

Technology and Equipment Committee

Revised Tables

August 27, 2008

**Table 9E: Hospital and Free-Standing Linear Accelerators
and Radiation Oncology Procedures
North Carolina Proposed 2009 State Medical Facilities Plan**

Facility Name	Service Area #	County	LIN ACC	PROCEDURES (ESTVs)	
				2006-2007	Average per Unit
Harris Regional Hospital, Inc.-Mtn Trace	1	Jackson	1	4,315	4,315
NC Radiation Therapy - Franklin	1	Macon	1	2,266	2,266
Mission Hospitals (S) (b)	2	Buncombe	3	19,884	6,628
NC Radiation Therapy - Asheville	2	Buncombe	2	9,647	4,824
NC Radiation Therapy - Clyde	2	Haywood	1	4,136	4,136
NC Radiation Therapy - Marion	2	McDowell	1	2,412	2,412
Watauga Hospital	3	Watauga	1	6,161	6,161
Margaret Pardee Mem. Hospital	4	Henderson	1	8,712	8,712
NC Radiation Therapy - Brevard	4	Transylvania	1	1,668	1,668
NC Rad. Therapy - Hendersonville	4	Henderson	1	332	332
Catawba Valley Medical Center	5	Catawba	2	15,703	7,852
Frye Regional Medical Center	5	Catawba	1	NA	NA
Grace Hospital, Inc.	5	Burke	1	NR	NR
Valdese General	5	Burke	1	5,615	5,615
Caldwell Memorial Hospital, Inc.	5	Caldwell	1	2,559	2,559
Cleveland Regional	6	Cleveland	1	6,496	6,496
Gaston Memorial Hospital (h)	6	Gaston	3	14,484	4,828
NC Radiation Therapy - Forest City	6	Rutherford	1	4,196	4,196
Pineville Radiation Therapy Center (n)	7	Mecklenburg	1	NA	NA
Carolinas Medical Center (S)	7	Mecklenburg	3	17,280	5,760
CMC-Union Reg. Medical Center (i)	7	Union	1	8,395	8,395
Matthews Radiation Oncology	7	Mecklenburg	1	10,482	10,482
Presbyterian Hospital	7	Mecklenburg	4	15,722	3,931
University Radiation Oncology	7	Mecklenburg	1	7,335	7,335
Iredell Memorial	8	Iredell	2	8,309	4,155
Lake Norman Radiation Oncology Center	8	Iredell	1	8,688	8,688
Rowan Regional Medical Center	8	Rowan	1	6,697	6,697
NorthEast Medical Center	9	Cabarrus	2	12,839	6,420
Stanly Regional Medical Center	9	Stanly	1	4,981	4,981
Forsyth Memorial Hospital	10	Forsyth	4	26,633	6,658
Hugh Chatham Memorial Hospital (d)	10	Surry	1	3,802	3,802
N. C. Baptist Hospitals (S)	10	Forsyth	4	19,359	4,840
Cancer Center of Davidson County (o)	11	Davidson	1	NA	NA
High Point Regional Health System	12	Guilford	2	9,011	4,506
Morehead Memorial Hospital	12	Rockingham	1	5,845	5,845
Moses Cone Health System	12	Guilford	4	28,589	7,147
Randolph Cancer Center (m)	13	Randolph	1	NA	NA
UNC Hospitals (S)	14	Orange	4	24,569	6,142
Alamance Regional Medical Center (j)	15	Alamance	2	11,005	5,503
Duke University Hospital (S)	16	Durham	5	37,067	7,413
Durham Regional Hospital	16	Durham	1	5,335	5,335
Maria Parham Hospital (e)	16	Vance	1	3,045	3,045

**Table 9E: Hospital and Free-Standing Linear Accelerators
and Radiation Oncology Procedures
North Carolina Proposed 2009 State Medical Facilities Plan**

FirstHealth Moore Regional	17	Moore	2	24,577	12,289
Scotland Memorial Hospital (l)	17	Scotland	1	5,333	5,333
Cape Fear Valley Medical Center (a)	18	Cumberland	4	27,572	6,893
Southeastern Regional Medical Center	18	Robeson	1	8,390	8,390
Sampson Regional Medical Center	18	Sampson	1	1,710	1,710
2008 SMFP Need Determination	18		1		
New Hanover Radiation Oncology	19	New Hanover	2	24,737	12,369
New Hanover Regional Med Ctr	19	New Hanover	1	8,388	8,388
South Atlantic Radiation Oncology, LLC (c)	19	Brunswick	1	NA	0
2007 SMFP Need Determination	20		1		
Cancer Centers of NC - Raleigh Hematology	20	Wake	1	10,062	10,062
Duke Raleigh Hospital	20	Wake	1	6,923	6,923
Rex Hospital	20	Wake	4	18,838	4,710
Wake Radiology / Oncology Services	20	Wake	1	5,597	5,597
Smithfield Radiation Oncology LLC	21	Johnston	1	3,053	3,053
2006 SMFP Need Determination	21	Johnston	1		
Lenoir Memorial	22	Lenoir	1	7,267	7,267
Wayne Radiation Oncology Center	22	Wayne	1	5,535	5,535
Carteret General (g)	23	Carteret	1	3,750	3,750
Craven Regional Med Ctr	23	Craven	2	13,590	6,795
2006 SMFP Need Determination	24	Onslow	1		
Nash Day Hospital	25	Nash	2	8,194	4,097
Roanoke Valley Cancer Center	25	Halifax	1	3,578	3,578
Wilson Memorial Hospital	25	Wilson	1	5,525	5,525
Ahoskie Cancer Center	26	Hertford	1	2,679	2,679
Carolina Radiation Medicine, P.A. (f) (S)	26	Pitt	1	8,711	8,711
Pitt County Memorial Hospital (S)	26	Pitt	3	18,097	6,032
Albemarle Hospital	27	Pasquotank	1	3,666	3,666
Outer Banks Cancer Center	27	Dare	1	3,643	3,643
TOTALS (67 Facilities)			114	612,989	5,377

Table 9H: PET Scanner Utilization of Existing Fixed Dedicated Scanners

Center	Procedures				HSA	Inventory	Utilization Rate 2007 Procedures/ 3000 as Capacity	Need Determination by Criteria - 80% of Present Capacity
	2003- 2004	2004- 2005	2005- 2006	2006- 2007				
Mission Hospitals (f)	644	875	1003	1607	I	1	53.57%	
Catawba Valley/ Frye Reg. (j)		848	1258	1574	I	1	52.47%	
N.C. Baptist Hospitals	1797	1266	1477	1919	II	1	63.97%	
Moses Cone Health System (o)		1352	1760	1955	II	1	65.17%	
Forsyth Medical Center (p)	130	1579	2417	2983	II	1	99.43%	
2008 SMFP Need Determination						1		
High Point Regional (r)	179	356	574	785	II	1	26.17%	
Alamance Reg. Medical Ctr. (u)			374	480	II	1	16.00%	mobile procedures
Carolinas Med Center(a),(k)	2908	3049	3635	3654	III	2	60.90%	
Gaston Mem. / CIS Summit (m)	172	700	846	984	III	1	32.80%	
NorthEast Medical Center (n)	330	481	615	818	III	1	27.27%	
The Presbyterian Hospital (q)		1544	1988	2173	III	1	72.43%	
2008 SMFP Need Determination						1		
Iredell Memorial Hospital (t)				NA	III	1		
Duke Univ. Hospital (d)	3135	3091	3596	3858	IV	2	64.30%	
UNC Hospitals (b)	1389	1144	1386	1878	IV	2	31.30%	
Rex Hospital (e)	1116	1544	1913	2139	IV	1	71.30%	
Wake PET Services, Wake Radiology Oncology, Wake Radiology, WakeMed (s)			NA	NA	IV	1		
New Hanover Reg. Med. (g)		582	755	895	V	1	29.83%	
Cape Fear Valley Medical Ctr. (h)	629	1218	2069	2268	V	1	75.60%	
First Imaging of the Carolinas (i)	351	529	550	865	V	1	28.83%	
Pitt Co. Memorial (c)	418	393	832	981	VI	1	32.70%	
Craven Reg. Medical (l)		719	831	852	VI	1	28.40%	
Nash General Hospital (u)			336	421	VI	1	14.03%	mobile procedures
TOTAL	13,198	21,270	28,215	33,089		27		0

NA Not Applicable for time period ending September 30, 2007.
 NR No Report at this time.

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|--------------------------------------------------------------------------------------------------|---------------------------------------------|
| (a) Approved for additional scanner in November 2001. | (l) Approved for scanner in October 2003. |
| (b) Approved for scanner in June 2000 and additional scanner under Policy AC-3 in November 2005. | (m) Approved for scanner in December 2003. |
| (c) Approved for scanner in August 2001. | (n) Approved for scanner in December 2003. |
| (d) Approved for additional scanner under Policy AC-3 in September 2002. | (o) Operational in October 2004. |
| (e) Approved for scanner in September 2002. | (p) Approved for scanner in June 2004. |
| (f) Approved for scanner in January 2003. | (q) Approved for scanner in June 2004. |
| (g) Operational in October 2004. | (r) Approved for scanner in January 2005. |
| (h) Approved for scanner in August 2003. | (s) Approved for scanner in November 2005. |
| (i)Approved for scanner in August 2003. | (t) Approved for scanner in January 2007. |
| (j)Approved for scanner in July 2003. | (u) Approved for scanner in April 2007. |
| (k) Approved for replacement of 1 scanner in June 2003. | (v) Approved for scanner in May 2007 |

Table 9N: Pediatric Diagnostic Catheterization Procedures *

Facility	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Cape Fear Valley	1	--	--	--	--	--	--	--	--	--	--	--	--
Carolinas Medical Center	204	286	150	153	120	98	149	100	166	163	155	160	169
Duke Univ. Hospital	164	181	176	180	195	174	161	95	142	88	149	247	187
Mission Hospitals						1	30	38	13	1	1	0	0
N. C. Baptist	83	74	111	100	93	97	97	96	88	80	60	64	93
Pitt County Memorial	15	24	35	19	14	18	27	39	49	44	37	46	26
Presbyterian	2	1	--	--	--	--	--	--	--	--	--	--	--
UNC Hospitals	175	164	158	128	135	155	170	266	276	218	262	243	201
WakeMed	1	--	--	--	--	--	--	--	--	--	--	--	--
TOTALS	645	730	630	580	557	543	634	634	734	594	664	760	676

Source: N.C. Division of Health Service Regulation Annual Hospital License Renewal Application.

* Until 1995, Pediatric Procedures were defined as those procedures performed on cardiac patients ages 5 and under.

Beginning in 1996 the Hospital License Renewal Application requested Hospitals to report pediatric information based on cardiac patients 14 and under.

During 2007, there were three mobile cardiac catheterization vendors providing mobile cardiac catheterization services to patients at 21 hospitals across the state. The reported number of mobile cardiac catheterization procedures for the years ending 9/30/2000 through 9/30/2007 is shown on the following Table 9O.

**Table 9P: Percutaneous Transluminal Coronary Angioplasty (PTCA)
Interventional Procedures ***

Hospital	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Alamance Regional	41	100	155	143	103	99	123	163	140	120
Albemarle Hospital	--	--	--	--	--	--	63	31	0	0
Cape Fear Valley Medical Center	273	304	332	339	415	437	659	747	613	417
Carolinas Medical Center	1,791	1,733	1,655	1,724	1,784	2,509	1,999	1,791	1,847	1,817
CMC Mercy-Pineville	845	785	940	698	660	633	634	554	516	529
Catawba Valley Medical Center	--	3	64	98	61	92	79	92	86	119
Craven Reg. Medical Center	398	466	587	532	567	510	570	586	501	570
Duke Raleigh Hospital	--	--	--	--	--	--	--	--	--	18
Duke University Hospital	1,617	1,708	1,689	1,594	1,655	1,871	1,724	1,845	1,618	1,498
Durham Regional Hospital	246	288	296	374	375	364	217	78	293	237
First Health Moore Regional	1,062	1,025	1,127	1,207	1,284	1,422	1,671	1,759	1,880	1,845
Forsyth Medical Center	702	672	814	1,787	2,246	2,838	2,632	1,860	1,627	1,593
Frye Regional Medical Center	715	815	837	836	970	1107	1057	1061	1300	1487
Gaston Memorial	--	449	630	613	1,170	990	1,233	778	837	719
High Point Regional Hospital	747	801	823	1,426	1,547	1,638	1,762	1,060	856	998
Mission Hospitals	782	778	944	1,166	1,237	1,211	1,326	1,376	1,482	1,347
Moses Cone	1,552	1,629	1,816	1,789	1,808	1,944	1,855	1,712	1,850	1,546
N. C. Baptist Hospital	1,510	1,673	1,875	1,598	1,600	1,389	1,383	1,407	1,380	1,105
New Hanover Reg. Med. Center	737	1,190	1,251	1,242	1,318	1,217	1,571	1,846	1,889	1,983
CMC-Northeast Medical Center	322	328	340	433	411	629	597	686	719	631
Pitt County Memorial	1,593	1,635	1,642	1,637	1,838	2,101	2,124	1,807	1,481	1,611
Presbyterian Hospital	1,612	1,500	1,490	1,696	1,758	1,850	1,917	1,864	1,541	1,400
Presbyterian Hosp-Matthews	--	--	--	--	--	--	--	3	0	0
Rex Hospital	679	799	930	1,181	984	1,215	1,237	1,128	1,102	960
Rowan Reg. Med. Center	--	--	--	--	--	--	--	--	--	26
Southeastern Regional Medical Center	--	--	--	--	--	--	--	--	--	132
UNC Hospitals	245	276	301	327	488	536	549	674	632	733
WakeMed	1,883	2,050	2,474	2,685	3,011	3,427	3,787	3,751	3,521	3,654
WakeMed Cary	--	--	--	--	--	--	2	0	2	7
TOTAL	19,352	21,007	23,012	25,125	27,290	30,029	30,771	28,659	27,713	27,102

Source: Division of Health Service Regulation Annual License Renewal Application (Note: Two additional procedures were reported by Presbyterian Hospital-Huntersville through its mobile vendor, MedCath. One additional procedure was reported in 2001 by Columbus County Hospital through its Mobile Vendor, Duke University Hospital.)

* The total number of PTCA procedures hospitals reported beginning with the 1999 Hospital License Renewal Application includes procedures coded ICD 36.06 -- Insertion of coronary artery stent(s).

Table 9Q: Fixed Cardiac Catheterization Equipment, Capacity and Volume

County	Facility	Current Inventory	CON Issued/ Pending Development	Pending Review or Appeal	Total Planning Inventory	F o o t n o t e	2007 Procedures (Weighted Totals)	Machines Required based on 80% utilization	Total No. of Additional Machines Required by Facility	No. of Machines Needed
Alamance	Alamance Regional	1			1	b	1,097	0.91	0	
	Pending Review/ Appeal			0	0					
	TOTAL				1			1		0
Buncombe	Mission Hospitals	5	1		6	a	6,762	5.64	0	0
	Pending Review/ Appeal				0	c				
	TOTAL				6			6		0
Cabarrus	NorthEast	2			2	b	2,067	1.72	0	
	Pending Review/ Appeal			0	0					
	TOTAL				2			2		0
Catawba	Catawba Valley	1			1	b	669	0.56	0	0
	Frye Regional	3	0		3	b	5,727	4.77	2	
	Pending Review/ Appeal			1	1					
Cleveland	TOTAL				5			5		0
	Cleveland Regional	1			1	c	425	0.35	0	
	Pending Review/ Appeal			0	0					
Craven	TOTAL				1			0		0
	Craven Regional	2			2	b	2,419	2.02	0	
	Pending Review/ Appeal			0	0					
Cumberland	TOTAL				2			2		0
	Cape Fear Valley	2	1		3	b	1,880	1.57	0	
	Pending Review/ Appeal			0	0					
	TOTAL				3			2		0

Table 9Q: Fixed Cardiac Catheterization Equipment, Capacity and Volume

County	Facility	Current Inventory	CON Issued/ Pending Development	Pending Review or Appeal	Total Planning Inventory	2007 Procedures (Weighted Totals)	Machines Required based on 80% utilization	Total No. of Additional Machines Required by Facility	No. of Machines Needed
Durham	Duke	7			7	6,799	5.67	0	
	Durham Regional	2	0	0	2	1,150	0.96	0	
	Pending Review/ Appeal TOTAL			0	0				
Forsyth	Forsyth Medical Center	6	2		9		7		0
	N. C. Baptist	5	0		8	6,223	5.19	0	
	Pending Review/ Appeal TOTAL				5	3,910	3.26	0	
Gaston	Gaston Memorial	3	1		13		8		0
	Pending Review/ Appeal			0	4	3,405	2.84	0	
	TOTAL				0				
Guilford	High Point Regional	4	0		4	3,676	3.06	0	
	Moses Cone	7	2		9	5,651	4.71	0	
	Pending Review/ Appeal			0	0				
	TOTAL				13		8		0
Haywood	Haywood Regional	1			1	286	0.24	0	
	Pending Review/ Appeal			0	0				
	TOTAL				1		0		0
Iredell	Iredell Memorial	1			1	466	0.39	0	
	Davis Regional	1			1	328	0.27	0	
	Lake Norman Regional	1	0		1	178	0.15	0	
	Pending Review/ Appeal TOTAL			0	0				
Johnston	Johnston Memorial	1	0		3		1		0
	Pending Review/ Appeal			0	1	864	0.72	0	
	TOTAL				1		1		0

Table 9Q: Fixed Cardiac Catheterization Equipment, Capacity and Volume

County	Facility	Current Inventory	CON Issued/ Pending Development	Pending Review or Appeal	Total Planning Inventory	Footnote	2007 Procedures (Weighted Totals)	Machines Required based on 80% utilization	Total No. of Additional Machines Required by Facility	No. of Machines Needed
Lenoir	Lenoir Memorial	1			1	c	471	0.39	0	
	Pending Review/ Appeal			0	0					
	TOTAL				1			0		0
Mecklenburg	Carolinas Med. Center	7			7	a	7,623	6.35	0	
	CMC Mercy-Pineville	4			4	b	2,354	1.96	0	
	Presbyterian	4			4	b	4,262	3.55	0	
	CMC-University	1	0		1	c	207	0.17	0	
	Presbyterian-Matthews	1			1	c	457	0.38	0	
	Pending Review/ Appeal			0	0					
TOTAL					17			12		0
Moore	First Health Moore	5	0	0	5	b	6,523	5.44	0	
	Pending Review/ Appeal			1	1					
	TOTAL				6			5		0
Nash	Nash General	2			2	c	967	0.81	0	
	Pending Review/ Appeal			0	0					
	TOTAL				2			1		0
New Hanover	New Hanover Reg.	3	2	0	5	b	6,189	5.16	0	
	Pending Review/ Appeal			0	0					
	TOTAL				5			5		0
Onslow	Onslow Memorial	1			1	c	153	0.13	0	
	Pending Review/ Appeal			0	0					
	TOTAL				1			0		0
Orange	UNC	4	0	0	4	a	3,790	3.16	0	
	Pending Review/ Appeal			0	0					
	TOTAL				4			3		0

Table 9Q: Fixed Cardiac Catheterization Equipment, Capacity and Volume

County	Facility	Current Inventory	CON Issued/ Pending Development	Pending Review or Appeal	Total Planning Inventory	2007 Procedures (Weighted Totals)	Machines Required based on 80% utilization	Total No. of Additional Machines Required by Facility	No. of Machines Needed
Pasquotank	Albemarle	1			1	1,104	0.92	0	
	Pending Review/ Appeal			0	0				
	TOTAL				1				0
Pitt	Pitt County Memorial	5	2		7	6,366	5.31	0	0
	Pending Review/ Appeal			0	0				
	TOTAL				7				0
Robeson	Southeastern Regional	1			1	1,188	0.99	0	
	Pending Review/ Appeal			0	0				
	TOTAL				1				0
Rowan	Rowan Regional	1			1	408	0.34	0	
	Pending Review/ Appeal			0	0				
	TOTAL				1				0
Stanly	Stanly Reg. Medical Center	1			1	57	0.05	0	
	Pending Review/ Appeal			0	0				
	TOTAL				1				0
Union	CMC-Union	1			1	619	0.52	0	
	Pending Review/ Appeal			0	0				
	TOTAL				1				0
Wake	Rex	3	1		4	3,557	2.96	0	
	WakeMed	9	1		10	11,657	9.71	0	
	WakeMed Cary Hospital	1			1	418	0.35	0	
	DukeHealth Raleigh	1	0		1	357	0.30	0	
	Pending Review/ Appeal			0	0				
TOTAL				16		13		0	

Table 9Q: Fixed Cardiac Catheterization Equipment, Capacity and Volume

County	Facility	Current Inventory	CON Issued/ Pending Development	Pending Review or Appeal	Total Planning Inventory	2007 Procedures (Weighted Totals)	Machines Required based on 80% utilization	Total No. of Additional Machines Required by Facility	No. of Machines Needed
Watauga	Watauga Medical Center	0	1		1	93	0.08	0	
	Pending Review/ Appeal			0	0				
	TOTAL				1		0		0
Wayne	Wayne Memorial	1			1	346	0.29	0	
	Pending Review/ Appeal			0	0				
	TOTAL				1		0		0
Wilkes	Wilkes Regional	1			1	34	0.03	0	
	Pending Review/ Appeal			0	0				
	TOTAL				1		0		0
Wilson	Wilson Medical Center	1			1	464	0.39	0	
	Pending Review/ Appeal			0	0				
	TOTAL				1		0		0
NORTH CAROLINA TOTALS		116	14	2	132	113,643	95		0

a Adult procedures plus angioplasty x 1.75 plus pediatric procedures x 2.

b Adult procedures plus angioplasty x 1.75.

c Adult procedures.