | <b>408,930</b> | <b>423,880</b> | <b>172,117</b> | <b>178,337</b> | <b>185,275</b> | <b>192,205</b> | <b>199,150</b> |
|                |                |                |                |                |                |                |                |
| 5,785          | 5,765          | 5,755          | 2,897          | 2,897          | 2,845          | 2,835          | 2,815          |
| 10,590         | 10,635         | 10,580         | 4,736          | 4,802          | 4,825          | 4,850          | 4,880          |
| 17,830         | 17,905         | 17,905         | 8,249          | 8,408          | 8,520          | 8,585          | 8,660          |
| 5,480          | 5,825          | 5,440          | 2,629          | 2,633          | 2,695          | 2,690          | 2,680          |
| 4,935          | 5,245          | 5,575          | 1,889          | 1,995          | 2,160          | 2,330          | 2,495          |
| 7,765          | 8,315          | 9,015          | 2,866          | 3,046          | 3,335          | 3,620          | 3,910          |
| 2,830          | 3,070          | 3,440          | 977            | 1,051          | 1,175          | 1,290          | 1,415          |
| <b>31,380</b>  | <b>31,985</b>  | <b>32,675</b>  | <b>14,012</b>  | <b>14,351</b>  | <b>14,700</b>  | <b>15,040</b>  | <b>15,385</b>  |
|                |                |                |                |                |                |                |                |
| 15,085         | 15,115         | 15,165         | 7,342          | 7,350          | 7,260          | 7,275          | 7,285          |
| 24,115         | 24,105         | 24,580         | 11,633         | 11,687         | 11,830         | 11,970         | 12,110         |
| 39,150         | 39,295         | 39,450         | 19,707         | 19,881         | 20,070         | 20,145         | 20,220         |
| 14,260         | 15,020         | 14,320         | 6,757          | 6,773          | 6,840          | 6,870          | 6,900          |
| 8,010          | 8,180          | 8,270          | 3,765          | 3,894          | 4,000          | 4,105          | 4,215          |
| 13,525         | 13,895         | 14,215         | 6,535          | 6,739          | 6,955          | 7,165          | 7,385          |
| 5,515          | 5,715          | 5,945          | 2,770          | 2,845          | 2,955          | 3,060          | 3,170          |
| <b>67,760</b>  | <b>68,305</b>  | <b>68,830</b>  | <b>33,584</b>  | <b>33,970</b>  | <b>34,285</b>  | <b>34,585</b>  | <b>34,890</b>  |
|                |                |                |                |                |                |                |                |

# MUHA EXHIBIT 02-018

ROA 005513

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 22,995         | 23,600         | 24,280         | 10,055         | 10,319         | 10,465         | 10,740         | 11,025         |
| 37,500         | 39,670         | 39,680         | 16,387         | 16,756         | 17,345         | 17,925         | 18,520         |
| 60,775         | 62,280         | 64,045         | 26,997         | 27,662         | 28,645         | 29,490         | 30,350         |
| 21,110         | 22,735         | 22,420         | 8,879          | 9,168          | 9,550          | 9,870          | 10,195         |
| 13,840         | 14,250         | 14,640         | 6,539          | 6,722          | 6,975          | 7,225          | 7,475          |
| 24,830         | 26,020         | 27,320         | 10,633         | 11,132         | 11,805         | 12,470         | 13,145         |
| 10,990         | 11,770         | 12,680         | 4,094          | 4,410          | 4,830          | 5,245          | 5,670          |
| <b>108,600</b> | <b>111,900</b> | <b>115,645</b> | <b>47,685</b>  | <b>49,113</b>  | <b>50,915</b>  | <b>52,700</b>  | <b>54,520</b>  |
|                |                |                |                |                |                |                |                |
| 14,440         | 14,380         | 14,320         | 7,146          | 7,093          | 7,085          | 7,040          | 6,995          |
| 24,260         | 23,795         | 24,400         | 12,268         | 12,232         | 12,285         | 12,350         | 12,405         |
| 39,235         | 39,070         | 38,920         | 20,682         | 20,649         | 20,540         | 20,480         | 20,410         |
| 13,955         | 14,695         | 13,840         | 7,058          | 7,039          | 6,905          | 6,865          | 6,825          |
| 7,755          | 7,880          | 7,950          | 3,720          | 3,790          | 3,855          | 3,910          | 3,975          |
| 13,605         | 13,905         | 14,155         | 6,693          | 6,871          | 7,025          | 7,175          | 7,325          |
| 5,850          | 6,025          | 6,205          | 2,973          | 3,081          | 3,170          | 3,265          | 3,350          |
| <b>67,280</b>  | <b>67,355</b>  | <b>67,395</b>  | <b>34,521</b>  | <b>34,613</b>  | <b>34,650</b>  | <b>34,695</b>  | <b>34,730</b>  |
|                |                |                |                |                |                |                |                |
| 3,140          | 3,065          | 3,015          | 1,755          | 1,663          | 1,605          | 1,550          | 1,510          |
| 6,240          | 6,070          | 6,025          | 2,811          | 2,785          | 2,750          | 2,725          | 2,695          |
| 9,650          | 9,435          | 9,240          | 4,953          | 4,873          | 4,790          | 4,710          | 4,610          |
| 3,135          | 3,285          | 2,985          | 1,654          | 1,580          | 1,550          | 1,500          | 1,455          |
| 2,055          | 2,075          | 2,045          | 1,023          | 1,050          | 1,070          | 1,090          | 1,105          |
| 3,345          | 3,390          | 3,395          | 1,780          | 1,793          | 1,830          | 1,860          | 1,890          |
| 1,290          | 1,315          | 1,350          | 757            | 743            | 760            | 770            | 785            |
| <b>16,135</b>  | <b>15,890</b>  | <b>15,650</b>  | <b>8,488</b>   | <b>8,329</b>   | <b>8,225</b>   | <b>8,120</b>   | <b>8,010</b>   |
|                |                |                |                |                |                |                |                |
| 68,850         | 69,250         | 69,590         | 33,303         | 33,557         | 33,070         | 33,195         | 33,320         |
| 119,405        | 121,140        | 122,755        | 56,085         | 56,734         | 57,600         | 58,475         | 59,355         |
| 188,610        | 190,455        | 192,385        | 91,109         | 92,016         | 93,550         | 94,490         | 95,425         |
| 66,335         | 70,405         | 67,275         | 30,572         | 31,045         | 31,585         | 31,850         | 32,110         |
| 32,315         | 33,295         | 34,060         | 14,640         | 15,191         | 15,770         | 16,355         | 16,940         |
| 54,720         | 56,765         | 58,685         | 24,805         | 25,905         | 27,075         | 28,240         | 29,415         |
| 22,405         | 23,470         | 24,625         | 10,165         | 10,714         | 11,305         | 11,885         | 12,475         |
| <b>312,180</b> | <b>316,470</b> | <b>320,660</b> | <b>149,217</b> | <b>151,478</b> | <b>153,695</b> | <b>155,925</b> | <b>158,160</b> |
|                |                |                |                |                |                |                |                |
| 955            | 920            | 885            | 580            | 554            | 520            | 500            | 485            |
| 2,240          | 2,250          | 2,100          | 949            | 941            | 920            | 900            | 875            |
| 4,435          | 4,280          | 4,145          | 2,152          | 2,113          | 2,080          | 2,025          | 1,965          |
| 955            | 970            | 880            | 529            | 526            | 520            | 500            | 480            |
| 1,965          | 1,955          | 1,945          | 1,055          | 1,056          | 1,050          | 1,045          | 1,035          |
| 3,550          | 3,615          | 3,645          | 1,647          | 1,690          | 1,725          | 1,755          | 1,780          |
| 1,585          | 1,660          | 1,700          | 592            | 634            | 675            | 710            | 745            |
| <b>8,940</b>   | <b>8,815</b>   | <b>8,675</b>   | <b>4,379</b>   | <b>4,357</b>   | <b>4,325</b>   | <b>4,280</b>   | <b>4,230</b>   |

# MUHA EXHIBIT 02-019

ROA 005514

|               |               |               |               |               |               |               |               |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|               |               |               |               |               |               |               |               |
| 6,595         | 6,495         | 6,410         | 3,613         | 3,504         | 3,380         | 3,325         | 3,260         |
| 10,415        | 10,150        | 10,185        | 5,737         | 5,697         | 5,635         | 5,585         | 5,520         |
| 16,835        | 16,560        | 16,365        | 9,751         | 9,646         | 9,535         | 9,385         | 9,225         |
| 6,240         | 6,480         | 6,055         | 3,348         | 3,249         | 3,235         | 3,175         | 3,120         |
| 3,950         | 3,980         | 3,900         | 2,151         | 2,197         | 2,225         | 2,250         | 2,280         |
| 6,655         | 6,775         | 6,790         | 3,592         | 3,659         | 3,745         | 3,830         | 3,915         |
| 2,705         | 2,795         | 2,890         | 1,441         | 1,462         | 1,520         | 1,580         | 1,635         |
| <b>30,085</b> | <b>29,830</b> | <b>29,565</b> | <b>16,956</b> | <b>16,809</b> | <b>16,660</b> | <b>16,540</b> | <b>16,400</b> |
|               |               |               |               |               |               |               |               |
| 4,980         | 4,915         | 4,860         | 2,632         | 2,569         | 2,535         | 2,495         | 2,470         |
| 9,410         | 9,320         | 9,040         | 4,342         | 4,242         | 4,180         | 4,115         | 4,055         |
| 15,055        | 14,710        | 14,400        | 7,456         | 7,343         | 7,225         | 7,100         | 6,980         |
| 4,750         | 4,945         | 4,620         | 2,469         | 2,433         | 2,410         | 2,375         | 2,350         |
| 2,990         | 2,995         | 2,985         | 1,568         | 1,615         | 1,620         | 1,625         | 1,630         |
| 5,035         | 5,105         | 5,150         | 2,650         | 2,708         | 2,750         | 2,790         | 2,830         |
| 2,045         | 2,110         | 2,165         | 1,082         | 1,093         | 1,130         | 1,165         | 1,200         |
| <b>25,070</b> | <b>24,730</b> | <b>24,410</b> | <b>12,738</b> | <b>12,620</b> | <b>12,510</b> | <b>12,385</b> | <b>12,280</b> |
|               |               |               |               |               |               |               |               |
| 8,705         | 8,735         | 8,790         | 4,238         | 4,176         | 4,255         | 4,260         | 4,275         |
| 13,755        | 13,195        | 13,840        | 6,733         | 6,694         | 6,720         | 6,760         | 6,790         |
| 22,100        | 22,030        | 21,975        | 11,334        | 11,323        | 11,235        | 11,225        | 11,190        |
| 8,440         | 8,995         | 8,515         | 4,085         | 4,088         | 4,080         | 4,095         | 4,120         |
| 4,815         | 4,900         | 4,940         | 2,338         | 2,382         | 2,425         | 2,470         | 2,510         |
| 8,360         | 8,555         | 8,710         | 4,128         | 4,228         | 4,330         | 4,435         | 4,535         |
| 3,545         | 3,655         | 3,770         | 1,790         | 1,846         | 1,905         | 1,965         | 2,025         |
| <b>39,165</b> | <b>39,320</b> | <b>39,475</b> | <b>19,700</b> | <b>19,727</b> | <b>19,820</b> | <b>19,920</b> | <b>20,000</b> |
|               |               |               |               |               |               |               |               |
| 15,440        | 15,440        | 15,430        | 7,662         | 7,702         | 7,565         | 7,565         | 7,570         |
| 26,030        | 26,065        | 26,345        | 12,382        | 12,461        | 12,560        | 12,670        | 12,770        |
| 44,970        | 45,035        | 45,100        | 22,210        | 22,382        | 22,545        | 22,585        | 22,605        |
| 14,965        | 15,825        | 14,980        | 7,093         | 7,195         | 7,285         | 7,310         | 7,335         |
| 11,960        | 12,215        | 12,425        | 5,566         | 5,683         | 5,835         | 5,990         | 6,145         |
| 20,400        | 20,950        | 21,430        | 9,458         | 9,733         | 10,025        | 10,330        | 10,625        |
| 8,440         | 8,735         | 9,005         | 3,892         | 4,050         | 4,190         | 4,340         | 4,480         |
| <b>80,810</b> | <b>81,425</b> | <b>81,960</b> | <b>39,330</b> | <b>39,817</b> | <b>40,135</b> | <b>40,480</b> | <b>40,800</b> |
|               |               |               |               |               |               |               |               |
| 18,340        | 18,065        | 17,735        | 9,639         | 9,475         | 9,570         | 9,450         | 9,330         |
| 29,700        | 27,520        | 28,925        | 16,631        | 16,454        | 16,230        | 16,015        | 15,805        |
| 46,880        | 45,995        | 45,250        | 27,456        | 27,110        | 26,425        | 25,965        | 25,510        |
| 18,200        | 19,030        | 17,645        | 9,956         | 9,881         | 9,570         | 9,445         | 9,325         |
| 10,375        | 10,430        | 10,405        | 5,470         | 5,560         | 5,620         | 5,675         | 5,730         |
| 18,340        | 18,640        | 18,830        | 9,568         | 9,801         | 9,985         | 10,165        | 10,340        |
| 7,965         | 8,210         | 8,425         | 4,098         | 4,241         | 4,365         | 4,490         | 4,610         |

# MUHA EXHIBIT 02-020

ROA 005515

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>83,560</b>  | <b>82,700</b>  | <b>81,815</b>  | <b>46,663</b>  | <b>46,386</b>  | <b>45,980</b>  | <b>45,580</b>  | <b>45,180</b>  |
|                |                |                |                |                |                |                |                |
| 26,935         | 27,140         | 27,310         | 11,533         | 11,612         | 12,820         | 12,920         | 13,010         |
| 54,840         | 50,625         | 55,385         | 25,901         | 26,103         | 26,125         | 26,150         | 26,180         |
| 78,245         | 78,265         | 78,605         | 39,427         | 39,737         | 38,615         | 38,615         | 38,620         |
| 30,455         | 33,580         | 30,755         | 15,093         | 15,139         | 14,485         | 14,540         | 14,595         |
| 12,930         | 13,180         | 13,450         | 6,142          | 6,294          | 6,430          | 6,565          | 6,695          |
| 23,065         | 23,665         | 24,245         | 11,034         | 11,374         | 11,695         | 12,015         | 12,325         |
| 10,135         | 10,485         | 10,795         | 4,892          | 5,080          | 5,265          | 5,450          | 5,630          |
| <b>128,245</b> | <b>129,070</b> | <b>130,160</b> | <b>61,994</b>  | <b>62,723</b>  | <b>63,130</b>  | <b>63,550</b>  | <b>63,955</b>  |
|                |                |                |                |                |                |                |                |
| 95,100         | 95,420         | 95,805         | 43,677         | 43,799         | 46,295         | 46,380         | 46,465         |
| 198,025        | 187,450        | 200,195        | 95,770         | 96,394         | 97,140         | 97,900         | 98,650         |
| 271,115        | 271,885        | 272,800        | 139,469        | 140,116        | 138,215        | 138,720        | 139,230        |
| 102,805        | 112,480        | 103,415        | 50,320         | 50,535         | 49,850         | 49,985         | 50,125         |
| 36,930         | 37,910         | 38,455         | 17,528         | 18,257         | 18,860         | 19,460         | 20,065         |
| 60,900         | 62,935         | 64,710         | 29,108         | 30,342         | 31,500         | 32,655         | 33,815         |
| 23,970         | 25,025         | 26,255         | 11,580         | 12,085         | 12,640         | 13,195         | 13,750         |
| <b>427,115</b> | <b>430,240</b> | <b>433,315</b> | <b>212,254</b> | <b>214,257</b> | <b>216,010</b> | <b>217,755</b> | <b>219,510</b> |
|                |                |                |                |                |                |                |                |
| 4,340          | 4,320          | 4,290          | 2,121          | 2,129          | 2,095          | 2,085          | 2,070          |
| 7,105          | 7,060          | 7,065          | 3,321          | 3,289          | 3,275          | 3,275          | 3,260          |
| 11,950         | 11,905         | 11,860         | 5,806          | 5,789          | 5,790          | 5,780          | 5,745          |
| 4,035          | 4,245          | 3,995          | 1,904          | 1,910          | 1,925          | 1,930          | 1,925          |
| 2,425          | 2,465          | 2,510          | 1,171          | 1,161          | 1,175          | 1,185          | 1,200          |
| 4,500          | 4,605          | 4,715          | 2,165          | 2,210          | 2,260          | 2,315          | 2,360          |
| 2,075          | 2,140          | 2,205          | 994            | 1,049          | 1,085          | 1,130          | 1,160          |
| <b>20,790</b>  | <b>20,830</b>  | <b>20,865</b>  | <b>10,092</b>  | <b>10,128</b>  | <b>10,145</b>  | <b>10,180</b>  | <b>10,175</b>  |
|                |                |                |                |                |                |                |                |
| 75,040         | 75,675         | 76,455         | 34,917         | 35,620         | 36,070         | 36,370         | 36,670         |
| 131,565        | 131,180        | 136,560        | 59,981         | 61,593         | 62,800         | 64,015         | 65,225         |
| 200,880        | 203,465        | 206,135        | 95,237         | 97,499         | 98,605         | 99,860         | 101,115        |
| 72,555         | 77,485         | 73,840         | 33,889         | 34,509         | 34,990         | 35,360         | 35,730         |
| 33,185         | 33,910         | 34,500         | 15,819         | 16,290         | 16,745         | 17,200         | 17,655         |
| 57,280         | 58,895         | 60,460         | 27,580         | 28,581         | 29,485         | 30,390         | 31,290         |
| 24,095         | 24,985         | 25,960         | 11,761         | 12,291         | 12,740         | 13,190         | 13,635         |
| <b>333,200</b> | <b>338,035</b> | <b>343,050</b> | <b>157,734</b> | <b>161,700</b> | <b>164,160</b> | <b>166,620</b> | <b>169,075</b> |
|                |                |                |                |                |                |                |                |
| 24,430         | 24,215         | 23,975         | 12,670         | 12,584         | 12,390         | 12,265         | 12,140         |
| 41,065         | 39,635         | 40,615         | 20,639         | 20,664         | 20,595         | 20,535         | 20,470         |
| 61,140         | 60,505         | 59,870         | 32,673         | 32,542         | 32,295         | 31,985         | 31,670         |
| 23,155         | 24,425         | 22,710         | 11,813         | 11,799         | 11,720         | 11,610         | 11,500         |
| 11,070         | 11,305         | 11,410         | 5,471          | 5,674          | 5,815          | 5,950          | 6,085          |
| 19,390         | 19,855         | 20,230         | 9,830          | 10,170         | 10,455         | 10,730         | 11,005         |

# MUHA EXHIBIT 02-021

ROA 005516

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 8,320          | 8,550          | 8,820          | 4,359          | 4,496          | 4,640          | 4,780          | 4,920          |
| <b>104,960</b> | <b>104,575</b> | <b>104,075</b> | <b>55,173</b>  | <b>55,296</b>  | <b>55,140</b>  | <b>54,980</b>  | <b>54,815</b>  |
| 5,590          | 5,555          | 5,535          | 2,874          | 2,845          | 2,780          | 2,765          | 2,750          |
| 8,915          | 8,875          | 8,785          | 4,751          | 4,749          | 4,715          | 4,690          | 4,660          |
| 15,265         | 15,045         | 14,855         | 8,401          | 8,379          | 8,325          | 8,230          | 8,140          |
| 5,180          | 5,405          | 5,105          | 2,599          | 2,575          | 2,585          | 2,560          | 2,545          |
| 3,500          | 3,550          | 3,550          | 1,812          | 1,819          | 1,845          | 1,870          | 1,895          |
| 5,965          | 6,070          | 6,125          | 3,153          | 3,199          | 3,255          | 3,315          | 3,365          |
| 2,465          | 2,520          | 2,575          | 1,341          | 1,380          | 1,410          | 1,445          | 1,470          |
| <b>26,820</b>  | <b>26,670</b>  | <b>26,515</b>  | <b>14,428</b>  | <b>14,423</b>  | <b>14,360</b>  | <b>14,310</b>  | <b>14,255</b>  |
| 5,655          | 5,505          | 5,400          | 3,313          | 3,195          | 3,105          | 3,030          | 2,955          |
| 9,740          | 9,535          | 9,300          | 5,315          | 5,221          | 5,135          | 5,050          | 4,965          |
| 16,060         | 15,620         | 15,255         | 9,358          | 9,231          | 9,055          | 8,860          | 8,665          |
| 5,445          | 5,600          | 5,145          | 3,111          | 3,033          | 3,000          | 2,925          | 2,845          |
| 4,045          | 4,080          | 3,995          | 2,089          | 2,113          | 2,150          | 2,190          | 2,230          |
| 6,945          | 7,070          | 7,085          | 3,602          | 3,688          | 3,770          | 3,855          | 3,945          |
| 2,900          | 2,990          | 3,090          | 1,513          | 1,575          | 1,620          | 1,665          | 1,715          |
| <b>28,660</b>  | <b>28,195</b>  | <b>27,740</b>  | <b>16,273</b>  | <b>16,114</b>  | <b>15,930</b>  | <b>15,745</b>  | <b>15,565</b>  |
| 71,285         | 72,575         | 73,945         | 31,855         | 32,721         | 33,245         | 33,855         | 34,465         |
| 118,660        | 122,200        | 125,160        | 53,447         | 54,908         | 56,460         | 58,010         | 59,560         |
| 186,020        | 190,325        | 195,210        | 85,173         | 87,269         | 89,555         | 91,750         | 93,940         |
| 68,895         | 73,845         | 71,725         | 30,696         | 31,521         | 32,160         | 32,905         | 33,650         |
| 29,005         | 30,140         | 31,240         | 12,495         | 13,174         | 13,810         | 14,455         | 15,095         |
| 47,760         | 49,895         | 52,200         | 20,675         | 21,890         | 23,055         | 24,230         | 25,405         |
| 18,755         | 19,755         | 20,960         | 8,180          | 8,716          | 9,245          | 9,775          | 10,310         |
| <b>305,065</b> | <b>312,795</b> | <b>321,355</b> | <b>137,703</b> | <b>141,880</b> | <b>145,855</b> | <b>149,835</b> | <b>153,810</b> |

18 Bridged-Race Postcensal Estimates produced by the Population Health Statistics. Estimates for 2017 and 2018 from previous or future is table.

Fiscal Affairs Health and Demographics Section. Births and deaths sion of Biostatistics.

ent model of demographic change. This model uses a base population cific fertility rates, and net migration by age and sex to calculate

## MUHA EXHIBIT 02-022

*re most current data available. The overall accuracy of the projections trends observed within each group. The model cannot account for n the future. These possible events include large factory openings or n the economy, or other conditions that could affect birth rates, death are likely to be more accurate in the immediate future than in distant*

ROA 005517

# MUHA EXHIBIT 02-023

ROA 005518

| Projection 2022<br>Female | Projection 2023<br>Female | Projection 2024<br>Female | Estimates 2015<br>Male | Estimates 2016<br>Male | Projection 2019<br>Male | Projection 2020<br>Male | Projection 2021<br>Male |
|---------------------------|---------------------------|---------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| 551,765                   | 553,100                   | 554,625                   | 560,824                | 561,858                | 569,080                 | 572,175                 | 575,245                 |
| 1,019,600                 | 1,023,120                 | 1,040,705                 | 959,814                | 966,644                | 976,945                 | 987,255                 | 997,540                 |
| 1,622,530                 | 1,634,460                 | 1,647,610                 | 1,490,154              | 1,501,257              | 1,507,330               | 1,517,585               | 1,527,765               |
| 542,600                   | 579,235                   | 547,065                   | 549,405                | 552,161                | 554,315                 | 557,230                 | 560,055                 |
| 337,690                   | 348,120                   | 356,520                   | 247,182                | 253,847                | 261,305                 | 268,755                 | 276,190                 |
| 583,980                   | 605,025                   | 626,505                   | 384,481                | 400,211                | 417,105                 | 434,015                 | 450,870                 |
| 246,290                   | 256,905                   | 269,985                   | 137,299                | 146,364                | 155,800                 | 165,260                 | 174,680                 |
| <b>2,758,275</b>          | <b>2,792,585</b>          | <b>2,828,740</b>          | <b>2,435,459</b>       | <b>2,463,326</b>       | <b>2,493,515</b>        | <b>2,523,775</b>        | <b>2,553,880</b>        |
|                           |                           |                           |                        |                        |                         |                         |                         |
| 2,305                     | 2,265                     | 2,230                     | 2,603                  | 2,497                  | 2,495                   | 2,460                   | 2,415                   |
| 4,165                     | 4,040                     | 4,115                     | 4,172                  | 4,160                  | 4,135                   | 4,125                   | 4,115                   |
| 6,995                     | 6,920                     | 6,860                     | 6,959                  | 6,965                  | 6,835                   | 6,760                   | 6,690                   |
| 2,345                     | 2,450                     | 2,260                     | 2,668                  | 2,647                  | 2,565                   | 2,515                   | 2,460                   |
| 1,730                     | 1,750                     | 1,745                     | 1,483                  | 1,500                  | 1,505                   | 1,510                   | 1,520                   |
| 3,165                     | 3,220                     | 3,260                     | 2,333                  | 2,406                  | 2,455                   | 2,505                   | 2,565                   |
| 1,435                     | 1,470                     | 1,515                     | 850                    | 906                    | 950                     | 995                     | 1,045                   |
| <b>12,465</b>             | <b>12,405</b>             | <b>12,350</b>             | <b>11,895</b>          | <b>11,868</b>          | <b>11,785</b>           | <b>11,725</b>           | <b>11,670</b>           |
|                           |                           |                           |                        |                        |                         |                         |                         |
| 17,815                    | 17,770                    | 17,725                    | 18,911                 | 18,786                 | 18,615                  | 18,615                  | 18,620                  |
| 31,365                    | 31,335                    | 31,520                    | 29,827                 | 29,873                 | 29,980                  | 30,085                  | 30,195                  |
| 51,130                    | 51,050                    | 50,975                    | 48,157                 | 48,313                 | 48,395                  | 48,315                  | 48,235                  |
| 17,025                    | 18,000                    | 16,980                    | 17,622                 | 17,593                 | 17,685                  | 17,695                  | 17,710                  |
| 11,660                    | 11,955                    | 12,100                    | 8,922                  | 9,092                  | 9,310                   | 9,525                   | 9,740                   |
| 20,665                    | 21,295                    | 21,825                    | 14,275                 | 14,748                 | 15,270                  | 15,795                  | 16,315                  |
| 9,005                     | 9,340                     | 9,725                     | 5,353                  | 5,656                  | 5,960                   | 6,270                   | 6,575                   |
| <b>89,610</b>             | <b>90,115</b>             | <b>90,525</b>             | <b>81,343</b>          | <b>81,847</b>          | <b>82,280</b>           | <b>82,725</b>           | <b>83,170</b>           |
|                           |                           |                           |                        |                        |                         |                         |                         |
| 725                       | 710                       | 695                       | 887                    | 860                    | 825                     | 805                     | 780                     |
| 1,220                     | 1,140                     | 1,175                     | 2,032                  | 2,034                  | 1,980                   | 1,915                   | 1,860                   |
| 2,120                     | 2,050                     | 2,005                     | 3,103                  | 3,047                  | 2,970                   | 2,865                   | 2,785                   |
| 715                       | 745                       | 685                       | 894                    | 867                    | 855                     | 815                     | 780                     |
| 590                       | 580                       | 560                       | 518                    | 519                    | 510                     | 500                     | 495                     |
| 1,060                     | 1,070                     | 1,060                     | 768                    | 784                    | 785                     | 790                     | 800                     |
| 470                       | 490                       | 500                       | 250                    | 265                    | 275                     | 290                     | 305                     |
| <b>3,905</b>              | <b>3,830</b>              | <b>3,760</b>              | <b>4,758</b>           | <b>4,691</b>           | <b>4,580</b>            | <b>4,460</b>            | <b>4,365</b>            |
|                           |                           |                           |                        |                        |                         |                         |                         |
| 22,760                    | 22,835                    | 22,935                    | 23,117                 | 23,240                 | 23,290                  | 23,465                  | 23,640                  |
| 39,240                    | 39,490                    | 40,200                    | 35,282                 | 35,549                 | 35,965                  | 36,385                  | 36,800                  |
| 63,000                    | 63,430                    | 63,865                    | 56,850                 | 57,331                 | 57,840                  | 58,235                  | 58,625                  |
| 21,985                    | 23,335                    | 22,170                    | 21,808                 | 21,925                 | 22,095                  | 22,225                  | 22,355                  |
| 12,310                    | 12,535                    | 12,735                    | 9,720                  | 9,825                  | 9,995                   | 10,160                  | 10,330                  |

# MUHA EXHIBIT 02-024

ROA 005519

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 22,425         | 22,970         | 23,480         | 15,572         | 15,956         | 16,380         | 16,795         | 17,210         |
| 10,115         | 10,435         | 10,745         | 5,852          | 6,131          | 6,385          | 6,635          | 6,880          |
| <b>108,185</b> | <b>109,235</b> | <b>110,280</b> | <b>95,539</b>  | <b>96,527</b>  | <b>97,510</b>  | <b>98,495</b>  | <b>99,475</b>  |
| 1,255          | 1,215          | 1,175          | 1,415          | 1,399          | 1,460          | 1,430          | 1,400          |
| 2,240          | 2,050          | 2,120          | 2,602          | 2,613          | 2,550          | 2,480          | 2,415          |
| 3,735          | 3,615          | 3,550          | 4,171          | 4,151          | 3,955          | 3,855          | 3,755          |
| 1,325          | 1,365          | 1,240          | 1,694          | 1,692          | 1,595          | 1,545          | 1,500          |
| 1,010          | 1,015          | 990            | 795            | 815            | 820            | 830            | 840            |
| 1,890          | 1,910          | 1,910          | 1,292          | 1,316          | 1,330          | 1,350          | 1,370          |
| 880            | 895            | 920            | 497            | 501            | 510            | 520            | 530            |
| <b>6,880</b>   | <b>6,740</b>   | <b>6,635</b>   | <b>6,878</b>   | <b>6,866</b>   | <b>6,745</b>   | <b>6,635</b>   | <b>6,525</b>   |
| 2,265          | 2,220          | 2,175          | 2,595          | 2,546          | 2,490          | 2,460          | 2,430          |
| 3,525          | 3,435          | 3,420          | 3,709          | 3,595          | 3,570          | 3,550          | 3,525          |
| 5,905          | 5,770          | 5,660          | 5,940          | 5,829          | 5,755          | 5,670          | 5,580          |
| 2,165          | 2,235          | 2,070          | 2,395          | 2,355          | 2,320          | 2,285          | 2,240          |
| 1,335          | 1,355          | 1,355          | 1,082          | 1,095          | 1,095          | 1,095          | 1,095          |
| 2,340          | 2,390          | 2,415          | 1,675          | 1,694          | 1,715          | 1,750          | 1,775          |
| 1,005          | 1,035          | 1,060          | 593            | 599            | 620            | 655            | 680            |
| <b>10,510</b>  | <b>10,380</b>  | <b>10,250</b>  | <b>10,210</b>  | <b>10,069</b>  | <b>9,960</b>   | <b>9,880</b>   | <b>9,785</b>   |
| 17,040         | 16,980         | 16,940         | 17,990         | 17,798         | 18,530         | 18,555         | 18,585         |
| 31,035         | 31,270         | 31,570         | 33,025         | 32,645         | 32,930         | 33,220         | 33,500         |
| 54,040         | 54,655         | 55,215         | 50,607         | 50,600         | 50,470         | 51,060         | 51,625         |
| 16,625         | 17,765         | 16,595         | 19,005         | 18,969         | 18,825         | 18,915         | 19,000         |
| 18,600         | 19,120         | 19,620         | 13,915         | 14,113         | 14,455         | 14,795         | 15,130         |
| 32,785         | 34,140         | 35,525         | 23,071         | 24,078         | 25,165         | 26,250         | 27,330         |
| 14,185         | 15,020         | 15,905         | 9,156          | 9,965          | 10,710         | 11,455         | 12,200         |
| <b>103,865</b> | <b>105,775</b> | <b>107,680</b> | <b>91,668</b>  | <b>92,476</b>  | <b>94,165</b>  | <b>95,865</b>  | <b>97,540</b>  |
| 26,935         | 27,265         | 27,605         | 26,125         | 26,829         | 27,725         | 28,220         | 28,710         |
| 48,890         | 50,190         | 51,215         | 45,518         | 46,631         | 47,675         | 48,710         | 49,750         |
| 75,420         | 76,995         | 78,685         | 67,355         | 69,139         | 70,095         | 71,450         | 72,815         |
| 25,905         | 27,870         | 26,735         | 25,730         | 26,314         | 26,790         | 27,340         | 27,885         |
| 12,595         | 13,105         | 13,635         | 8,702          | 9,001          | 9,390          | 9,780          | 10,170         |
| 20,675         | 21,700         | 22,840         | 13,137         | 13,849         | 14,710         | 15,575         | 16,440         |
| 8,080          | 8,595          | 9,205          | 4,435          | 4,848          | 5,320          | 5,795          | 6,270          |
| <b>123,030</b> | <b>125,960</b> | <b>129,130</b> | <b>106,617</b> | <b>109,817</b> | <b>112,530</b> | <b>115,245</b> | <b>117,965</b> |
| 1,145          | 1,110          | 1,080          | 1,466          | 1,422          | 1,405          | 1,390          | 1,380          |
| 2,300          | 2,320          | 2,240          | 2,307          | 2,254          | 2,210          | 2,170          | 2,135          |
| 4,140          | 4,080          | 4,015          | 4,144          | 4,046          | 3,960          | 3,870          | 3,785          |
| 1,135          | 1,160          | 1,060          | 1,378          | 1,350          | 1,335          | 1,315          | 1,295          |

# MUHA EXHIBIT 02-025

ROA 005520

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1,130          | 1,140          | 1,140          | 942            | 926            | 925            | 925            | 925            |
| 2,125          | 2,180          | 2,235          | 1,456          | 1,475          | 1,500          | 1,530          | 1,550          |
| 995            | 1,040          | 1,095          | 514            | 549            | 575            | 605            | 625            |
| <b>7,410</b>   | <b>7,370</b>   | <b>7,330</b>   | <b>7,066</b>   | <b>6,943</b>   | <b>6,865</b>   | <b>6,790</b>   | <b>6,715</b>   |
|                |                |                |                |                |                |                |                |
| 40,640         | 40,800         | 40,855         | 40,710         | 40,728         | 41,660         | 42,005         | 42,355         |
| 89,580         | 91,220         | 91,210         | 83,989         | 84,380         | 85,515         | 86,650         | 87,790         |
| 137,635        | 138,995        | 140,215        | 125,994        | 126,338        | 127,140        | 128,515        | 129,895        |
| 39,085         | 41,925         | 39,635         | 38,706         | 38,752         | 39,205         | 39,640         | 40,080         |
| 26,510         | 27,530         | 28,335         | 18,225         | 18,906         | 19,565         | 20,230         | 20,885         |
| 44,785         | 46,665         | 48,605         | 28,015         | 29,337         | 30,745         | 32,155         | 33,560         |
| 18,275         | 19,135         | 20,270         | 9,790          | 10,431         | 11,180         | 11,925         | 12,675         |
| <b>223,060</b> | <b>226,460</b> | <b>229,675</b> | <b>194,719</b> | <b>196,403</b> | <b>199,545</b> | <b>202,675</b> | <b>205,810</b> |
|                |                |                |                |                |                |                |                |
| 6,255          | 6,220          | 6,185          | 6,810          | 6,738          | 6,795          | 6,785          | 6,780          |
| 10,920         | 10,845         | 10,945         | 10,490         | 10,440         | 10,490         | 10,540         | 10,590         |
| 17,475         | 17,450         | 17,425         | 16,764         | 16,792         | 16,705         | 16,680         | 16,650         |
| 6,115          | 6,440          | 6,050          | 6,666          | 6,622          | 6,610          | 6,595          | 6,580          |
| 3,245          | 3,290          | 3,310          | 2,693          | 2,758          | 2,790          | 2,815          | 2,840          |
| 5,835          | 5,960          | 6,055          | 4,108          | 4,259          | 4,365          | 4,470          | 4,570          |
| 2,590          | 2,670          | 2,745          | 1,415          | 1,501          | 1,575          | 1,655          | 1,730          |
| <b>29,565</b>  | <b>29,630</b>  | <b>29,665</b>  | <b>27,682</b>  | <b>27,789</b>  | <b>27,865</b>  | <b>27,935</b>  | <b>28,000</b>  |
|                |                |                |                |                |                |                |                |
| 3,330          | 3,290          | 3,255          | 3,768          | 3,706          | 3,630          | 3,600          | 3,575          |
| 5,690          | 5,600          | 5,680          | 5,495          | 5,424          | 5,430          | 5,450          | 5,460          |
| 9,430          | 9,325          | 9,245          | 9,268          | 9,167          | 9,115          | 9,055          | 8,960          |
| 3,180          | 3,330          | 3,115          | 3,469          | 3,466          | 3,455          | 3,425          | 3,395          |
| 2,080          | 2,120          | 2,120          | 1,675          | 1,680          | 1,690          | 1,705          | 1,710          |
| 3,710          | 3,785          | 3,830          | 2,598          | 2,656          | 2,705          | 2,755          | 2,795          |
| 1,630          | 1,665          | 1,710          | 923            | 976            | 1,015          | 1,050          | 1,085          |
| <b>16,470</b>  | <b>16,400</b>  | <b>16,330</b>  | <b>15,634</b>  | <b>15,529</b>  | <b>15,450</b>  | <b>15,410</b>  | <b>15,330</b>  |
|                |                |                |                |                |                |                |                |
| 4,720          | 4,670          | 4,620          | 5,167          | 5,040          | 4,990          | 4,965          | 4,950          |
| 7,845          | 7,840          | 7,770          | 8,131          | 8,050          | 7,970          | 7,900          | 7,825          |
| 13,420         | 13,305         | 13,190         | 13,569         | 13,512         | 13,390         | 13,255         | 13,105         |
| 4,510          | 4,690          | 4,405          | 4,855          | 4,800          | 4,785          | 4,735          | 4,695          |
| 2,910          | 2,940          | 2,950          | 2,347          | 2,404          | 2,445          | 2,480          | 2,515          |
| 5,100          | 5,205          | 5,290          | 3,595          | 3,707          | 3,810          | 3,900          | 4,000          |
| 2,190          | 2,265          | 2,340          | 1,248          | 1,303          | 1,365          | 1,420          | 1,485          |
| <b>23,240</b>  | <b>23,180</b>  | <b>23,100</b>  | <b>22,331</b>  | <b>22,259</b>  | <b>22,190</b>  | <b>22,120</b>  | <b>22,055</b>  |
|                |                |                |                |                |                |                |                |
| 2,830          | 2,750          | 2,685          | 3,324          | 3,284          | 3,285          | 3,230          | 3,185          |
| 5,160          | 5,050          | 5,040          | 6,271          | 6,090          | 6,035          | 5,970          | 5,915          |
| 9,100          | 8,955          | 8,830          | 9,892          | 9,674          | 9,515          | 9,400          | 9,290          |

# MUHA EXHIBIT 02-026

ROA 005521

|               |               |               |               |               |               |               |               |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 2,770         | 2,855         | 2,625         | 3,668         | 3,596         | 3,485         | 3,420         | 3,360         |
| 2,680         | 2,710         | 2,700         | 2,135         | 2,156         | 2,165         | 2,165         | 2,175         |
| 4,800         | 4,920         | 4,985         | 3,498         | 3,590         | 3,665         | 3,720         | 3,790         |
| 2,120         | 2,210         | 2,285         | 1,363         | 1,434         | 1,500         | 1,555         | 1,615         |
| <b>16,730</b> | <b>16,625</b> | <b>16,500</b> | <b>16,714</b> | <b>16,548</b> | <b>16,465</b> | <b>16,350</b> | <b>16,265</b> |
|               |               |               |               |               |               |               |               |
| 3,905         | 3,870         | 3,840         | 4,294         | 4,290         | 4,255         | 4,250         | 4,245         |
| 6,545         | 6,495         | 6,515         | 6,243         | 6,240         | 6,255         | 6,265         | 6,285         |
| 11,000        | 10,915        | 10,820        | 10,412        | 10,374        | 10,340        | 10,270        | 10,215        |
| 3,705         | 3,870         | 3,635         | 3,897         | 3,891         | 3,925         | 3,905         | 3,880         |
| 2,630         | 2,670         | 2,675         | 2,163         | 2,212         | 2,235         | 2,255         | 2,285         |
| 4,480         | 4,570         | 4,635         | 3,382         | 3,467         | 3,530         | 3,595         | 3,670         |
| 1,850         | 1,900         | 1,960         | 1,219         | 1,255         | 1,295         | 1,340         | 1,385         |
| <b>19,385</b> | <b>19,355</b> | <b>19,295</b> | <b>18,088</b> | <b>18,131</b> | <b>18,125</b> | <b>18,115</b> | <b>18,130</b> |
|               |               |               |               |               |               |               |               |
| 6,900         | 6,805         | 6,745         | 7,601         | 7,528         | 7,455         | 7,410         | 7,360         |
| 12,075        | 11,990        | 11,910        | 11,520        | 11,405        | 11,345        | 11,285        | 11,230        |
| 19,785        | 19,550        | 19,345        | 18,705        | 18,555        | 18,375        | 18,175        | 17,970        |
| 6,700         | 7,015         | 6,525         | 7,148         | 7,135         | 7,075         | 7,000         | 6,925         |
| 4,490         | 4,570         | 4,545         | 3,454         | 3,468         | 3,505         | 3,545         | 3,580         |
| 8,010         | 8,205         | 8,300         | 5,320         | 5,434         | 5,555         | 5,680         | 5,800         |
| 3,520         | 3,635         | 3,755         | 1,866         | 1,966         | 2,050         | 2,135         | 2,220         |
| <b>34,695</b> | <b>34,560</b> | <b>34,390</b> | <b>31,626</b> | <b>31,517</b> | <b>31,385</b> | <b>31,265</b> | <b>31,130</b> |
|               |               |               |               |               |               |               |               |
| 3,365         | 3,300         | 3,245         | 3,968         | 4,038         | 3,940         | 3,915         | 3,900         |
| 5,750         | 5,720         | 5,665         | 5,371         | 5,387         | 5,370         | 5,350         | 5,330         |
| 9,095         | 9,000         | 8,900         | 8,420         | 8,329         | 8,315         | 8,225         | 8,130         |
| 3,200         | 3,315         | 3,070         | 3,561         | 3,652         | 3,635         | 3,610         | 3,590         |
| 1,785         | 1,810         | 1,820         | 1,346         | 1,371         | 1,400         | 1,425         | 1,455         |
| 3,140         | 3,190         | 3,230         | 2,081         | 2,148         | 2,205         | 2,260         | 2,320         |
| 1,355         | 1,380         | 1,410         | 735           | 777           | 805           | 835           | 865           |
| <b>15,600</b> | <b>15,490</b> | <b>15,375</b> | <b>14,469</b> | <b>14,515</b> | <b>14,460</b> | <b>14,400</b> | <b>14,350</b> |
|               |               |               |               |               |               |               |               |
| 19,245        | 19,320        | 19,425        | 19,872        | 19,903        | 19,805        | 19,975        | 20,140        |
| 34,805        | 35,310        | 35,960        | 31,145        | 31,444        | 32,065        | 32,670        | 33,280        |
| 54,440        | 55,290        | 56,035        | 47,692        | 48,106        | 49,115        | 49,835        | 50,565        |
| 18,600        | 19,730        | 18,810        | 18,493        | 18,529        | 18,860        | 19,040        | 19,220        |
| 9,230         | 9,595         | 9,975         | 6,439         | 6,693         | 6,945         | 7,200         | 7,460         |
| 15,440        | 16,150        | 16,990        | 9,605         | 10,067        | 10,585        | 11,120        | 11,645        |
| 6,210         | 6,555         | 7,015         | 3,166         | 3,374         | 3,640         | 3,920         | 4,185         |
| <b>89,125</b> | <b>90,760</b> | <b>92,450</b> | <b>77,169</b> | <b>78,076</b> | <b>79,505</b> | <b>80,930</b> | <b>82,350</b> |
|               |               |               |               |               |               |               |               |
| 2,300         | 2,285         | 2,275         | 2,495         | 2,469         | 2,435         | 2,410         | 2,390         |
| 4,245         | 4,290         | 4,260         | 6,061         | 6,167         | 6,180         | 6,210         | 6,230         |

MUHA EXHIBIT 02-027

ROA 005522

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 7,325          | 7,295          | 7,270          | 9,599          | 9,709          | 9,670          | 9,650          | 9,615          |
| 2,305          | 2,415          | 2,270          | 2,681          | 2,655          | 2,625          | 2,590          | 2,555          |
| 1,705          | 1,735          | 1,750          | 1,476          | 1,488          | 1,520          | 1,545          | 1,580          |
| 3,045          | 3,120          | 3,185          | 2,291          | 2,346          | 2,425          | 2,490          | 2,575          |
| 1,340          | 1,385          | 1,435          | 815            | 858            | 905            | 945            | 995            |
| <b>12,670</b>  | <b>12,700</b>  | <b>12,730</b>  | <b>14,385</b>  | <b>14,524</b>  | <b>14,530</b>  | <b>14,550</b>  | <b>14,580</b>  |
|                |                |                |                |                |                |                |                |
| 1,870          | 1,820          | 1,780          | 2,253          | 2,228          | 2,150          | 2,110          | 2,070          |
| 3,555          | 3,530          | 3,455          | 3,534          | 3,494          | 3,450          | 3,410          | 3,370          |
| 6,460          | 6,330          | 6,195          | 6,419          | 6,257          | 6,175          | 6,050          | 5,930          |
| 1,850          | 1,910          | 1,760          | 2,171          | 2,133          | 2,090          | 2,050          | 2,000          |
| 1,805          | 1,850          | 1,865          | 1,392          | 1,458          | 1,485          | 1,515          | 1,540          |
| 2,990          | 3,065          | 3,140          | 2,112          | 2,218          | 2,285          | 2,350          | 2,410          |
| 1,185          | 1,215          | 1,275          | 720            | 760            | 800            | 835            | 870            |
| <b>11,320</b>  | <b>11,215</b>  | <b>11,115</b>  | <b>10,784</b>  | <b>10,703</b>  | <b>10,610</b>  | <b>10,510</b>  | <b>10,410</b>  |
|                |                |                |                |                |                |                |                |
| 15,580         | 15,450         | 15,295         | 16,608         | 16,360         | 16,115         | 15,990         | 15,860         |
| 26,930         | 26,815         | 26,710         | 24,671         | 24,598         | 24,550         | 24,500         | 24,440         |
| 42,875         | 42,595         | 42,350         | 38,395         | 38,245         | 38,105         | 37,850         | 37,585         |
| 15,180         | 16,005         | 14,960         | 15,694         | 15,624         | 15,445         | 15,320         | 15,190         |
| 8,385          | 8,495          | 8,500          | 6,285          | 6,386          | 6,465          | 6,540          | 6,615          |
| 14,960         | 15,295         | 15,540         | 9,575          | 9,854          | 10,115         | 10,370         | 10,615         |
| 6,575          | 6,800          | 7,040          | 3,290          | 3,468          | 3,650          | 3,830          | 4,000          |
| <b>73,415</b>  | <b>73,340</b>  | <b>73,185</b>  | <b>64,578</b>  | <b>64,459</b>  | <b>64,335</b>  | <b>64,210</b>  | <b>64,060</b>  |
|                |                |                |                |                |                |                |                |
| 5,130          | 5,050          | 4,985          | 6,013          | 5,898          | 5,795          | 5,735          | 5,680          |
| 9,160          | 9,380          | 9,065          | 8,990          | 8,941          | 8,900          | 8,860          | 8,820          |
| 17,555         | 17,460         | 17,345         | 15,702         | 15,687         | 15,610         | 15,490         | 15,370         |
| 5,070          | 5,295          | 4,915          | 5,755          | 5,693          | 5,645          | 5,565          | 5,490          |
| 6,380          | 6,525          | 6,590          | 4,849          | 4,882          | 4,955          | 5,030          | 5,100          |
| 10,795         | 11,140         | 11,430         | 7,604          | 7,875          | 8,140          | 8,405          | 8,665          |
| 4,415          | 4,615          | 4,840          | 2,755          | 2,993          | 3,185          | 3,375          | 3,565          |
| <b>33,480</b>  | <b>33,650</b>  | <b>33,760</b>  | <b>29,319</b>  | <b>29,460</b>  | <b>29,545</b>  | <b>29,630</b>  | <b>29,715</b>  |
|                |                |                |                |                |                |                |                |
| 59,640         | 60,030         | 60,435         | 59,757         | 60,209         | 60,620         | 61,200         | 61,770         |
| 109,690        | 110,740        | 113,260        | 98,312         | 99,751         | 101,550        | 103,365        | 105,165        |
| 169,335        | 171,340        | 173,420        | 151,854        | 153,510        | 155,555        | 157,440        | 159,320        |
| 58,060         | 62,140         | 59,030         | 55,727         | 56,212         | 56,855         | 57,445         | 58,020         |
| 30,140         | 31,095         | 31,920         | 21,613         | 22,275         | 23,010         | 23,755         | 24,490         |
| 53,135         | 55,045         | 57,020         | 34,164         | 35,645         | 37,210         | 38,785         | 40,355         |
| 22,995         | 23,950         | 25,100         | 12,551         | 13,370         | 14,200         | 15,030         | 15,865         |
| <b>282,110</b> | <b>286,415</b> | <b>290,875</b> | <b>245,775</b> | <b>249,364</b> | <b>253,385</b> | <b>257,425</b> | <b>261,445</b> |
|                |                |                |                |                |                |                |                |
| 8,085          | 8,075          | 8,045          | 8,089          | 8,031          | 8,045          | 8,005          | 7,970          |

# MUHA EXHIBIT 02-028

ROA 005523

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 14,150         | 13,640         | 14,175         | 12,209         | 12,168         | 12,170         | 12,175         | 12,180         |
| 21,905         | 21,830         | 21,780         | 19,346         | 19,274         | 19,140         | 19,055         | 18,960         |
| 7,970          | 8,455          | 7,960          | 7,745          | 7,762          | 7,705          | 7,670          | 7,635          |
| 4,270          | 4,345          | 4,395          | 3,220          | 3,351          | 3,410          | 3,465          | 3,525          |
| 8,135          | 8,300          | 8,455          | 5,436          | 5,644          | 5,800          | 5,950          | 6,105          |
| 3,865          | 3,955          | 4,060          | 2,216          | 2,293          | 2,390          | 2,485          | 2,580          |
| <b>38,125</b>  | <b>38,205</b>  | <b>38,280</b>  | <b>32,871</b>  | <b>32,949</b>  | <b>32,985</b>  | <b>33,010</b>  | <b>33,035</b>  |
|                |                |                |                |                |                |                |                |
| 1,865          | 1,835          | 1,810          | 2,131          | 2,106          | 2,025          | 1,995          | 1,955          |
| 3,065          | 3,055          | 2,960          | 4,061          | 4,020          | 3,975          | 3,930          | 3,880          |
| 5,090          | 4,995          | 4,915          | 6,248          | 6,190          | 6,120          | 6,000          | 5,880          |
| 1,755          | 1,810          | 1,695          | 2,067          | 2,042          | 2,005          | 1,960          | 1,910          |
| 1,155          | 1,165          | 1,150          | 1,014          | 1,002          | 1,005          | 1,005          | 1,010          |
| 2,070          | 2,100          | 2,105          | 1,582          | 1,604          | 1,635          | 1,665          | 1,700          |
| 915            | 935            | 955            | 568            | 602            | 630            | 660            | 690            |
| <b>9,025</b>   | <b>8,930</b>   | <b>8,830</b>   | <b>9,961</b>   | <b>9,900</b>   | <b>9,780</b>   | <b>9,660</b>   | <b>9,535</b>   |
|                |                |                |                |                |                |                |                |
| 32,060         | 32,415         | 32,760         | 31,083         | 31,292         | 31,905         | 32,335         | 32,755         |
| 62,940         | 65,100         | 65,535         | 55,353         | 56,289         | 57,420         | 58,565         | 59,700         |
| 115,505        | 118,350        | 121,265        | 93,327         | 95,681         | 97,825         | 100,165        | 102,490        |
| 32,125         | 34,700         | 33,085         | 29,883         | 30,360         | 31,265         | 31,825         | 32,380         |
| 37,375         | 39,640         | 42,230         | 24,263         | 25,859         | 27,730         | 29,600         | 31,470         |
| 58,525         | 62,260         | 67,055         | 36,124         | 38,837         | 42,100         | 45,365         | 48,625         |
| 21,150         | 22,620         | 24,825         | 11,861         | 12,978         | 14,370         | 15,765         | 17,155         |
| <b>206,090</b> | <b>213,025</b> | <b>221,080</b> | <b>160,534</b> | <b>165,810</b> | <b>171,830</b> | <b>177,865</b> | <b>183,870</b> |
|                |                |                |                |                |                |                |                |
| 2,810          | 2,790          | 2,775          | 2,946          | 2,992          | 2,990          | 2,985          | 2,980          |
| 4,900          | 4,970          | 4,930          | 5,774          | 5,714          | 5,705          | 5,700          | 5,695          |
| 8,725          | 8,795          | 8,825          | 9,049          | 9,064          | 9,070          | 9,085          | 9,090          |
| 2,675          | 2,840          | 2,650          | 2,790          | 2,806          | 2,845          | 2,830          | 2,820          |
| 2,660          | 2,830          | 3,010          | 1,612          | 1,708          | 1,850          | 1,995          | 2,135          |
| 4,195          | 4,490          | 4,865          | 2,391          | 2,564          | 2,820          | 3,075          | 3,320          |
| 1,535          | 1,660          | 1,855          | 779            | 856            | 970            | 1,080          | 1,185          |
| <b>15,730</b>  | <b>16,075</b>  | <b>16,465</b>  | <b>14,386</b>  | <b>14,620</b>  | <b>14,880</b>  | <b>15,145</b>  | <b>15,390</b>  |
|                |                |                |                |                |                |                |                |
| 7,295          | 7,305          | 7,330          | 7,911          | 7,817          | 7,720          | 7,745          | 7,770          |
| 12,255         | 12,410         | 12,490         | 11,208         | 11,331         | 11,460         | 11,600         | 11,735         |
| 20,310         | 20,395         | 20,470         | 18,427         | 18,516         | 18,685         | 18,745         | 18,790         |
| 6,930          | 7,325          | 6,965          | 7,314          | 7,253          | 7,275          | 7,295          | 7,315          |
| 4,315          | 4,425          | 4,480          | 3,386          | 3,432          | 3,495          | 3,565          | 3,625          |
| 7,600          | 7,815          | 8,010          | 5,170          | 5,289          | 5,445          | 5,610          | 5,765          |
| 3,285          | 3,390          | 3,530          | 1,784          | 1,857          | 1,950          | 2,045          | 2,140          |
| <b>35,205</b>  | <b>35,515</b>  | <b>35,810</b>  | <b>31,508</b>  | <b>31,622</b>  | <b>31,850</b>  | <b>32,100</b>  | <b>32,325</b>  |
|                |                |                |                |                |                |                |                |

# MUHA EXHIBIT 02-029

ROA 005524

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 11,300         | 11,580         | 11,890         | 10,270         | 10,467         | 10,705         | 11,035         | 11,360         |
| 19,100         | 20,295         | 20,350         | 16,326         | 16,631         | 17,070         | 17,510         | 17,955         |
| 31,195         | 32,045         | 33,050         | 26,170         | 26,873         | 27,610         | 28,265         | 28,925         |
| 10,515         | 11,325         | 11,145         | 8,989          | 9,235          | 9,620          | 9,945          | 10,265         |
| 7,725          | 7,975          | 8,205          | 5,371          | 5,462          | 5,625          | 5,790          | 5,950          |
| 13,810         | 14,480         | 15,220         | 8,499          | 8,927          | 9,445          | 9,975          | 10,495         |
| 6,085          | 6,505          | 7,015          | 3,128          | 3,465          | 3,820          | 4,185          | 4,545          |
| <b>56,305</b>  | <b>58,105</b>  | <b>60,160</b>  | <b>44,939</b>  | <b>46,267</b>  | <b>47,760</b>  | <b>49,275</b>  | <b>50,780</b>  |
|                |                |                |                |                |                |                |                |
| 6,945          | 6,900          | 6,855          | 7,572          | 7,499          | 7,530          | 7,515          | 7,505          |
| 12,460         | 12,310         | 12,550         | 11,925         | 11,791         | 11,800         | 11,790         | 11,795         |
| 20,345         | 20,275         | 20,210         | 19,486         | 19,343         | 19,205         | 19,090         | 18,985         |
| 6,775          | 7,140          | 6,695          | 7,408          | 7,317          | 7,255          | 7,230          | 7,200          |
| 4,035          | 4,100          | 4,150          | 3,372          | 3,465          | 3,530          | 3,595          | 3,655          |
| 7,480          | 7,635          | 7,775          | 5,336          | 5,539          | 5,685          | 5,835          | 5,980          |
| 3,445          | 3,535          | 3,625          | 1,964          | 2,074          | 2,155          | 2,240          | 2,325          |
| <b>34,770</b>  | <b>34,810</b>  | <b>34,840</b>  | <b>32,394</b>  | <b>32,381</b>  | <b>32,420</b>  | <b>32,440</b>  | <b>32,470</b>  |
|                |                |                |                |                |                |                |                |
| 1,460          | 1,415          | 1,390          | 1,818          | 1,790          | 1,755          | 1,735          | 1,705          |
| 2,655          | 2,615          | 2,565          | 3,768          | 3,807          | 3,750          | 3,695          | 3,640          |
| 4,515          | 4,430          | 4,330          | 5,635          | 5,669          | 5,535          | 5,400          | 5,270          |
| 1,405          | 1,455          | 1,320          | 1,849          | 1,884          | 1,825          | 1,800          | 1,760          |
| 1,125          | 1,145          | 1,140          | 893            | 910            | 915            | 920            | 920            |
| 1,920          | 1,955          | 1,970          | 1,326          | 1,354          | 1,370          | 1,385          | 1,400          |
| 795            | 810            | 830            | 433            | 444            | 455            | 465            | 480            |
| <b>7,895</b>   | <b>7,800</b>   | <b>7,690</b>   | <b>8,779</b>   | <b>8,813</b>   | <b>8,660</b>   | <b>8,520</b>   | <b>8,375</b>   |
|                |                |                |                |                |                |                |                |
| 33,440         | 33,565         | 33,665         | 34,636         | 34,737         | 34,600         | 34,860         | 35,140         |
| 60,225         | 61,710         | 61,860         | 54,876         | 55,616         | 56,510         | 57,400         | 58,285         |
| 96,360         | 97,285         | 98,270         | 86,999         | 88,141         | 89,480         | 90,400         | 91,320         |
| 32,370         | 34,340         | 32,730         | 32,095         | 32,453         | 32,970         | 33,295         | 33,630         |
| 17,520         | 18,105         | 18,515         | 12,936         | 13,219         | 13,610         | 14,005         | 14,400         |
| 30,575         | 31,750         | 32,850         | 19,966         | 20,676         | 21,545         | 22,415         | 23,275         |
| 13,055         | 13,645         | 14,335         | 7,030          | 7,457          | 7,935          | 8,410          | 8,875          |
| <b>160,375</b> | <b>162,600</b> | <b>164,785</b> | <b>141,601</b> | <b>143,554</b> | <b>145,625</b> | <b>147,675</b> | <b>149,735</b> |
|                |                |                |                |                |                |                |                |
| 470            | 450            | 430            | 574            | 562            | 535            | 525            | 500            |
| 855            | 850            | 805            | 1,639          | 1,558          | 1,515          | 1,470          | 1,425          |
| 1,915          | 1,855          | 1,800          | 3,063          | 2,894          | 2,810          | 2,710          | 2,610          |
| 465            | 470            | 425            | 552            | 537            | 545            | 530            | 505            |
| 1,030          | 1,020          | 1,015          | 929            | 929            | 930            | 930            | 930            |
| 1,810          | 1,840          | 1,855          | 1,551          | 1,597          | 1,630          | 1,665          | 1,705          |
| 780            | 820            | 840            | 622            | 668            | 700            | 735            | 775            |
| <b>4,195</b>   | <b>4,145</b>   | <b>4,085</b>   | <b>5,188</b>   | <b>5,053</b>   | <b>4,975</b>   | <b>4,900</b>   | <b>4,815</b>   |

MUHA EXHIBIT 02-030

ROA 005525

|               |               |               |               |               |               |               |               |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|               |               |               |               |               |               |               |               |
| 3,200         | 3,135         | 3,085         | 3,651         | 3,578         | 3,505         | 3,475         | 3,435         |
| 5,470         | 5,440         | 5,330         | 5,124         | 5,079         | 5,045         | 5,015         | 4,980         |
| 9,065         | 8,900         | 8,790         | 8,244         | 8,149         | 8,080         | 7,980         | 7,865         |
| 3,060         | 3,175         | 2,945         | 3,357         | 3,325         | 3,295         | 3,265         | 3,225         |
| 2,305         | 2,335         | 2,290         | 1,620         | 1,640         | 1,640         | 1,645         | 1,645         |
| 4,005         | 4,090         | 4,110         | 2,441         | 2,503         | 2,540         | 2,580         | 2,615         |
| 1,700         | 1,755         | 1,820         | 821           | 863           | 900           | 935           | 970           |
| <b>16,270</b> | <b>16,125</b> | <b>15,985</b> | <b>14,336</b> | <b>14,230</b> | <b>14,125</b> | <b>14,035</b> | <b>13,915</b> |
|               |               |               |               |               |               |               |               |
| 2,435         | 2,405         | 2,375         | 2,761         | 2,688         | 2,645         | 2,610         | 2,575         |
| 3,990         | 3,990         | 3,880         | 6,093         | 5,920         | 5,795         | 5,670         | 5,535         |
| 6,855         | 6,735         | 6,625         | 9,192         | 9,037         | 8,835         | 8,625         | 8,400         |
| 2,315         | 2,405         | 2,260         | 2,606         | 2,559         | 2,570         | 2,525         | 2,475         |
| 1,635         | 1,640         | 1,630         | 1,360         | 1,365         | 1,365         | 1,360         | 1,355         |
| 2,875         | 2,910         | 2,935         | 2,011         | 2,053         | 2,085         | 2,110         | 2,135         |
| 1,240         | 1,270         | 1,305         | 651           | 688           | 720           | 750           | 780           |
| <b>12,165</b> | <b>12,050</b> | <b>11,935</b> | <b>13,964</b> | <b>13,778</b> | <b>13,565</b> | <b>13,345</b> | <b>13,110</b> |
|               |               |               |               |               |               |               |               |
| 4,285         | 4,295         | 4,320         | 4,247         | 4,228         | 4,360         | 4,375         | 4,400         |
| 6,820         | 6,610         | 6,870         | 6,964         | 6,903         | 6,920         | 6,915         | 6,930         |
| 11,180        | 11,155        | 11,140        | 11,264        | 11,241        | 11,085        | 11,025        | 10,975        |
| 4,135         | 4,410         | 4,175         | 4,344         | 4,355         | 4,280         | 4,290         | 4,295         |
| 2,555         | 2,595         | 2,615         | 2,050         | 2,101         | 2,145         | 2,180         | 2,225         |
| 4,645         | 4,740         | 4,830         | 3,217         | 3,324         | 3,425         | 3,520         | 3,625         |
| 2,090         | 2,145         | 2,215         | 1,167         | 1,223         | 1,280         | 1,340         | 1,400         |
| <b>20,110</b> | <b>20,190</b> | <b>20,290</b> | <b>18,728</b> | <b>18,793</b> | <b>18,870</b> | <b>18,920</b> | <b>19,000</b> |
|               |               |               |               |               |               |               |               |
| 7,570         | 7,570         | 7,560         | 7,932         | 7,913         | 7,850         | 7,850         | 7,865         |
| 12,880        | 12,970        | 13,065        | 12,858        | 12,908        | 12,965        | 13,030        | 13,095        |
| 22,635        | 22,665        | 22,710        | 21,985        | 22,181        | 22,270        | 22,295        | 22,325        |
| 7,360         | 7,790         | 7,380         | 7,459         | 7,555         | 7,605         | 7,600         | 7,605         |
| 6,295         | 6,450         | 6,560         | 5,176         | 5,269         | 5,370         | 5,465         | 5,565         |
| 10,925        | 11,220        | 11,475        | 8,190         | 8,463         | 8,715         | 8,965         | 9,220         |
| 4,630         | 4,770         | 4,915         | 3,014         | 3,194         | 3,345         | 3,500         | 3,655         |
| <b>41,130</b> | <b>41,455</b> | <b>41,745</b> | <b>38,107</b> | <b>38,557</b> | <b>38,835</b> | <b>39,110</b> | <b>39,410</b> |
|               |               |               |               |               |               |               |               |
| 9,205         | 9,080         | 8,925         | 9,811         | 9,569         | 9,595         | 9,445         | 9,290         |
| 15,585        | 14,680        | 15,195        | 15,046        | 14,812        | 14,640        | 14,465        | 14,280        |
| 25,045        | 24,585        | 24,205        | 24,002        | 23,666        | 23,075        | 22,660        | 22,240        |
| 9,200         | 9,660         | 8,960         | 9,938         | 9,771         | 9,515         | 9,345         | 9,175         |
| 5,790         | 5,845         | 5,830         | 4,551         | 4,567         | 4,570         | 4,575         | 4,575         |
| 10,525        | 10,705        | 10,830        | 7,197         | 7,313         | 7,440         | 7,565         | 7,680         |
| 4,735         | 4,860         | 5,000         | 2,646         | 2,746         | 2,870         | 2,990         | 3,105         |

MUHA EXHIBIT 02-031

ROA 005526

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>44,775</b>  | <b>44,370</b>  | <b>43,960</b>  | <b>41,010</b>  | <b>40,548</b>  | <b>40,110</b>  | <b>39,670</b>  | <b>39,210</b>  |
|                |                |                |                |                |                |                |                |
| 13,100         | 13,195         | 13,275         | 12,077         | 12,100         | 13,500         | 13,615         | 13,725         |
| 26,200         | 24,440         | 26,445         | 28,006         | 28,217         | 28,325         | 28,425         | 28,530         |
| 38,620         | 38,620         | 38,805         | 40,584         | 40,828         | 39,555         | 39,575         | 39,600         |
| 14,635         | 16,095         | 14,790         | 16,162         | 16,184         | 15,710         | 15,750         | 15,785         |
| 6,830          | 6,965          | 7,105          | 5,565          | 5,643          | 5,760          | 5,870          | 5,985          |
| 12,645         | 12,965         | 13,290         | 9,032          | 9,286          | 9,570          | 9,850          | 10,130         |
| 5,815          | 6,000          | 6,185          | 3,467          | 3,643          | 3,810          | 3,980          | 4,145          |
| <b>64,365</b>  | <b>64,780</b>  | <b>65,370</b>  | <b>61,693</b>  | <b>62,214</b>  | <b>62,625</b>  | <b>63,040</b>  | <b>63,455</b>  |
|                |                |                |                |                |                |                |                |
| 46,560         | 46,650         | 46,760         | 44,617         | 44,831         | 47,850         | 48,085         | 48,305         |
| 99,410         | 95,500         | 100,690        | 96,562         | 96,519         | 97,050         | 97,570         | 98,085         |
| 139,740        | 140,245        | 140,820        | 133,033        | 133,040        | 130,535        | 130,815        | 131,080        |
| 50,265         | 54,905         | 50,515         | 52,892         | 53,093         | 52,215         | 52,325         | 52,425         |
| 20,665         | 21,270         | 21,575         | 14,310         | 14,775         | 15,145         | 15,520         | 15,895         |
| 34,970         | 36,130         | 37,175         | 21,567         | 22,448         | 23,315         | 24,190         | 25,060         |
| 14,305         | 14,860         | 15,600         | 7,257          | 7,673          | 8,170          | 8,670          | 9,165          |
| <b>221,270</b> | <b>223,025</b> | <b>224,755</b> | <b>199,217</b> | <b>200,319</b> | <b>201,700</b> | <b>203,090</b> | <b>204,445</b> |
|                |                |                |                |                |                |                |                |
| 2,060          | 2,050          | 2,035          | 2,327          | 2,321          | 2,315          | 2,305          | 2,285          |
| 3,255          | 3,230          | 3,220          | 3,798          | 3,825          | 3,830          | 3,835          | 3,835          |
| 5,735          | 5,710          | 5,680          | 6,239          | 6,245          | 6,235          | 6,225          | 6,210          |
| 1,925          | 2,025          | 1,910          | 2,144          | 2,143          | 2,155          | 2,140          | 2,120          |
| 1,210          | 1,225          | 1,250          | 1,069          | 1,096          | 1,125          | 1,155          | 1,180          |
| 2,410          | 2,460          | 2,520          | 1,766          | 1,850          | 1,905          | 1,970          | 2,025          |
| 1,200          | 1,235          | 1,270          | 697            | 754            | 780            | 815            | 845            |
| <b>10,205</b>  | <b>10,220</b>  | <b>10,235</b>  | <b>10,332</b>  | <b>10,416</b>  | <b>10,455</b>  | <b>10,500</b>  | <b>10,520</b>  |
|                |                |                |                |                |                |                |                |
| 36,965         | 37,265         | 37,615         | 36,185         | 36,881         | 37,075         | 37,410         | 37,745         |
| 66,435         | 66,550         | 68,930         | 58,490         | 60,140         | 61,390         | 62,635         | 63,880         |
| 102,370        | 103,625        | 104,980        | 91,181         | 93,076         | 94,545         | 95,860         | 97,185         |
| 36,090         | 38,620         | 36,765         | 34,712         | 35,343         | 35,640         | 35,915         | 36,195         |
| 18,110         | 18,565         | 18,850         | 13,718         | 13,994         | 14,260         | 14,535         | 14,805         |
| 32,195         | 33,095         | 33,950         | 21,532         | 22,231         | 22,940         | 23,660         | 24,375         |
| 14,085         | 14,530         | 15,100         | 7,814          | 8,237          | 8,680          | 9,125          | 9,570          |
| <b>171,530</b> | <b>173,985</b> | <b>176,545</b> | <b>148,898</b> | <b>152,188</b> | <b>154,560</b> | <b>156,930</b> | <b>159,305</b> |
|                |                |                |                |                |                |                |                |
| 12,005         | 11,880         | 11,740         | 13,043         | 12,770         | 12,715         | 12,620         | 12,515         |
| 20,405         | 19,945         | 20,195         | 21,031         | 21,033         | 20,940         | 20,850         | 20,755         |
| 31,365         | 31,045         | 30,750         | 31,188         | 31,100         | 30,745         | 30,420         | 30,105         |
| 11,385         | 11,955         | 11,150         | 12,415         | 12,245         | 12,155         | 12,030         | 11,890         |
| 6,230          | 6,365          | 6,410          | 4,383          | 4,458          | 4,555          | 4,650          | 4,750          |
| 11,295         | 11,570         | 11,785         | 7,110          | 7,346          | 7,535          | 7,720          | 7,910          |

MUHA EXHIBIT 02-032

ROA 005527

|                |                |                |                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 5,065          | 5,205          | 5,375          | 2,727          | 2,888          | 2,980          | 3,070          | 3,160          |
| <b>54,665</b>  | <b>54,495</b>  | <b>54,275</b>  | <b>51,341</b>  | <b>51,216</b>  | <b>50,995</b>  | <b>50,760</b>  | <b>50,530</b>  |
|                |                |                |                |                |                |                |                |
| 2,735          | 2,715          | 2,705          | 3,004          | 2,971          | 2,910          | 2,890          | 2,870          |
| 4,630          | 4,720          | 4,575          | 4,494          | 4,446          | 4,400          | 4,370          | 4,325          |
| 8,040          | 7,950          | 7,860          | 7,772          | 7,661          | 7,585          | 7,470          | 7,345          |
| 2,525          | 2,650          | 2,495          | 2,831          | 2,756          | 2,750          | 2,715          | 2,685          |
| 1,920          | 1,945          | 1,945          | 1,463          | 1,496          | 1,520          | 1,535          | 1,560          |
| 3,420          | 3,475          | 3,505          | 2,294          | 2,355          | 2,410          | 2,445          | 2,495          |
| 1,500          | 1,530          | 1,560          | 831            | 859            | 890            | 910            | 935            |
| <b>14,195</b>  | <b>14,140</b>  | <b>14,070</b>  | <b>13,070</b>  | <b>12,987</b>  | <b>12,905</b>  | <b>12,805</b>  | <b>12,710</b>  |
|                |                |                |                |                |                |                |                |
| 2,890          | 2,820          | 2,770          | 3,276          | 3,145          | 3,010          | 2,930          | 2,845          |
| 4,875          | 4,890          | 4,705          | 5,682          | 5,434          | 5,295          | 5,145          | 5,010          |
| 8,460          | 8,270          | 8,120          | 8,925          | 8,594          | 8,385          | 8,115          | 7,870          |
| 2,775          | 2,870          | 2,645          | 3,212          | 3,043          | 2,970          | 2,870          | 2,765          |
| 2,265          | 2,305          | 2,265          | 1,828          | 1,792          | 1,785          | 1,785          | 1,780          |
| 4,025          | 4,110          | 4,125          | 2,711          | 2,753          | 2,790          | 2,835          | 2,875          |
| 1,760          | 1,805          | 1,860          | 883            | 961            | 1,005          | 1,050          | 1,095          |
| <b>15,375</b>  | <b>15,200</b>  | <b>15,015</b>  | <b>14,912</b>  | <b>14,492</b>  | <b>14,185</b>  | <b>13,880</b>  | <b>13,590</b>  |
|                |                |                |                |                |                |                |                |
| 35,070         | 35,680         | 36,325         | 33,114         | 33,774         | 34,175         | 34,850         | 35,530         |
| 61,110         | 63,105         | 64,365         | 49,830         | 51,318         | 52,875         | 54,430         | 55,985         |
| 96,140         | 98,330         | 100,795        | 78,824         | 81,118         | 83,520         | 85,635         | 87,750         |
| 34,390         | 36,955         | 35,805         | 30,956         | 31,668         | 32,385         | 33,090         | 33,790         |
| 15,735         | 16,375         | 16,970         | 10,922         | 11,291         | 11,785         | 12,285         | 12,775         |
| 26,570         | 27,740         | 29,030         | 16,505         | 17,346         | 18,310         | 19,270         | 20,230         |
| 10,835         | 11,365         | 12,060         | 5,583          | 6,055          | 6,525          | 6,985          | 7,455          |
| <b>157,780</b> | <b>161,750</b> | <b>166,150</b> | <b>128,443</b> | <b>132,238</b> | <b>136,005</b> | <b>139,755</b> | <b>143,510</b> |

ROA 005528

# MUHA EXHIBIT 02-034

ROA 005529

| Projection 2022<br>Male | Projection 2023<br>Male | Projection 2024<br>Male |
|-------------------------|-------------------------|-------------------------|
| 578,350                 | 581,415                 | 584,825                 |
| 1,007,850               | 991,495                 | 1,027,275               |
| 1,538,025               | 1,548,240               | 1,559,440               |
| 562,945                 | 601,095                 | 569,050                 |
| 283,675                 | 291,110                 | 297,975                 |
| 467,800                 | 484,700                 | 501,580                 |
| 184,125                 | 193,590                 | 203,605                 |
| <b>2,584,175</b>        | <b>2,614,355</b>        | <b>2,645,845</b>        |
|                         |                         |                         |
| 2,375                   | 2,330                   | 2,295                   |
| 4,090                   | 3,890                   | 4,055                   |
| 6,605                   | 6,535                   | 6,470                   |
| 2,405                   | 2,505                   | 2,310                   |
| 1,520                   | 1,530                   | 1,520                   |
| 2,615                   | 2,670                   | 2,695                   |
| 1,095                   | 1,140                   | 1,175                   |
| <b>11,595</b>           | <b>11,535</b>           | <b>11,460</b>           |
|                         |                         |                         |
| 18,615                  | 18,620                  | 18,615                  |
| 30,300                  | 29,740                  | 30,395                  |
| 48,150                  | 48,070                  | 47,945                  |
| 17,720                  | 18,705                  | 17,730                  |
| 9,960                   | 10,175                  | 10,340                  |
| 16,845                  | 17,365                  | 17,820                  |
| 6,885                   | 7,190                   | 7,480                   |
| <b>83,610</b>           | <b>84,055</b>           | <b>84,380</b>           |
|                         |                         |                         |
| 760                     | 735                     | 720                     |
| 1,800                   | 1,805                   | 1,700                   |
| 2,680                   | 2,600                   | 2,525                   |
| 745                     | 770                     | 695                     |
| 485                     | 480                     | 460                     |
| 795                     | 805                     | 800                     |
| 310                     | 325                     | 340                     |
| <b>4,235</b>            | <b>4,140</b>            | <b>4,045</b>            |
|                         |                         |                         |
| 23,810                  | 23,985                  | 24,220                  |
| 37,210                  | 37,005                  | 38,045                  |
| 58,995                  | 59,385                  | 59,715                  |
| 22,480                  | 23,820                  | 22,790                  |
| 10,500                  | 10,665                  | 10,840                  |

# MUHA EXHIBIT 02-035

ROA 005530

|                |                |                |
|----------------|----------------|----------------|
| 17,640         | 18,050         | 18,460         |
| 7,140          | 7,385          | 7,620          |
| <b>100,445</b> | <b>101,420</b> | <b>102,395</b> |
|                |                |                |
| 1,365          | 1,335          | 1,305          |
| 2,355          | 2,095          | 2,245          |
| 3,655          | 3,560          | 3,475          |
| 1,445          | 1,510          | 1,375          |
| 850            | 855            | 850            |
| 1,390          | 1,405          | 1,415          |
| 540            | 550            | 565            |
| <b>6,410</b>   | <b>6,300</b>   | <b>6,195</b>   |
|                |                |                |
| 2,395          | 2,355          | 2,335          |
| 3,495          | 3,330          | 3,435          |
| 5,480          | 5,395          | 5,315          |
| 2,195          | 2,265          | 2,130          |
| 1,100          | 1,100          | 1,090          |
| 1,805          | 1,830          | 1,840          |
| 705            | 730            | 750            |
| <b>9,680</b>   | <b>9,580</b>   | <b>9,490</b>   |
|                |                |                |
| 18,610         | 18,635         | 18,665         |
| 33,795         | 32,140         | 34,340         |
| 52,210         | 52,785         | 53,355         |
| 19,090         | 20,670         | 19,210         |
| 15,475         | 15,815         | 16,270         |
| 28,415         | 29,500         | 30,655         |
| 12,940         | 13,685         | 14,385         |
| <b>99,235</b>  | <b>100,920</b> | <b>102,675</b> |
|                |                |                |
| 29,200         | 29,695         | 30,210         |
| 50,795         | 50,065         | 52,860         |
| 74,180         | 75,540         | 77,030         |
| 28,430         | 30,755         | 29,500         |
| 10,560         | 10,950         | 11,410         |
| 17,305         | 18,170         | 19,140         |
| 6,745          | 7,220          | 7,730          |
| <b>120,685</b> | <b>123,405</b> | <b>126,380</b> |
|                |                |                |
| 1,360          | 1,345          | 1,325          |
| 2,090          | 2,060          | 2,015          |
| 3,690          | 3,600          | 3,525          |
| 1,270          | 1,310          | 1,235          |

# MUHA EXHIBIT 02-036

ROA 005531

|                |                |                |
|----------------|----------------|----------------|
| 920            | 920            | 915            |
| 1,575          | 1,605          | 1,615          |
| 655            | 685            | 700            |
| <b>6,625</b>   | <b>6,550</b>   | <b>6,465</b>   |
|                |                |                |
| 42,705         | 43,055         | 43,300         |
| 88,920         | 89,985         | 90,630         |
| 131,275        | 132,655        | 133,975        |
| 40,510         | 43,685         | 41,300         |
| 21,550         | 22,210         | 22,785         |
| 34,975         | 36,385         | 37,780         |
| 13,425         | 14,175         | 14,995         |
| <b>208,955</b> | <b>212,095</b> | <b>215,055</b> |
|                |                |                |
| 6,770          | 6,765          | 6,740          |
| 10,640         | 10,245         | 10,730         |
| 16,640         | 16,605         | 16,580         |
| 6,565          | 6,905          | 6,535          |
| 2,870          | 2,895          | 2,920          |
| 4,680          | 4,780          | 4,870          |
| 1,810          | 1,885          | 1,950          |
| <b>28,090</b>  | <b>28,150</b>  | <b>28,190</b>  |
|                |                |                |
| 3,540          | 3,510          | 3,480          |
| 5,470          | 5,230          | 5,450          |
| 8,885          | 8,790          | 8,710          |
| 3,365          | 3,505          | 3,295          |
| 1,725          | 1,735          | 1,735          |
| 2,850          | 2,895          | 2,920          |
| 1,125          | 1,160          | 1,185          |
| <b>15,275</b>  | <b>15,195</b>  | <b>15,110</b>  |
|                |                |                |
| 4,925          | 4,905          | 4,895          |
| 7,755          | 7,655          | 7,610          |
| 12,965         | 12,815         | 12,660         |
| 4,640          | 4,845          | 4,580          |
| 2,555          | 2,590          | 2,605          |
| 4,095          | 4,195          | 4,265          |
| 1,540          | 1,605          | 1,660          |
| <b>21,985</b>  | <b>21,915</b>  | <b>21,820</b>  |
|                |                |                |
| 3,140          | 3,095          | 3,050          |
| 5,850          | 5,520          | 5,730          |
| 9,175          | 9,060          | 8,945          |

# MUHA EXHIBIT 02-037

ROA 005532

|               |               |               |
|---------------|---------------|---------------|
| 3,305         | 3,500         | 3,200         |
| 2,180         | 2,190         | 2,185         |
| 3,860         | 3,935         | 3,985         |
| 1,680         | 1,745         | 1,800         |
| <b>16,175</b> | <b>16,090</b> | <b>15,980</b> |
|               |               |               |
| 4,240         | 4,230         | 4,230         |
| 6,300         | 6,170         | 6,320         |
| 10,155        | 10,090        | 10,035        |
| 3,860         | 4,035         | 3,835         |
| 2,305         | 2,330         | 2,335         |
| 3,735         | 3,800         | 3,845         |
| 1,430         | 1,470         | 1,510         |
| <b>18,130</b> | <b>18,120</b> | <b>18,110</b> |
|               |               |               |
| 7,325         | 7,275         | 7,255         |
| 11,165        | 10,825        | 11,035        |
| 17,755        | 17,545        | 17,370        |
| 6,855         | 7,165         | 6,745         |
| 3,620         | 3,660         | 3,635         |
| 5,920         | 6,045         | 6,090         |
| 2,300         | 2,385         | 2,455         |
| <b>31,000</b> | <b>30,865</b> | <b>30,715</b> |
|               |               |               |
| 3,875         | 3,850         | 3,825         |
| 5,310         | 4,990         | 5,265         |
| 8,040         | 7,950         | 7,875         |
| 3,565         | 3,720         | 3,515         |
| 1,485         | 1,510         | 1,500         |
| 2,375         | 2,430         | 2,455         |
| 890           | 920           | 955           |
| <b>14,290</b> | <b>14,230</b> | <b>14,155</b> |
|               |               |               |
| 20,310        | 20,475        | 20,655        |
| 33,890        | 33,840        | 35,025        |
| 51,295        | 52,040        | 52,710        |
| 19,410        | 20,565        | 19,755        |
| 7,710         | 7,965         | 8,260         |
| 12,170        | 12,690        | 13,295        |
| 4,460         | 4,725         | 5,035         |
| <b>83,775</b> | <b>85,205</b> | <b>86,660</b> |
|               |               |               |
| 2,360         | 2,335         | 2,325         |
| 6,245         | 6,400         | 6,260         |

# MUHA EXHIBIT 02-038

ROA 005533

|                |                |                |
|----------------|----------------|----------------|
| 9,570          | 9,540          | 9,520          |
| 2,510          | 2,665          | 2,455          |
| 1,610          | 1,640          | 1,640          |
| 2,650          | 2,725          | 2,770          |
| 1,040          | 1,085          | 1,130          |
| <b>14,580</b>  | <b>14,600</b>  | <b>14,615</b>  |
|                |                |                |
| 2,030          | 1,990          | 1,960          |
| 3,320          | 3,245          | 3,245          |
| 5,800          | 5,680          | 5,580          |
| 1,950          | 2,010          | 1,870          |
| 1,570          | 1,595          | 1,585          |
| 2,475          | 2,540          | 2,575          |
| 905            | 945            | 990            |
| <b>10,305</b>  | <b>10,210</b>  | <b>10,115</b>  |
|                |                |                |
| 15,740         | 15,610         | 15,465         |
| 24,390         | 23,560         | 24,235         |
| 37,330         | 37,065         | 36,855         |
| 15,065         | 15,770         | 14,805         |
| 6,690          | 6,765          | 6,745          |
| 10,870         | 11,125         | 11,270         |
| 4,180          | 4,360          | 4,525          |
| <b>63,940</b>  | <b>63,800</b>  | <b>63,590</b>  |
|                |                |                |
| 5,615          | 5,555          | 5,525          |
| 8,785          | 8,560          | 8,690          |
| 15,255         | 15,135         | 15,005         |
| 5,405          | 5,630          | 5,270          |
| 5,175          | 5,250          | 5,255          |
| 8,930          | 9,200          | 9,380          |
| 3,755          | 3,950          | 4,125          |
| <b>29,800</b>  | <b>29,890</b>  | <b>29,910</b>  |
|                |                |                |
| 62,355         | 62,935         | 63,580         |
| 106,975        | 106,905        | 110,470        |
| 161,190        | 163,070        | 165,010        |
| 58,610         | 62,540         | 59,735         |
| 25,230         | 25,965         | 26,615         |
| 41,920         | 43,485         | 45,020         |
| 16,690         | 17,520         | 18,405         |
| <b>265,465</b> | <b>269,490</b> | <b>273,610</b> |
|                |                |                |
| 7,950          | 7,910          | 7,865          |

# MUHA EXHIBIT 02-039

ROA 005534

|                |                |                |
|----------------|----------------|----------------|
| 12,180         | 11,600         | 12,145         |
| 18,865         | 18,770         | 18,675         |
| 7,605          | 7,990          | 7,525          |
| 3,585          | 3,640          | 3,680          |
| 6,260          | 6,415          | 6,545          |
| 2,675          | 2,775          | 2,865          |
| <b>33,075</b>  | <b>33,095</b>  | <b>33,085</b>  |
|                |                |                |
| 1,915          | 1,875          | 1,835          |
| 3,835          | 3,700          | 3,730          |
| 5,770          | 5,655          | 5,555          |
| 1,855          | 1,915          | 1,770          |
| 1,010          | 1,015          | 1,010          |
| 1,730          | 1,765          | 1,785          |
| 720            | 750            | 775            |
| <b>9,415</b>   | <b>9,295</b>   | <b>9,175</b>   |
|                |                |                |
| 33,180         | 33,605         | 34,025         |
| 60,830         | 61,690         | 63,110         |
| 104,830        | 107,155        | 109,490        |
| 32,935         | 35,475         | 33,945         |
| 33,335         | 35,205         | 37,350         |
| 51,880         | 55,145         | 59,285         |
| 18,545         | 19,940         | 21,935         |
| <b>189,890</b> | <b>195,905</b> | <b>202,800</b> |
|                |                |                |
| 2,975          | 2,975          | 2,980          |
| 5,690          | 5,665          | 5,650          |
| 9,105          | 9,110          | 9,080          |
| 2,805          | 2,985          | 2,790          |
| 2,275          | 2,415          | 2,565          |
| 3,570          | 3,825          | 4,150          |
| 1,295          | 1,410          | 1,585          |
| <b>15,650</b>  | <b>15,910</b>  | <b>16,210</b>  |
|                |                |                |
| 7,790          | 7,810          | 7,835          |
| 11,860         | 11,695         | 12,090         |
| 18,840         | 18,900         | 18,980         |
| 7,330          | 7,695          | 7,355          |
| 3,695          | 3,755          | 3,790          |
| 5,925          | 6,080          | 6,205          |
| 2,230          | 2,325          | 2,415          |
| <b>32,555</b>  | <b>32,790</b>  | <b>33,020</b>  |
|                |                |                |

# MUHA EXHIBIT 02-040

ROA 005535

|                |                |                |
|----------------|----------------|----------------|
| 11,695         | 12,020         | 12,390         |
| 18,400         | 19,375         | 19,330         |
| 29,580         | 30,235         | 30,995         |
| 10,595         | 11,410         | 11,275         |
| 6,115          | 6,275          | 6,435          |
| 11,020         | 11,540         | 12,100         |
| 4,905          | 5,265          | 5,665          |
| <b>52,295</b>  | <b>53,795</b>  | <b>55,485</b>  |
|                |                |                |
| 7,495          | 7,480          | 7,465          |
| 11,800         | 11,485         | 11,850         |
| 18,890         | 18,795         | 18,710         |
| 7,180          | 7,555          | 7,145          |
| 3,720          | 3,780          | 3,800          |
| 6,125          | 6,270          | 6,380          |
| 2,405          | 2,490          | 2,580          |
| <b>32,510</b>  | <b>32,545</b>  | <b>32,555</b>  |
|                |                |                |
| 1,680          | 1,650          | 1,625          |
| 3,585          | 3,455          | 3,460          |
| 5,135          | 5,005          | 4,910          |
| 1,730          | 1,830          | 1,665          |
| 930            | 930            | 905            |
| 1,425          | 1,435          | 1,425          |
| 495            | 505            | 520            |
| <b>8,240</b>   | <b>8,090</b>   | <b>7,960</b>   |
|                |                |                |
| 35,410         | 35,685         | 35,925         |
| 59,180         | 59,430         | 60,895         |
| 92,250         | 93,170         | 94,115         |
| 33,965         | 36,065         | 34,545         |
| 14,795         | 15,190         | 15,545         |
| 24,145         | 25,015         | 25,835         |
| 9,350          | 9,825          | 10,290         |
| <b>151,805</b> | <b>153,870</b> | <b>155,875</b> |
|                |                |                |
| 485            | 470            | 455            |
| 1,385          | 1,400          | 1,295          |
| 2,520          | 2,425          | 2,345          |
| 490            | 500            | 455            |
| 935            | 935            | 930            |
| 1,740          | 1,775          | 1,790          |
| 805            | 840            | 860            |
| <b>4,745</b>   | <b>4,670</b>   | <b>4,590</b>   |

# MUHA EXHIBIT 02-041

ROA 005536

|               |               |               |
|---------------|---------------|---------------|
|               |               |               |
| 3,395         | 3,360         | 3,325         |
| 4,945         | 4,710         | 4,855         |
| 7,770         | 7,660         | 7,575         |
| 3,180         | 3,305         | 3,110         |
| 1,645         | 1,645         | 1,610         |
| 2,650         | 2,685         | 2,680         |
| 1,005         | 1,040         | 1,070         |
| <b>13,815</b> | <b>13,705</b> | <b>13,580</b> |
|               |               |               |
| 2,545         | 2,510         | 2,485         |
| 5,420         | 5,330         | 5,160         |
| 8,200         | 7,975         | 7,775         |
| 2,435         | 2,540         | 2,360         |
| 1,355         | 1,355         | 1,355         |
| 2,160         | 2,195         | 2,215         |
| 805           | 840           | 860           |
| <b>12,905</b> | <b>12,680</b> | <b>12,475</b> |
|               |               |               |
| 4,420         | 4,440         | 4,470         |
| 6,935         | 6,585         | 6,970         |
| 10,920        | 10,875        | 10,835        |
| 4,305         | 4,585         | 4,340         |
| 2,260         | 2,305         | 2,325         |
| 3,715         | 3,815         | 3,880         |
| 1,455         | 1,510         | 1,555         |
| <b>19,055</b> | <b>19,130</b> | <b>19,185</b> |
|               |               |               |
| 7,870         | 7,870         | 7,870         |
| 13,150        | 13,095        | 13,280        |
| 22,335        | 22,370        | 22,390        |
| 7,605         | 8,035         | 7,600         |
| 5,665         | 5,765         | 5,865         |
| 9,475         | 9,730         | 9,955         |
| 3,810         | 3,965         | 4,090         |
| <b>39,680</b> | <b>39,970</b> | <b>40,215</b> |
|               |               |               |
| 9,135         | 8,985         | 8,810         |
| 14,115        | 12,840        | 13,730        |
| 21,835        | 21,410        | 21,045        |
| 9,000         | 9,370         | 8,685         |
| 4,585         | 4,585         | 4,575         |
| 7,815         | 7,935         | 8,000         |
| 3,230         | 3,350         | 3,425         |

# MUHA EXHIBIT 02-042

ROA 005537

|                |                |                |
|----------------|----------------|----------------|
| <b>38,785</b>  | <b>38,330</b>  | <b>37,855</b>  |
|                |                |                |
| 13,835         | 13,945         | 14,035         |
| 28,640         | 26,185         | 28,940         |
| 39,625         | 39,645         | 39,800         |
| 15,820         | 17,485         | 15,965         |
| 6,100          | 6,215          | 6,345          |
| 10,420         | 10,700         | 10,955         |
| 4,320          | 4,485          | 4,610          |
| <b>63,880</b>  | <b>64,290</b>  | <b>64,790</b>  |
|                |                |                |
| 48,540         | 48,770         | 49,045         |
| 98,615         | 91,950         | 99,505         |
| 131,375        | 131,640        | 131,980        |
| 52,540         | 57,575         | 52,900         |
| 16,265         | 16,640         | 16,880         |
| 25,930         | 26,805         | 27,535         |
| 9,665          | 10,165         | 10,655         |
| <b>205,845</b> | <b>207,215</b> | <b>208,560</b> |
|                |                |                |
| 2,280          | 2,270          | 2,255          |
| 3,850          | 3,830          | 3,845          |
| 6,215          | 6,195          | 6,180          |
| 2,110          | 2,220          | 2,085          |
| 1,215          | 1,240          | 1,260          |
| 2,090          | 2,145          | 2,195          |
| 875            | 905            | 935            |
| <b>10,585</b>  | <b>10,610</b>  | <b>10,630</b>  |
|                |                |                |
| 38,075         | 38,410         | 38,840         |
| 65,130         | 64,630         | 67,630         |
| 98,510         | 99,840         | 101,155        |
| 36,465         | 38,865         | 37,075         |
| 15,075         | 15,345         | 15,650         |
| 25,085         | 25,800         | 26,510         |
| 10,010         | 10,455         | 10,860         |
| <b>161,670</b> | <b>164,050</b> | <b>166,505</b> |
|                |                |                |
| 12,425         | 12,335         | 12,235         |
| 20,660         | 19,690         | 20,420         |
| 29,775         | 29,460         | 29,120         |
| 11,770         | 12,470         | 11,560         |
| 4,840          | 4,940          | 5,000          |
| 8,095          | 8,285          | 8,445          |

# MUHA EXHIBIT 02-043

ROA 005538

|                |                |                |
|----------------|----------------|----------------|
| 3,255          | 3,345          | 3,445          |
| <b>50,295</b>  | <b>50,080</b>  | <b>49,800</b>  |
|                |                |                |
| 2,855          | 2,840          | 2,830          |
| 4,285          | 4,155          | 4,210          |
| 7,225          | 7,095          | 6,995          |
| 2,655          | 2,755          | 2,610          |
| 1,580          | 1,605          | 1,605          |
| 2,545          | 2,595          | 2,620          |
| 965            | 990            | 1,015          |
| <b>12,625</b>  | <b>12,530</b>  | <b>12,445</b>  |
|                |                |                |
| 2,765          | 2,685          | 2,630          |
| 4,865          | 4,645          | 4,595          |
| 7,600          | 7,350          | 7,135          |
| 2,670          | 2,730          | 2,500          |
| 1,780          | 1,775          | 1,730          |
| 2,920          | 2,960          | 2,960          |
| 1,140          | 1,185          | 1,230          |
| <b>13,285</b>  | <b>12,995</b>  | <b>12,725</b>  |
|                |                |                |
| 36,215         | 36,895         | 37,620         |
| 57,550         | 59,095         | 60,795         |
| 89,880         | 91,995         | 94,415         |
| 34,505         | 36,890         | 35,920         |
| 13,270         | 13,765         | 14,270         |
| 21,190         | 22,155         | 23,170         |
| 7,920          | 8,390          | 8,900          |
| <b>147,285</b> | <b>151,045</b> | <b>155,205</b> |

**Sources:** Population estimates for 2017 and 2018 were calculated using the Vintage 2018 Bridged-Race Postcensal Estimates produced by the Population Estimates Program of the U.S. Census Bureau in collaboration with National Center for Health Statistics. Estimates for 2017 and 2018 from previous or future releases of the postcensal estimates will vary slightly from the 2017 and 2018 data in this table.

Population Projections for 2019 through 2024 were calculated by the S.C. Revenue and Fiscal Affairs Health and Demographics Section. Births and deaths data used in the population projections calculations was supplied by the SC DHEC Division of Biostatistics.

**Note:** The projections included in this report were calculated using the cohort-component model of demographic change. This model uses a base population distributed by age and sex at a beginning date, applies assumed survival rates, age-specific fertility rates, and net migration by age and sex to calculate population projections.

These projections offer only one possible scenario of future population change using the most current data available. The overall accuracy of the projections depends on the extent to which future events unfold in a manner that reflects previous trends observed within each group. The model cannot account for unprecedented events that may significantly alter an area's demographic composition in the future. These possible events include large factory openings or closings, changes in technology, public health crises, environmental events, changes in the economy, or other conditions that could affect birth rates, death rates, or domestic and international migration. This means that population projections are likely to be more accurate in the immediate future than in distant years into the future.

**Projected Redirection Percent from MUHA Downtown to MUHA Berkeley**  
*Corrected Redirection for Secondary and Tertiary Market Areas*  
*Sourced from CON Application, Appendix N*

| ZIP Code | County            | Market Area | Tri-County Sub Areas | % Shift |
|----------|-------------------|-------------|----------------------|---------|
| 29429    | Charleston County | Tri-County  | East Cooper          | 30%     |
| 29450    | Berkeley County   | Tri-County  | East Cooper          | 30%     |
| 29451    | Charleston County | Tri-County  | East Cooper          | 10%     |
| 29453    | Berkeley County   | Tri-County  | East Cooper          | 10%     |
| 29464    | Charleston County | Tri-County  | East Cooper          | 35%     |
| 29465    | Charleston County | Tri-County  | East Cooper          | 30%     |
| 29466    | Charleston County | Tri-County  | East Cooper          | 30%     |
| 29482    | Charleston County | Tri-County  | East Cooper          | 30%     |
| 29492    | Berkeley County   | Tri-County  | East Cooper          | 30%     |
| 29430    | Berkeley County   | Tri-County  | Moncks Corner        | 30%     |
| 29431    | Berkeley County   | Tri-County  | Moncks Corner        | 30%     |
| 29434    | Berkeley County   | Tri-County  | Moncks Corner        | 30%     |
| 29436    | Berkeley County   | Tri-County  | Moncks Corner        | 30%     |
| 29461    | Berkeley County   | Tri-County  | Moncks Corner        | 35%     |
| 29468    | Berkeley County   | Tri-County  | Moncks Corner        | 10%     |
| 29469    | Berkeley County   | Tri-County  | Moncks Corner        | 35%     |
| 29476    | Berkeley County   | Tri-County  | Moncks Corner        | 30%     |
| 29479    | Berkeley County   | Tri-County  | Moncks Corner        | 30%     |
| 29404    | Charleston County | Tri-County  | North Charleston     | 35%     |
| 29405    | Charleston County | Tri-County  | North Charleston     | 35%     |
| 29406    | Charleston County | Tri-County  | North Charleston     | 55%     |
| 29410    | Berkeley County   | Tri-County  | North Charleston     | 55%     |
| 29415    | Charleston County | Tri-County  | North Charleston     | 55%     |
| 29418    | Charleston County | Tri-County  | North Charleston     | 55%     |
| 29419    | Charleston County | Tri-County  | North Charleston     | 55%     |
| 29420    | Dorchester County | Tri-County  | North Charleston     | 35%     |
| 29423    | Charleston County | Tri-County  | North Charleston     | 65%     |
| 29445    | Berkeley County   | Tri-County  | North Charleston     | 35%     |
| 29456    | Dorchester County | Tri-County  | North Charleston     | 65%     |
| 29401    | Charleston County | Tri-County  | Peninsula Charleston | 35%     |
| 29402    | Charleston County | Tri-County  | Peninsula Charleston | 30%     |
| 29403    | Charleston County | Tri-County  | Peninsula Charleston | 35%     |
| 29409    | Charleston County | Tri-County  | Peninsula Charleston | 35%     |
| 29413    | Charleston County | Tri-County  | Peninsula Charleston | 35%     |
| 29424    | Charleston County | Tri-County  | Peninsula Charleston | 35%     |
| 29425    | Charleston County | Tri-County  | Peninsula Charleston | 35%     |
| 29412    | Charleston County | Tri-County  | Sea Islands          | 30%     |
| 29422    | Charleston County | Tri-County  | Sea Islands          | 30%     |
| 29438    | Charleston County | Tri-County  | Sea Islands          | 10%     |
| 29439    | Charleston County | Tri-County  | Sea Islands          | 30%     |
| 29455    | Charleston County | Tri-County  | Sea Islands          | 30%     |
| 29457    | Charleston County | Tri-County  | Sea Islands          | 30%     |
| 29487    | Charleston County | Tri-County  | Sea Islands          | 10%     |
| 29437    | Dorchester County | Tri-County  | Summerville          | 35%     |
| 29447    | Dorchester County | Tri-County  | Summerville          | 30%     |

| ZIP Code | County              | Market Area | Tri-County Sub Areas | % Shift |
|----------|---------------------|-------------|----------------------|---------|
| 29448    | Dorchester County   | Tri-County  | Summerville          | 55%     |
| 29471    | Dorchester County   | Tri-County  | Summerville          | 30%     |
| 29472    | Dorchester County   | Tri-County  | Summerville          | 35%     |
| 29477    | Dorchester County   | Tri-County  | Summerville          | 35%     |
| 29483    | Dorchester County   | Tri-County  | Summerville          | 65%     |
| 29484    | Dorchester County   | Tri-County  | Summerville          | 55%     |
| 29485    | Dorchester County   | Tri-County  | Summerville          | 55%     |
| 29486    | Berkeley County     | Tri-County  | Summerville          | 65%     |
| 29407    | Charleston County   | Tri-County  | West Ashley          | 35%     |
| 29414    | Charleston County   | Tri-County  | West Ashley          | 35%     |
| 29416    | Charleston County   | Tri-County  | West Ashley          | 55%     |
| 29417    | Charleston County   | Tri-County  | West Ashley          | 35%     |
| 29426    | Charleston County   | Tri-County  | West Ashley          | 30%     |
| 29449    | Charleston County   | Tri-County  | West Ashley          | 10%     |
| 29470    | Charleston County   | Tri-County  | West Ashley          | 35%     |
| 29001    | Clarendon County    | Tertiary    | Outside Tri-County   | 2%      |
| 29030    | Calhoun County      | Tertiary    | Outside Tri-County   | 2%      |
| 29041    | Clarendon County    | Tertiary    | Outside Tri-County   | 2%      |
| 29051    | Clarendon County    | Tertiary    | Outside Tri-County   | 2%      |
| 29056    | Williamsburg County | Tertiary    | Outside Tri-County   | 2%      |
| 29102    | Clarendon County    | Tertiary    | Outside Tri-County   | 2%      |
| 29125    | Sumter County       | Tertiary    | Outside Tri-County   | 2%      |
| 29135    | Calhoun County      | Tertiary    | Outside Tri-County   | 2%      |
| 29148    | Clarendon County    | Tertiary    | Outside Tri-County   | 2%      |
| 29564    | Williamsburg County | Tertiary    | Outside Tri-County   | 2%      |
| 29590    | Williamsburg County | Tertiary    | Outside Tri-County   | 2%      |
| 29018    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29038    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29039    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29047    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29048    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29059    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29115    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29116    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29117    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29118    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29133    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29142    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29163    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29432    | Orangeburg County   | Secondary   | Outside Tri-County   | 2%      |
| 29433    | Colleton County     | Secondary   | Outside Tri-County   | 2%      |
| 29435    | Colleton County     | Secondary   | Outside Tri-County   | 2%      |
| 29446    | Colleton County     | Secondary   | Outside Tri-County   | 2%      |
| 29452    | Colleton County     | Secondary   | Outside Tri-County   | 2%      |
| 29474    | Colleton County     | Secondary   | Outside Tri-County   | 2%      |
| 29475    | Colleton County     | Secondary   | Outside Tri-County   | 2%      |
| 29481    | Colleton County     | Secondary   | Outside Tri-County   | 2%      |
| 29488    | Colleton County     | Secondary   | Outside Tri-County   | 2%      |
| 29493    | Colleton County     | Secondary   | Outside Tri-County   | 2%      |

Source: MUHA Internal Data. MUSC\_RFP\_002370. Original redirection percentages appeared on DHEC CON Record 000424-000426.

THE STATE OF SOUTH CAROLINA  
In the Court of Appeals

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**RECEIVED**  
**Apr 29 2021**  
**SC Court of Appeals**

APPEAL FROM THE ADMINISTRATIVE LAW COURT

The Honorable Ralph King Anderson, III  
Chief Administrative Law Judge

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APPELLATE CASE NO. 2020-001323

ADMINISTRATIVE LAW COURT CASE NO.: 18-ALJ-07-0358-CC  
ADMINISTRATIVE LAW COURT CASE NO.: 18-ALJ-07-0360-CC  
ADMINISTRATIVE LAW COURT CASE NO.: 18-ALJ-07-0366-CC

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CareAlliance Health Services, d/b/a Roper St. Francis Healthcare,  
Roper Hospital, Inc., Bon Secours-St. Francis Xavier Hospital, Inc.,  
Roper St. Francis Berkeley Hospital and Roper Mount Pleasant  
Hospital,.....Respondent,

v.

South Carolina Department of Health and Environmental Control and  
Medical University Hospital Authority, d/b/a MUHA Community Hospital,.....Respondents,

AND

Walterboro Community Hospital, Inc., d/b/a Colleton Medical Center,.....Appellant,

v.

South Carolina Department of Health and Environmental Control and  
Medical University Hospital Authority, d/b/a MUHA Community Hospital,.....Respondents,

AND

Trident Medical Center, LLC d/b/a Trident Medical Center  
and Summerville Medical Center,.....Appellants,

v.

South Carolina Department of Health and Environmental Control and  
Medical University Hospital Authority, d/b/a MUHA Community Hospital,.....Respondents.

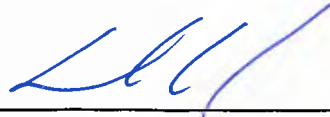
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**CERTIFICATE OF COUNSEL**

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**ROA 005542**

The undersigned hereby certifies that the Record on Appeal contains all material proposed to be included by any of the parties and not any other material.



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Columbia, South Carolina  
April 14, 2021