

Technology and Equipment Committee Report

**Magnetic Resonance Imaging
(MRI)
Material**

For the Proposed 2009 SMFP

**For the
N.C. State Health Coordinating Council Meeting**

On

May 28, 2008

**Need Determination
Related to MRI Scanners
Using the Present Methodology**

Table 9O reflects the MRI service areas and the calculations for determining need. Table 9Q indicates the service areas where need determinations are shown for the proposed 2009 State Medical Facilities Plan (SMFP).

These tables reflect the first run of data as entered in the database. As in past years, staff will continue to refine these tables with corrected data.

Table 90: MRI Procedures by MRI Service Areas - All Fixed and Mobile Procedures - 2009 SMFP - TOTALS withered & % Mobile Equivalents

MRI Service Area	Facility	Fixed MRI	Fixed Equivalent Magnets	Total		Qupt MRI	Contrast MRI	No Contrast MRI	Total MRI	Inpt Adjust	Contrast Adjust	Adjusted Total	Area Average Procedures	Threshold	MRI Need
				MRI	Magnets										
Almanance	Atlantic Diagnostic - Alliance Imaging served	41	0.28	1,185	23	1164	406	779	1,185	9	162	1,357	1357	4118	0
Almanance	Almanance Regional Medical Center	2	2.00	6,640	1,097	5,543	2,795	3,895	6,640	438.8	1,102.0	8181	8181	4118	0
Almanance	Burlington Imaging	41	0.00	-	-	-	-	-	-	0	-	0	0	4118	0
Almanance	12 Assigned Equivalency % for New mobile scanner	41	0.87	7825	-	-	-	-	7825	-	-	9537	3225	4118	0
Almanance	Total	2	2.96	-	-	-	-	-	-	-	-	-	-	4118	0
Alexander	8 Assigned Equivalency % for New mobile scanner	41	0.50	-	-	-	-	-	-	-	-	-	-	4118	0
Alexander	Erie Reg Medical Ctr - Alexander	41	0.00	-	-	-	-	-	-	0	0	0	0	1716	0
Allegheny	Allegheny Memorial	41	0.08	140	6	134	6	134	140	2	2	145	145	1716	0
Anson	9 Anson Community Hospital - CIS Mobile	41	0.08	140	-	-	-	-	-	-	-	-	-	1716	0
Anson	Total	41	0.28	-	-	-	-	-	-	-	-	-	-	1716	0
Ashle	6 Assigned Equivalency % for New mobile scanner	41	1.00	-	-	-	-	-	-	-	-	-	-	1716	0
Ashle	2008 SMFP Need Determination	41	0.64	1,104	78	1,026	370	734	1,104	31.2	148.0	1283	1283	1716	0
Ashle	Ashle Memorial Hospital	41	1.83	1104	-	-	-	-	1104	-	-	1283	1283	1716	0
Ashle	Total	41	0.36	615	34	581	52	563	615	13.6	20.8	649	649	1716	0
Avery	Charles A Cannon	41	-	-	-	-	-	-	-	-	-	-	-	1716	0
Hyde	No Hospital	1	1.00	2,301	139	2,162	724	1,577	2,301	55.8	289.8	2646	2646	3775	0
Beaufort	Beaufort County Hospital (CPT)	41	0.20	342	25	317	-	-	342	10	0	10	10	3775	0
Beaufort	Pungo District Hospital	1	1.20	2,643	-	-	-	-	2,643	-	-	2,646	2,646	3775	0
Beaufort	Total	41	0.14	418	34	384	80	398	418	13.6	32.0	484	484	1716	0
Berrie	11 Assigned Equivalency % for New mobile scanner	41	0.24	-	-	-	-	-	-	-	-	-	-	1716	0
Berrie	Berrie Memorial Hospital (CPT)	41	0.38	418	-	-	-	-	418	-	-	464	464	1716	0
Berrie	Total	41	0.43	744	40	784	260	484	744	16.0	104.0	854	854	1716	0
Bladen	3 Bladen County Hospital - Wakefield Mobile	41	1.00	2,114	303	1,811	488	1,628	2,114	121.2	195.2	2430	2430	3775	0
Brunswick	Brunswick Community Hospital	41	0.29	1,083	41	1,042	326	757	1,083	18.4	130.4	1290	1290	3775	0
Brunswick	J.Arthur Dasher Memorial	41	0.05	206	1	205	65	151	206	0.4	22.0	228	228	3775	0
Brunswick	RHHS - Atlantic Diagnostic	41	0.15	-	-	-	-	-	-	-	-	-	-	3775	0
Brunswick	3 Assigned Equivalency % for New mobile scanner	1	1.49	3403	-	-	-	-	3403	-	-	3899	3899	3775	0
Brunswick	Total	1	1.49	3403	-	-	-	-	3403	-	-	3899	3899	3775	0
Madison															
Yancey															
Burcombe	Ashville MRI	2	2.00	11,737	0	11,737	3,925	7,812	11,737	0	1,579.0	13,307	13,307	4118	0
Burcombe	Ashville Open MRI MedQuest (0-1)	2	2.00	8,734	0	8,734	10,300	7,704	8,734	0	412.0	9146	9146	4118	0
Burcombe	INSight Health Corporation - Ashville Ortho	1	1.00	1,803	0	1,803	82	1,521	1,803	0	32.8	1,836	1,836	4118	0
Burcombe	Mountain Neurological Center (CPT)	1	1.00	3,013	0	3,013	1,483	1,530	3,013	0	583.2	3,606	3,606	4118	0
Burcombe	SKYland MRI	1	1.00	976	0	976	194	822	976	0	81.6	1,038	1,038	4118	0
Burcombe	Ashville Imaging	41	0.00	-	0	-	-	-	-	0	-	0	0	4118	0
Burcombe	Southwestern Sports Medicine	41	0.23	1,018	3	1,015	76	942	1,018	1	30.4	1,050	1,050	4118	0
Burcombe	Southwestern Orthopedics	41	0.06	-	0	-	-	-	-	0	-	0	0	4118	0
Burcombe	Ashville Specialty Hospital	41	0.00	-	0	-	-	-	-	0	-	0	0	4118	0
Burcombe	Mission Hospitals (CPT)	3	3.00	7,099	0	7,099	2,761	4,305	7,099	1,154.0	1,104.4	9,324	9,324	4118	0
Burcombe	Total	10	10.21	34,147	2,865	4,181	2,761	4,305	34,147	0	2,48.8	39,107	39,107	4118	0
Burke	7 Blue Ridge Radiology Associates	41	0.34	2,216	-	-	817	1,599	2,216	0	20.4	2,463	2,463	4118	0
Burke	9 Assigned Equivalency % for New mobile scanner	41	0.30	673	0	673	51	622	673	0	20.4	893	893	4118	0
Burke	Carolina Ortho	41	0.16	520	520	1,705	532	1,893	2,225	208.0	212.8	2,946	2,946	4118	0
Burke	Grace Hospital - Blue Ridge Healthcare	41	0.54	568	78	492	82	498	568	30.4	32.8	631	631	4118	0
Burke	Valdese General Hospital	41	1.14	568	-	-	-	-	568	-	-	6433	6433	4118	0
Burke	Total	41	1.77	568	-	-	-	-	568	-	-	6433	6433	4118	0

Table 90: MRI Procedures by MRI Service Areas - All Fixed and Mobile Procedures - 2009 SMFP - TOTALS w/ Tiered & % Mobile Equivalents

MRI - Service Area	Facility	MRI Magnets	Fixed Equivalent Magnets	Total		Output		No Contrast		Contrast		Adjusted		Area Average Procedures	MRI Need
				MRI Scans	Impl MRI	MRI	Contrast	Total MRI	Adjust	Contrast Adjust	Total				
Cabarrus	Cabarrus Diagnostic Imaging MedQuest	1	1.00	2,572	0	2,572	475	2,097	2,572	0	1,900	2762	4287	0	
Cabarrus	Access Medical Imaging	1	1.00	1,054	0	1,054	389	665	1,054	0	155.6	28231	4805	0	
Cabarrus	Northeast Medical Center	4	4.00	21,720	5,867	15,853	10,411	11,309	21,720	2,346.8	4,164.4	28231	4805	0	
Cabarrus	Insight - Northeast Orthopaedic	1	0.23	942	0	942	48	893	942	0	18.6	30993	4287	0	
Cabarrus	2007 SMFP Need Determination	1	1.00	7,223	0	7,223	405	2,387	2,802	166.4	162.0	3130	4287	0	
Cabarrus	Total	7	7.23	26,288	416	23,866	405	2,387	2,802	166.4	162.0	3130	4287	0	
Caldwell	Caldwell Memorial	1	1.00	2,802	0	2,802	289	1,188	1,487	0	116	1603	3775	0	
Caldwell	Total	1	1.00	2,802	0	2,802	289	1,188	1,487	0	116	1603	3775	0	
Carteret	Atlantic Diagnostic - Alliance Imaging	1	0.39	1,497	0	1,497	289	1,188	1,487	0	116	1603	3775	0	
Carteret	Capital Neuroscience - Alliance Imaging	1	1.00	3,118	675	2,443	1,429	1,889	3,118	270.0	571.6	3960	4805	0	
Carteret	Carteret General Hospital	1	0.00	0	0	0	0	0	0	0	0	0	0	0	
Carteret	3 Carteret General Imaging - WakeMed Mobile	1	0.00	0	0	0	0	0	0	0	0	0	0	0	
Carteret	5 Insight Health - Atlantic Diagnostic	1	0.00	0	0	0	0	0	0	0	0	0	0	0	
Carteret	5 Insight Health - Capital Neuroscience	1	0.00	0	0	0	0	0	0	0	0	0	0	0	
Carteret	2008 SMFP Need Determination	1	1.00	4,895	0	4,895	295	1,882	2,177	0	119.0	2295	4805	0	
Carteret	Total	2	2.39	4,895	0	4,895	295	1,882	2,177	0	119.0	2295	4805	0	
Catawba	Carolina Orthopedics - Alliance Imaging	1	0.45	2,176	0	2,176	295	1,882	2,177	0	119.0	2295	4805	0	
Catawba	4-Function Orthopedic - Alliance Imaging	1	0.28	1,260	4	1,256	146	1,116	1,262	1.6	58.4	1322	3775	0	
Catawba	Catawba Valley Medical Center	1	1.00	6,487	868	5,728	2,551	3,936	6,487	343.2	1,020.4	7851	4805	0	
Catawba	Faye Regional Medical Center	2	2.00	7,800	1,150	6,850	3,022	4,778	7,800	460.0	1,208.8	9469	4805	0	
Catawba	Mecklenburg Diagnostic - Alliance Imaging	1	0.00	0	0	0	0	0	0	0	0	0	0	0	
Catawba	2008 SMFP Need Determination	1	0.50	572	0	572	0	0	572	0	0	20936	3663	0	
Catawba	7 Assigned Equivalency % for New mobile scanner	1	0.50	572	0	572	0	0	572	0	0	20936	3663	0	
Catawba	8 Assigned Equivalency % for New mobile scanner	1	0.50	572	0	572	0	0	572	0	0	20936	3663	0	
Catawba	Total	4	5.72	17,723	0	17,723	0	0	17,723	0	0	20936	3663	0	
Chatham	3 Assigned Equivalency % for New mobile scanner	1	0.20	566	28	540	147	321	488	11	59	538	1716	0	
Chatham	Chatham Hospital	1	0.33	566	28	540	147	321	488	11	59	538	1716	0	
Chatham	Total	1	0.53	566	28	540	147	321	488	11	59	538	1716	0	
Clay	No Hospital	1	1	1,672	45	1,627	445	1,227	1,672	18.0	178.0	1868	3775	0	
Cherokee	Mauney Medical Center	1	1	1,672	45	1,627	445	1,227	1,672	18.0	178.0	1868	3775	0	
Tyrrell	No Hospital	1	0.76	1,309	108	1,203	375	834	1,309	42.4	150.0	1501	4805	0	
Chowan	11 Chowan Hospital - UHS - Alliance mobile	1	0.75	1,288	83	1,195	348	393	742	37.2	139.6	919	4805	0	
Chowan	Chowan Hospital (CPT -10)	1	1.00	2,597	813	4,182	2,048	2,947	4,895	325.2	619.2	6139	1716	0	
Chowan	2008 SMFP Need Determination	1	2.51	2,597	813	4,182	2,048	2,947	4,895	325.2	619.2	6139	1716	0	
Chowan	Total	1	1.00	4,995	813	4,182	2,048	2,947	4,895	325.2	619.2	6139	1716	0	
Cleveland	Cleveland Regional Medical Center	1	0.42	1,121	102	1,019	388	734	1,120	40.8	154.4	1315	4118	0	
Cleveland	8 Assigned Equivalency % for New mobile scanner	1	1.00	1,121	102	1,019	388	734	1,120	40.8	154.4	1315	4118	0	
Cleveland	King Mountain Hospital	1	0.22	384	0	384	0	384	384	0	0	384	4118	0	
Cleveland	Kaiser Orthopaedic	1	2.84	6,590	0	6,590	0	6,590	6,590	0	0	7839	4118	0	
Cleveland	Total	2	2.84	6,590	0	6,590	0	6,590	6,590	0	0	7839	4118	0	
Columbus	Alliance Radiology (Professional Diagnostic Services)	1	0.01	53	0	53	18	37	53	0	6.4	59	4118	0	
Columbus	Chickadee Family Medicine	1	0.00	0	0	0	0	0	0	0	0	0	4118	0	
Columbus	Chickadee Family Medicine	1	1.00	3,093	361	2,732	141	886	3,093	144.4	56.4	144	4118	0	
Columbus	Columbus County Hospital (CPT)	1	1.00	1,027	1	1,023	141	886	1,027	0.4	56.4	1084	4118	0	
Columbus	Waccamaw Imaging	1	2.01	4,173	1	4,173	141	886	4,173	0.4	56.4	1288	4118	0	
Columbus	Total	2	2.01	4,173	1	4,173	141	886	4,173	0.4	56.4	1288	4118	0	

Table 90: MRI Procedures by MRI Service Areas - All Fixed and Mobile Procedures - 2009 SMFP - TOTALS w/Tiered & % Mobile Equivalents

MRI - Acute Care Service Area	Facility	Fixed MRI Magnets	Fixed Equivalent Magnets	Total MRI Scans	Inpt MRI	Outpt MRI	Contrast	No Contrast	Total MRI	Inpt Adjust	Contrast Adjust	Adjusted Total	Area Average Procedures	Threshold	MRI Need	
Forsyth	* Piedmont Imaging, Inc. MedQuest	2	2.00	11,776	0	11716	2,892	8,824	11,716	0	1,156.8	12873	12957		0	
	* Salem MRI Center (O-1)	2	1.00	11,309	0	0	4121	7188	11,309	0	1,848.4	12957	0		0	
	*16 OSC Assigned Equivalency % New Mobile Orthopedic Specialists of Carolinas - Alliance	41	0.48	2,343	0	2343	183	2160	2,343	0	73.2	2416	0		0	
	*Alliance-Salem Health Care - Insight	41	0.32	1,527	0	1527	706	819	1,527	0	283.2	1810	0		0	
	*Forsyth Radiological - Insight	41	0.00	NA	0	0	0	0	0	0	0	0	0		0	
	* Salem MRI Center	1	1.00	NA	0	0	0	0	0	0	0	0	0		0	
	*Forsyth Medical Center	2	2.00	12,743	9,728	3,015	10,488	2,255	12,743	3,891.2	4,195.2	20829	20829		0	
	North Carolina Baptist Hospital (CPT)	8	8.00	20,711	5,784	14,912	14,919	5,792	20,711	2,317.6	5,997.6	28996	28996		0	
	*1 FMC Mobile - Winston-Salem Health Care	41	0.00	1,355	0	1,355	593	762	1,355	0	237.2	1592	0		0	
	*1 FMC Mobile - Central Triad Imaging Center	41	0.43	NA	0	0	0	0	0	0	0	0	0		0	
	*2 Assigned Equivalency % for New Mobile Scanner	1	1.00	NA	0	0	0	0	0	0	0	0	0		0	
	Forsyth Medical Center	1	1.00	NA	0	0	0	0	0	0	0	0	0		0	
	2008 SMFP Need Determination	1	1.00	17,52	0	0	0	0	0	0	0	0	0		0	
	Total	15	17.52	61704	460	1,627	537	1,550	2,097	184.0	2,148	81474	2486	4651	4805	0
	Franklin	Franklin Regional Medical Center - Alliance	1	1.00	2087	0	2087	0	0	2087	0	0	0	0		0
Franklin	Franklin Regional Medical Center - Alliance	41	0.00	0.00	0	0	0	0	0	0	0	0	0		0	
Franklin	Franklin Regional Medical Center - MedQuest	41	0.00	0.00	0	0	0	0	0	0	0	0	0		0	
Total	1	1.00	2,087	0	2,087	0	0	2,087	0	0	0	0	2486	3775	0	
Franklin	Total	1	1.00	2,087	0	2,087	0	0	2,087	0	0	0	2486	3775	0	
Gaston	CIS-Radiant	1	1.00	2745	0	2745	559	2186	2,745	0	223.6	2969	0		0	
Gaston	*Gastonia Diagnostic Imaging MedQuest	41	0.57	7,626	4,020	3,604	4,748	2,876	7,626	1,808.0	1,890.2	11133	0		0	
Gaston	Gaston Memorial Hospital	1	1.00	1,00	0	1,00	0	0	1,00	0	0	0	0		0	
Gaston	GMH - The Diagnostic Center	1	1.00	1,00	0	1,00	0	0	1,00	0	0	0	0		0	
Gaston	CIS-Summit Crossing	1	1.00	1,00	0	1,00	0	0	1,00	0	0	0	0		0	
Gaston	14 Assigned Equivalency % for New Mobile Scanner	1	0.50	1,00	0	1,00	0	0	1,00	0	0	0	0		0	
Total	2	5.07	18371	0	2,745	559	2,186	2,745	1,808.0	2,23.6	14192	14192	2781	4805	0	
Granville	10 Granville Medical Center WRS Mobile	41	0.00	0.00	0	0	0	0	0	0	0	0	0		0	
Granville	Granville Medical Center - Alliance	41	1.00	1,420	119	1,301	271	1,148	1,419	47.6	108.4	1576	0		0	
Granville	Granville Medical Center - King's Medical Center	41	1.00	1,420	119	1,301	271	1,148	1,419	47.6	108.4	1576	0		0	
Total	1	1.00	1,420	119	1,301	271	1,148	1,419	47.6	108.4	1576	0	1575	1716	0	
Gulford	* Diagnostic Radiology and Imaging, LLC (O-1)	2	2.00	12,424	0	12424	6001	6423	12,424	0	2,400.4	14824	14824		0	
Gulford	* Southeastern Radiology (O-1)	1	1.00	3,450	0	3450	800	2550	3,450	0	360.0	3810	0		0	
Gulford	* Triad Imaging MedQuest	1	1.00	5,771	0	7,077	1,870	5,207	7,077	0	748.0	7825	0		0	
Gulford	*Greenstone Orthopedics - Alliance	41	1.00	4,897	30	4867	508	4389	4,897	12	283.2	5112	0		0	
Gulford	*Gulford Neurological - Alliance	41	0.00	3,921	0	3921	1333	2588	3,921	0	633.2	4454	0		0	
Gulford	*High Point Orthopedic - Insight	41	0.00	5,030	0	5030	551	4481	5,030	0	220.4	5252	0		0	
Gulford	*Southwestern Orthopedic Specialists - Alliance	41	1.00	6,225	0	3,830	1,594	4,631	6,225	0	837.6	7781	0		0	
Gulford	*High Point Regional Health System (O-1)	2	2.00	942	4	938	277	882	939	1.8	110.5	1051	0		0	
Gulford	*13 HPRHS Mobile - Johnston Neurological, HP	41	0.50	3,00	4,608	3,571	3,782	4,417	8,179	1,843.2	1,504.8	11527	0		0	
Gulford	* Moses Cone Memorial Hospital	3	3.00	8,179	4,608	3,571	3,782	4,417	8,179	1,843.2	1,504.8	11527	0		0	
Gulford	* Cornerstone Healthcare	1	1.00	NA	0	0	0	0	0	0	0	0	0		0	
Total	10	13.82	60839	4,608	3,571	3,782	4,417	8,179	1,843.2	1,504.8	61617	61617	4460	4805	0	
Northampton	No Hospital	1	1.00	2,049	298	1,750	776	1,273	2,049	119.6	310.4	2479	2479		0	
Halifax	Halifax Regional Medical Center	1	1.00	2,049	298	1,750	776	1,273	2,049	119.6	310.4	2479	2479		0	
Halifax	Our Community Hospital	1	1.00	2,049	298	1,750	776	1,273	2,049	119.6	310.4	2479	2479		0	
Halifax/Norham	Total	1	1.00	2,049	298	1,750	776	1,273	2,049	119.6	310.4	2479	2479		0	

Table 90: MRI Procedures by MRI Service Areas - All Fixed and Mobile Procedures - 2009 SMFP - TOTALS w/Filtered & % Mobile Equivalents

MRI - Acute Care Service Area	Facility	Fixed MRI Magnets	Fixed Equivalent Magnets	Total MRI Score	Inpt MRI	Outpt MRI	Contrast MRI	No Contrast	Total MRI	Inpt Adjust	Contrast Adjust	Adjusted Total	Area Average Procedures	Threshold	MRI Need
Hennepin	Bessly Johnson Regional Hospital	1	1.00	3,610	582	3,028	1,184	2,426	3,610	232.8	473.6	4316	3607	3775	0
Hennepin	3 Assigned Equivalency % for New Mobile scanner	1	0.20									0			
Hennepin	Carle Regional Radiology	1	0.00									239			
Hennepin	Quinn Medical Plaza	1	0.06	238	0	238	1	238	239		0.4	0			
Hennepin	10 Good Hope Hospital - WRS Mobile	1	0.00									0			
Hennepin	Total	1	1.26	3848	582	3,028	1,184	2,426	3,610	232.8	473.6	4316	3607	3775	0
Haywood	Haywood Regional Medical Center	2	2.00	4,793	527	4,266	2,221	2,572	4,793	210.8	888.4	5892	2946	4118	0
Haywood	Total	2	2.00	4,793	527	4,266	2,221	2,572	4,793	210.8	888.4	5892	2946	4118	0
Henderson	Margaret R. Pardee Memorial Hospital (CPT)	2	2.00	6,901	639	6,262	2,034	4,867	6,901	255.6	813.6	7970			
Henderson	Southern Orthopaedic & Musculoskeletal	1	0.00									0			
Henderson	Fletcher Hospital - Park Ridge Hospital	1	0.00									0			
Henderson	Fletcher Hospital - Fletcher Town Hall	1	0.00									0			
Henderson	Park Ridge Hospital	1	1.00	2,484	364	2,120	1,186	1,298	2,484	145.6	474.4	3104	3691	4462	0
Henderson	Total	3	3.00	6901	967	5,934	3,320	6,165	6,901	401.2	1368.0	11074			
Gates	McGates Medical Center	1	0.00									0			
Hertford	11 Roanoke-Chowan Hospital UHS Mobile	1	0.00									0			
Hertford	11 Roanoke-Chowan UHS Mobile Alliance Temp Unit	1	1.00	133	18	120	25	113	138	7.2	10.0	156			
Hertford	Roanoke-Chowan Hospital	1	0.46	1,866	304	1,562	435	1,431	1,866	121.8	174.0	2462			
Hertford	Roanoke-Chowan Hospital (Mobile)	1	0.61	1,934	312	1,622	490	1,444	1,934	124.8	186.0	2255			
Hertford	Roanoke-Chowan Hospital - SMT	1	2.01	3938								4572	2278	3775	0
Hertford/Gates	Total	1	1.00	7,646	634	7,012	1,441	6,245	7,686	328.0	578.4	8362			
Iredell	*Piedmont Healthcare / Alliance Imaging	1	0.06	396	0	396	0	396	396			344.4			
Iredell	McCarroll Specialty Care	1	1.00	2,790	698	2,092	838	1,852	2,790	279.2	375.2	3444			
Iredell	Davis Regional Medical Center	1	1.00	4,495	1,079	3,416	2,149	2,346	4,495	431.6	859.6	5786			
Iredell	Iredell Memorial Hospital	2	2.00	6,296	681	4,615	1,613	3,783	6,296	272.4	605	8174			
Iredell	Lake Norman Regional Medical Center (CPT-43)	5	5.08	20823								24063	4734	4805	0
Iredell	Total	1	1.00	3,477	251	3,226	1,162	2,325	3,487	100.4	484.8	4052			
Jackson	Harris Regional Hospital	1	1.00	2,001								4052	2026	3775	0
Jackson	2008 SMFP Need Determination	2	2.00												
Jackson	Total	1	1.00	2,001								4052	2026	3775	0
Johnston	*Eastern Carolina Medical Center - Alliance	1	0.08	346	0	346	46	300	346	0	18.4	364			
Johnston	Johnston Memorial Hospital	1	1.00	4,894	1,266	3,628	1,426	3,488	4,894	506.4	570.4	5971	3840	4118	0
Johnston	2007 SMFP Need Determination	1	1.00									6336			
Johnston	Total	2	2.08	5240	482	4,756	1,472	3,488	5,290	506.4	588.4	6336	3840	4118	0
Lee	Central Carolina Hospital	1	1.00	2,561								3204	3204	3775	0
Lenoir	Wakeston Orthopaedics	1	0.00									0			
Lenoir	Lenoir Memorial Hospital	1	1.00	3,658	883	2,695	1,324	2,334	3,658	386.2	529.6	4573	2286	3776	0
Lenoir	2008 SMFP Need Determination	2	2.00									4573			
Lenoir	Total	1	1.00	3,658	883	2,695	1,324	2,334	3,658	386.2	529.6	4573	2286	3776	0
Lincoln	All Lincoln Radiology	1	0.00									0			
Lincoln	Ag CIS Mobile - CMC-Lincoln	1	1.00	2,167	306	1,861	771	1,398	2,167	122.4	308.4	2598			
Lincoln	17 BRRA Mobile - Blue Ridge Radiology	1	0.38	305			51	254	305		20.4	325			
Lincoln	2008 SMFP Need Determination	1	1.00									2923	1342	1716	0
Lincoln	Total	1	2.18	2472	82	2,390	822	1,652	2,472	122.4	328.8	2923	1342	1716	0
Macon	Angel Medical Center	1	1.00	1,839								2138			
Macon	Highlands-Cashiers	1	1.00	508	8	498	107	399	508	3.2	287.6	552	2681	4118	0
Macon	Total	2	2.00	2347	8	2339	117	399	508	3.2	287.6	2690	2681	4118	0

Table 90: MRI Procedures by MRI Service Areas - All Fixed and Mobile Procedures - 2009 SMFP - TOTALS w/Filtered & % Mobile Equivalents

MRI - Service Area	Facility	Fixed MRI Magnets	Fixed Equivalent Magnets	Total MRI		Output MRI		No Contrast		Total MRI		Adjusted		Area Average Procedures	Threshold	MRI Need
				MRI Scans	Inpt MRI	MRI	Inpt MRI	Contrast	Contrast	Total MRI	Inpt Adjust	Contrast Adjust	Adjusted Total			
McDowell	The McDowell Hospital - Alliance	1	1.00	2,023	26	1,997	361	1,662	0	2,023	10.4	144.4	2178	0	0	0
McDowell	The McDowell Hospital - Alliance	1	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
McDowell	Marion Correction Institute	1	1.00	2023	26	1,997	361	1,662	0	2,023	10.4	144.4	2178	0	0	0
McDowell	Total	65	80.31	224869	17	595	722	1,662	0	612	6.6	144.4	619	619	1716	0
McDowell	Presbyterian Carolinas Integrated Healthcare	1	1.00	1,331	0	1,331	404	927	1,331	1,331	0	161.8	1493	1493	1716	0
McDowell	Charbono Radiology / Diagnostic Imaging Center	2	2.00	4,710	0	4,710	1,500	3,211	4,711	4,711	0	600.0	6311	6311	1716	0
McDowell	McDowell Diagnostic Imaging - McQuest	1	1.00	5,087	0	5,087	1,384	3,703	5,087	5,087	0	553.8	5641	5641	1716	0
McDowell	Ortho Carolinas - 1815 Randolph Rd.	1	1.00	7,907	0	7,907	725	7,182	7,907	7,907	0	290.0	8197	8197	1716	0
McDowell	Ortho Carolinas - Albemarle	1	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
McDowell	Imaging Associates of the Carolinas	1	0.25	1,125	0	1,125	429	696	1,125	1,125	0	171.6	1297	1297	1716	0
McDowell	Orion Imaging	1	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
McDowell	McB Orthopaedic	1	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
McDowell	Owens Orthopaedic	1	0.06	299	0	299	0	299	299	299	0	0	299	299	1716	0
McDowell	Perry & Barron Orthopaedic	1	0.07	318	0	318	0	318	318	318	0	0	318	318	1716	0
McDowell	Monroe Diagnostic Imaging - McQuest	1	1.00	1,398	0	1,398	414	984	1,398	1,398	0	165.6	1604	1604	1716	0
McDowell	Carolina Imaging Services, LLC - Huntersville	1	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0
McDowell	CIS Mobile - CIS Huntersville	3	3.00	12,411	4,608	7,803	8,546	5,885	12,411	12,411	1,843.2	2,618.4	16873	16873	1716	0
McDowell	Carolina Medical Center	2	2.00	4,822	600	4,062	2,415	2,507	4,922	4,922	344.0	966.0	6232	6232	1716	0
McDowell	Carolina Medical Center - University	1	1.00	5,376	717	4,658	2,471	2,905	6,376	6,376	286.8	988.4	6651	6651	1716	0
McDowell	Carolina Neurosurgery & Spine - Baldwin Ave.	1	0.79	3,815	0	3,815	1,501	2,314	3,815	3,815	0	600.4	4415	4415	1716	0
McDowell	Carolina Neurosurgery & Spine - BalaRhyne	1	0.20	948	0	948	173	775	948	948	0	69.2	1017	1017	1716	0
McDowell	Carolina Specialty Hospital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McDowell	Cherokee Institute of Rehabilitation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
McDowell	Presbyterian Hospital	2	2.00	9,364	4,442	4,904	4,589	4,757	9,346	9,346	1,776.8	1,835.6	12958	12958	1716	0
McDowell	Presbyterian Imaging Center University - Insight	1	0.17	835	0	835	316	519	835	835	0	126.4	981	981	1716	0
McDowell	Presbyterian Imaging Center Main Museum	1	1.00	2,414	0	2,414	1,436	976	2,414	2,414	0	575.2	2989	2989	1716	0
McDowell	Presbyterian Hospital Huntersville	1	0.81	3,893	781	3,132	511	3,382	3,893	3,893	304	204.4	4402	4402	1716	0
McDowell	Presbyterian Hospital Matthews	1	1.00	6,136	1,303	4,835	2,423	3,715	6,136	6,136	621.2	969.2	7628	7628	1716	0
McDowell	Autodesk Equivalency % for New Mobile scanner	1	0.20	3,154	53	3,101	611	2,243	3,154	3,154	21.2	364.4	3540	3540	1716	0
McDowell	Presbyterian Orthopaedic Hospital	1	1.00	8,737	15	8,722	262	6,475	8,737	8,737	0	104.6	8942	8942	1716	0
McDowell	Keller Orthopaedic	1	0.50	84182	15	84167	0	0	84182	84182	0	0	100627	100627	1716	0
McDowell	14 Assigned Equivalency % for New Mobile scanner	17	21.04	84182	15	84167	0	0	84182	84182	0	0	100627	100627	1716	0
McDowell	Total	17	21.04	84182	15	84167	0	0	84182	84182	0	0	100627	100627	1716	0

Table 90: MRI Procedures by MRI Service Areas - All Fixed and Mobile Procedures - 2009 SMFP - TOTALS w/Tiered & % Mobile Equivalents

MRI - Service Area	Facility	Fixed		Total MRI Scans	Inpt MRI	Output MRI	Contrast	No Contrast	Total MRI	Inpt Adjust	Contrast Adjust	Adjusted Total	Avg Average Procedures	Threshold	MRI Need
		MRI	Equivalent Magnets												
Oslow	*Jacksonville Diagnostic Imaging / Coastal Diagnostic MedQuest	A1	1.00	4,678	18	4,678	780	3,898	4,678	8.4	312.0	4986			
Oslow	Oslow Memorial Hospital	1	1.00	3,198	448	2,749	1,588	1,826	3,214	179.6	835.2	4029			
Oslow	Jacksonville Diag Imaging / Coastal Medquest	1	1.00	7876								9025	3008	\$118	0
Oslow	Total	2	3.00												
Castwall	No Hospital														
Orange	* Wake Radiology Diagnostic Imaging Chapel Hill UNC Hospitals	1	1.00	1,995	0	1,995	547	1,448	1,995	0	218.8	2214			
Orange	2008 SMFP Need Determination	6	8.00	25,598	8,594	17,004	18,545	7,053	25,598	3,437.6	7,418.0	36454			
Orange	Total	7	9.00	27,593								38667	4833	4805	1
Camden	No Hospital														
Currtuck	RMS Currtuck Internal Medicine RMS Carolina Family Practice	A1	0.80	0								0			
Currtuck	No Hospital	A1	0.00	0								0			
Perquimans	Albemarle Hospital	1	1.00	4,081	588	3,493	1,472	2,569	4,061	227.2	588.8	4877	2439	418	0
Perquimans	Albemarle Hospital	4	1.00	NA	688	3493	1472	2589	4061	227	589	4877	2439	418	0
Perquimans	Total	5	2.00												
C-C-P-P	*Atlantic Diagnostic Pender Memorial Hospital	A1	0.00	-	0							0			
Pender	4 Assigned Equivalency % for New Mobile scanner	A1	0.22	375	20	355	112	263	375	8.0	44.8	428	428	1716	0
Pender	Total	A1	0.39	375								428	428	1716	0
Person	12 Assigned Equivalency % for New Mobile scanner	A1	0.33	1,145	83	1,052	326	819	1,145	37.2	130.4	1313	1313	1716	0
Person	Person Memorial Hospital	A1	0.67	1,145								1313	1313	1716	0
Person	Total	A1	1.00												
Gretna	No Hospital														
Pitt	*Atlantic Radiology Associates Orthopedics East - Alliance	A1	0.23	1,084	0	1,084	91	993	1,084	0	36.4	1120			
Pitt	Physicians East - King's Medical * Greenville MRI (CPT)	1	1.00	8,773	0	8,773	3168	5605	8,773	0	1,267.2	10040			
Pitt	* MRI of Eastern NC	2	2.00	8,934	0	8,934	1281	5643	8,934	0	516.4	7450			
Pitt	Pitt County Memorial Hospital (CPT)	2	2.00	8,425	6,158	3,290	4,526	4,899	9,425	2,454.0	1,810.4	13689			
Pitt	Pitt County Memorial Hospital	1	1.00	NA								32300	4470	4805	0
Pitt/Gretna	Total	7	7.23	26216											
Polk	8 Assigned Equivalency % for New Mobile scanner	A1	0.14	336	31	305				12.4		12	12	1716	0
Polk	St Lukes Hospital - Insight	A1	0.20	336								12	12	1716	0

Table 90: MRI Procedures by MRI Service Areas - All Fixed and Mobile Procedures - 2009 SMFP - TOTALS w/filtered & % Mobile Equivalents

MRI Service Area	Facility	Fixed MRI Magnets	Fixed Equivalent Magnets	Total MRI Scans	Inpt MRI	Outpt MRI	Contrast MRI	No Contrast MRI	Total MRI	Inpt Adjust	Contrast Adjust	Adjusted Total	Average Procedures	Threshold	MRI Need
Warren	No Hospital														
Vance	2007 SMFP Need Determination Marle Parham Hospital	1	1	3,724	899	2,825	422	3,302	3,724	359.6	168.8	4,252	2126	4416	0
Vance/Warren	Total	2	2	3,724								4,252			
Wake	Raleigh Radiology at Cedarhurst 5 Assigned Equivalency % for New Mobile scanner	1	1	NA						0	-	0			
Wake	Rax Healthcare of Cary	1	1	1,000						0	698.4	698.4			
Wake	Rax Healthcare of Wakefield (mobile)	1	1	1,000						0	520.0	520.0			
Wake	Raleigh Neurology	1	1	1,000						0	25.6	25.6			
Wake	Raleigh Radiology	1	1	1,000						0	2.0	2.0			
Wake	Carolina Rehab & Surgical Association	1	1	0.24						0	39	39			
Wake	Cary Radiology	1	1	0.01						0	30.8	30.8			
Wake	Dorothea Dix	1	1	150						0	218	218			
Wake	North Raleigh Diagnostic	1	1	0.00						0	0	0			
Wake	North Raleigh Diagnostic	1	1	0.02						0	4.4	4.4			
Wake	10 Wake Radiology - Garner Office-WRS Mobile	1	1	0.15						0	1	1			
Wake	Raleigh Orthopaedic	1	1	2.00						0	1,374.4	1,374.4			
Wake	Wake Radiology Services - Raleigh MRI Center	1	1	2.00						0	2,700	2,700			
Wake	10 Wake Radiology - Raleigh MRI - WRS Mobile	1	1	0.40						0	234.4	234.4			
Wake	Duke Raleigh Hospital	1	1	1.00						0	685.6	685.6			
Wake	Rax Healthcare	2	2	2.00						0	1,888	1,888			
Wake	Wakefield (CPT - 721)	2	2	2.00						0	861.2	861.2			
Wake	Wakefield North Healthcare - Wakefield Mobile	1	1	0.11						0	1,511.6	1,511.6			
Wake	Wakefield Cary (CPT - 131)	1	1	1.00						0	47.6	47.6			
Wake	17 Assigned Equivalency % for New Mobile scanner	11	11	15.52						0	622.0	622.0			
Washington	5 Assigned Equivalency % for New Mobile scanner	1	1	0.15						0	-	-			
Washington	Washington County Hospital - SMT	1	1	0.21						0	563.2	563.2			
Waynes	Waynes Memorial Hospital / Wayne MRI, LLC	2	2	2.00						0	581.8	581.8			
Waynes	Waynes Memorial Hospital / Wayne MRI, LLC	2	2	2.00						0	659.5	659.5			
Waynes	Total	2	2	2.00						0	1,162	1,162			
Wilkes	Wilkes Regional Medical Center	1	1	1						0	663.2	663.2			
Wilkes	2008 SMFP Need Determination	2	2	2.00						0	4162	4162			
Wilson	Regional MRI of Wilson (O-1)	1	1	1.00						0	-	-			
Wilson	Professional Diagnostic Services	1	1	0.00						0	-	-			
Wilson	Wilson Medical Center (CPT)	1	1	1.00						0	802.0	802.0			
Wilson	WINKED Imaging Services, LLC	1	1	1.00						0	-	-			
Wilson	Total	3	3	3.00						0	10.4	10.4			
Yadkin	Hours Memorial	1	1	0.12						0	-	-			
Yadkin	2 Assigned Equivalency % for New Mobile scanner	1	1	0.28						0	-	-			
Yadkin	Total	2	2	0.40						0	-	-			
SUBTOTAL	Total	28	28	33.42	88026	208	208	208	208	8.8	563.2	4501	2251	1716	0

Table 90: MRI Procedures by MRI Service Areas - All Fixed and Mobile Procedures - 2009 SMFP - TOTALS w/Tiered & % Mobile Equivalents

MRI - Acute Care Service Area	Facility	Fixed MRI	Fixed Equivalent Magnets	Total MRI Scans	Inpt MRI	Outpt MRI	No Contrast		Total MRI		Inpt Adjust	Contrast Adjust	Adjusted Total	Area Average Procedures	Threshold	MRI Need
							Total	%	Total	%						
TOTALS		206	254.87	730,662												3

Total of Need Determinations:

- CONs for Newer Mobile MRI Scanners and Equivalency %:
- 1 Foreyth Medical Center (FMC)
 - 2 Alliance Imaging, Inc. - Western
 - 3 WakeMed
 - 4 Alliance Imaging, Inc. - Eastern
 - 5 Insight Health Corp.
 - 6 Carolinas Imaging Services, LLC (CIS)
 - 7 Blue Ridge Radiology Associates (BRRRA)
 - 8 Frye Regional Medical Center
 - 9 Carolinas Imaging Services, LLC (CIS)
 - 10 Wake Radiology Services, LLC (WRS)
 - 11 University Health Systems (UHS)
 - 12 Alliance Regional Medical Center
 - 13 High Point Regional Health System
 - 14 Imaging Associates of the Carolinas
 - 15 Porters Neck Imaging - Delaney Radiologists
 - 16 Orthopedic Specialists of the Carolinas, PA (OSC) - Projected to be operational January 2008
 - 17 Raleigh Orthopaedic Clinic, PA

(0-1) = 1 open MRI

Threshold	Fixed Scanners =	Fixed Scanners =	Fixed Scanners =	Fixed Scanners =
4+	4,805	4,462	4,118	3,775
3				1,716
2				
1				
0				

A1 = Mobile Site
 * Name of Facility = Free-standing Fixed MRI Provider
 NA = Not Applicable, not operational for time period ending September 30, 2006
 CPT - CPT Code 76375 - MRI 3-D Reconstruction Procedures have been removed from each entity's Total MRI Scans, Quantities MRI and No Contrast column totals.
 Considered not appropriate to count as procedures that would contribute to additional MRI scanner need determinations.

Table 9Q: Fixed MRI Scanners Need Determination
(Scheduled for Certificate of Need Review during 2009)

It is determined that the service areas listed in the tables below need additional Fixed MRI Scanners as specified:

HSA	MRI Service Area	Fixed MRI Scanners Need Determination*	CON Application Due Date**	CON Beginning Review Date
IV	Orange	1	To be determined	To be determined
II	Randolph	1	To be determined	To be determined
III	Rowan	1	To be determined	To be determined
	TOTAL	3		

It is determined that there is no need for any additional fixed MRI scanners anywhere else in the State, except for approved adjusted need determinations for fixed MRI scanners found elsewhere in this section of Chapter 9 of this 2009 State Medical Facilities Plan.

* Need determinations as shown in this document may be increased or decreased during the year pursuant to Policy GEN-2 (See Chapter 4).

** Application Due Dates are absolute deadlines. The filing deadline is 5:30 p.m. on the Application Due Date. The filing deadline is absolute (See Chapter 3).