

Appendix 2A. Tables

Table 2-1. McGuire Nuclear Station Population Distribution by Sector [HISTORICAL INFORMATION NOT REQUIRED TO BE REVISED]

(Miles)							
	0-5	5-10	10-20	20-30	30-40	40-50	Total
1970							
N	55	718	4,142	29,985	6,845	7,346	49,091
NNE	147	442	6,528	9,684	7,043	9,345	33,189
NE	233	4,500	12,169	6,437	16,910	24,913	65,162
ENE	277	1,394	13,825	25,405	39,225	19,648	99,774
E	250	1,768	24,833	30,649	6,961	22,790	87,251
ESE	226	2,970	6,010	6,657	9,562	10,312	35,737
SE	294	2,062	55,535	17,096	18,957	15,073	109,017
SSE	160	3,290	188,758	37,884	12,816	10,908	253,816
S	99	4,382	25,990	13,752	46,913	11,600	102,736
SSW	45	4,400	27,765	7,119	12,372	5,605	57,306
SW	332	2,460	63,986	20,367	5,400	6,040	98,575
WSW	358	3,625	12,408	21,155	33,627	32,019	103,192
W	178	1,670	13,900	12,700	15,271	10,252	53,971
WNW	201	1,290	6,612	7,850	12,501	34,916	63,370
NW	299	513	8,495	34,603	46,947	41,493	132,350
NNW	321	425	4,133	9,729	12,763	8,380	35,751
TOTAL	3,465	35,909	475,089	291,072	304,113	270,640	1,380,288
1980							
N	67	882	4,816	34,475	8,003	8,290	56,533

(Miles)							
	0-5	5-10	10-20	20-30	30-40	40-50	Total
NNE	190	514	7,502	11,042	8,188	10,793	38,229
NE	308	5,763	13,889	6,935	19,297	30,529	76,721
ENE	359	1,800	14,950	27,373	42,321	24,192	110,995
E	325	2,293	26,863	33,060	7,367	23,776	93,684
ESE	293	3,852	7,207	7,181	10,014	10,663	39,210
SE	382	2,674	72,024	21,823	22,347	17,528	136,778
SSE	208	4,267	244,826	48,947	15,087	12,634	325,969
S	146	5,681	33,710	16,799	54,493	13,065	123,894
SSW	53	5,143	32,082	8,262	14,373	6,102	66,015
SW	369	2,826	73,510	23,376	6,277	7,048	113,406
WSW	405	4,163	14,254	23,604	36,798	36,450	115,674
W	202	1,890	15,786	14,414	16,638	10,842	59,772
WNW	227	1,460	7,501	9,065	14,157	39,316	71,726
NW	339	581	9,988	40,934	54,604	46,487	152,933
NNW	363	485	4,888	11,470	15,404	9,585	42,195
TOTAL	4,236	44,274	583,796	338,760	345,368	307,300	1,623,734
1990							
N	75	1,015	5,564	39,458	9,173	9,198	64,483
NNE	221	589	8,584	12,555	9,559	12,238	43,746
NE	350	6,669	15,802	7,507	21,439	36,229	87,996
ENE	417	2,086	16,498	29,742	45,878	29,064	123,685
E	376	2,657	30,383	37,345	8,121	25,963	104,845

(Miles)							
	0-5	5-10	10-20	20-30	30-40	40-50	Total
ESE	340	4,464	8,209	8,117	10,968	11,606	43,704
SE	442	3,099	83,454	25,245	25,636	20,013	157,889
SSE	241	4,944	283,674	56,694	17,200	13,794	376,547
S	168	6,581	39,059	19,118	61,022	13,955	139,903
SSW	61	5,908	36,806	9,335	16,115	6,532	74,757
SW	424	3,240	84,288	26,646	7,096	7,997	129,691
WSW	449	4,770	16,344	27,051	42,139	41,338	132,091
W	224	2,095	17,619	16,362	19,050	11,838	67,188
WNW	253	1,618	8,335	10,310	16,125	44,516	81,157
NW	376	644	11,619	47,978	62,361	52,705	175,683
NNW	403	543	5,730	13,384	17,702	10,604	48,366
TOTAL	4,820	50,922	671,968	386,847	389,584	347,590	1,851,731
(Actual) 1990 ¹							
N	972	2,924	6,202	29,292	8,361	7,503	55,254
NNE	879	3,511	8,964	16,358	8,318	11,016	49,046
NE	2,408	8,723	16,192	9,135	19,996	35,307	91,761
ENE	2,051	2,794	23,731	32,591	42,862	31,181	135,210
E	1,083	2,189	34,098	28,208	9,342	25,058	99,978
ESE	2,171	3,473	15,434	13,562	13,653	10,917	59,210
SE	1,079	2,812	80,189	52,387	26,920	16,109	179,496
SSE	359	5,502	152,941	120,363	19,899	12,763	311,827

	(Miles)						
	0-5	5-10	10-20	20-30	30-40	40-50	Total
S	334	6,161	40,023	53,311	62,079	13,086	174,994
SSW	182	5,889	33,259	13,367	25,632	6,041	84,370
SW	788	2,828	68,654	29,011	6,873	7,446	115,600
WSW	1,016	4,822	18,120	28,920	44,248	36,224	133,350
W	327	1,385	17,179	14,377	13,204	12,682	59,154
WNW	601	756	15,888	7,879	11,533	39,654	76,311
NW	1,494	984	10,726	49,400	60,681	51,858	175,143
NNW	1,797	4,211	6,718	14,249	18,276	9,974	55,225
TOTAL	17,541	58,964	548,318	512,410	391,877	326,819	1,855,929
2000							
N	85	1,182	6,445	45,277	10,707	10,246	73,942
NNE	262	679	9,848	14,385	10,628	13,874	49,676
NE	415	7,877	18,108	8,508	24,625	43,281	102,814
ENE	492	2,468	18,773	33,732	52,039	34,972	142,476
E	446	3,148	34,742	42,676	9,192	29,225	119,429
ESE	402	5,288	9,658	9,277	12,345	13,003	49,973
SE	524	3,672	98,874	29,726	29,101	22,675	184,572
SSE	284	585	338,105	67,063	19,524	15,606	441,167
S	173	7,798	46,278	22,156	69,262	15,475	161,142
SSW	71	6,880	42,781	10,683	18,293	7,039	85,747
SW	491	3,763	97,864	30,688	8,077	9,124	150,007
WSW	487	5,531	18,978	30,834	47,325	46,766	149,921

(Miles)							
	0-5	5-10	10-20	20-30	30-40	40-50	Total
W	240	2,250	19,245	18,493	21,350	12,814	74,392
WNW	271	1,737	8,989	11,556	18,517	51,148	92,218
NW	402	691	13,494	56,355	74,079	61,434	206,455
NNW	432	593	6,730	15,686	21,301	12,047	56,789
TOTAL	5,477	54,142	788,912	447,095	446,365	398,729	2,140,720
2010							
N	98	1,369	7,405	51,301	12,153	11,485	83,811
NNE	307	772	11,158	16,315	12,220	15,970	56,742
NE	487	9,212	20,535	9,723	28,592	51,255	119,804
ENE	579	2,894	21,320	38,498	59,510	41,495	164,296
E	522	3,694	39,114	48,021	10,506	33,796	135,653
ESE	472	6,205	11,152	10,437	14,212	14,896	57,374
SE	614	4,308	116,016	34,579	32,045	24,984	212,546
SSE	334	6,874	394,383	78,515	21,555	17,486	519,147
S	204	9,150	54,302	25,300	76,992	17,193	183,141
SSW	83	8,026	49,866	12,069	20,326	7,634	98,004
SW	571	4,384	114,032	35,188	9,091	10,351	173,617
WSW	552	6,442	22,113	34,761	51,928	52,783	168,579
W	272	2,558	21,997	21,214	23,362	14,047	83,450
WNW	308	1,974	10,232	13,337	21,086	58,068	105,005
NW	459	785	15,760	66,067	85,460	68,121	236,652
NNW	491	678	1,889	18,279	24,259	13,471	59,067

(Miles)							
	0-5	5-10	10-20	20-30	30-40	40-50	Total
TOTAL	6,353	69,325	911,274	513,604	503,297	453,035	2,445,888
2020							
N	114	1,600	8,278	56,493	13,473	12,870	92,828
NNE	372	860	12,288	17,955	13,643	18,104	63,222
NE	591	11,093	22,602	10,653	32,036	59,552	136,527
ENE	703	3,035	23,403	42,187	65,260	48,406	182,994
E	635	4,487	43,044	52,741	11,519	37,081	149,507
ESE	573	7,537	13,054	11,462	15,552	16,389	64,567
SE	746	5,233	140,905	41,327	34,300	26,836	213,347
SSE	407	8,349	479,003	94,972	23,267	19,872	625,870
S	246	11,109	65,954	29,837	88,050	19,633	214,829
SSW	95	9,204	56,768	13,782	23,229	8,386	111,464
SW	648	4,973	129,341	39,792	10,418	11,933	197,105
WSW	603	7,301	25,081	37,917	54,926	59,528	185,356
W	297	2,788	24,207	23,562	24,536	14,967	90,357
WNW	335	2,151	11,183	14,880	23,253	63,831	115,633
NW	499	855	17,891	75,396	96,145	74,039	264,825
NNW	535	747	9,002	20,735	27,216	15,014	73,249
TOTAL	7,399	81,322	1,082,004	583,691	556,823	506,441	2,817,680

Note:

1. Census Data

Table 2-2. Public Facilities and Institutions [HISTORICAL INFORMATION NOT REQUIRED TO BE REVISED]

	Name	Population ¹	Distance	Direction
<u>Libraries</u>				
L-1	Huntersville Public Library	193	6.2	ESE
L-2	Cornelius Public Library	165	5.8	ESE
L-3	Davidson Public Library	140	7.6	NE
<u>Parks</u>				
P-1	Westcreek Recreation Center	Unknown	8.7	SSW
P-2	Craig Memorial Park	Unknown	9.5	WSW
P-3	Coulwood Park	300	9.2	S
P-4	Ramsey Creek Park		3	NNE
P-5	Jetton Road Park		3	NNE
<u>Prison Camps</u>				
PC-1	N.C. Dept of Correction	66	5.7	ESE
<u>Schools</u>				
S-1	Davidson College	1690	7.7	NE
S-2	John McKnitt Alexander Junior High	1320	7.1	ESE
S-3	North Mecklenburg High School	1475	7.6	SE
S-4	Huntersville Elementary School	850	5.7	ESE
S-5	Long Creek Elementary School	639	6.5	SSE
S-6	O. L. Kiser Elementary School	530	9.2	WSW
S-7	Pinewood Elementary School	554	7.7	SSW
S-8	Paw Creek Elementary School	620	9.6	S
S-9	Oakdale Elementary School	512	9.5	SSE
S-10	Calvery Christian School	270	8.8	S
S-11	Coulwood Middle School	820	8.8	S
S-12	Mt. Mourne School	775	9.8	NE
S-13	Cornelius Elementary School	724	5.9	ESE
S-14	Catawba Spring Elementary School	570	4.3	WNW
S-15	Rock Springs Elementary	543	7.5	NNW
S-16	East Lincoln High School	925	4.4	WNW

	Name	Population ¹	Distance	Direction
S-17	East Lincoln Middle School	812	4.6	WNW
S-18	Hornets Nest Elementary School	850	10.0	SSE
S-19	Stanley Jr. High School	470	9.5	WSW
<u>Hospitals</u>				
H-1	Huntersville Hospital	879	6.5	ESE

Note:

1. Population figures reported are for average daily attendance.

Table 2-3. Principle Food Crops Acreage and Yield¹ (1993)

County	Harvested Cropland 1993 (Thous. Acres)	Corn		
		Acreage	Harvested	Yld/Acre Bush.
Alexander	17,100	4,000	7,000	53
Anson	21,800	5,300	4,500	56
Burke	8,800	2,000	1,500	82
Cabarrus	18,400	3,300	1,500	43
Caldwell	6,600	2,000	1,000	44
Catawba	19,300	4,900	2,300	32
Cleveland	31,700	3,900	2,100	45
Davidson	28,400	6,900	4,000	34
Davie	22,000	7,000	2,900	53
Forsyth	17,000	2,400	1,300	48
Gaston	13,100	3,400	500	16
Iredell	46,400	13,400	2,600	65
Lincoln	22,400	4,300	1,600	15
Mecklenburg	9,700	1,500	100	30
Montgomery	7,700	2,000	1,500	41
Rowan	38,600	10,100	3,300	46
Rutherford	13,000	1,300	700	54
Stanly	44,000	14,800	13,000	52
Union	84,800	22,800	21,000	26
Wilkes	22,000	3,300	1,000	44
Yadkin	36,500	13,000	8,800	46

County	Sorghom		
	Acreage	Harvested	Yld/Acre Bush
Alexander			
Anson	850	650	36
Burke			

County	Sorghom		
	Acreage	Harvested	Yld/Acre Bush
Cabarrus	1,700	1,400	52
Caldwell			
Catawba			
Cleveland	850	650	44
Davidson	700	100	34
Davie			
Forsyth			
Gaston			
Iredell	750	150	40
Lincoln			
Mecklenburg	250	150	44
Montgomery			
Rowan	200	100	37
Rutherford	50	50	42
Stanly	200	150	50
Union	850	650	34
Wilkes			
Yadkin	150	50	44

County	Wheat		
	Acreage	Harvested	Yield
Alexander	300	300	27
Anson	4,200	3,800	44
Burke	200	200	35
Cabarrus	3,800	3,400	31
Caldwell	300	300	40
Catawba	3,000	2,700	41
Cleveland	4,500	4,100	30
Davidson	2,100	1,900	35
Davie	3,000	2,800	44
Forsyth	1,000	900	44

County	Wheat		
	Acreage	Harvested	Yield
Gaston	1,400	1,200	30
Iredell	3,700	2,700	32
Lincoln	2,500	2,200	39
Mecklenburg	1,100	600	32
Montgomery	1,000	900	36
Rowan	6,200	5,600	41
Rutherford	500	500	34
Stanly	9,000	8,500	34
Union	27,000	25,400	35
Wilkes	100	100	40
Yadkin	3,100	2,700	44

County	Soybeans		
	Acreage	Harvested	Yield
Alexander	150	150	20
Anson	9,000	8,200	25
Burke	300	250	20
Cabarrus	3,400	2,800	21
Caldwell	700	600	22
Catawba	3,300	2,900	23
Cleveland	6,500	6,000	20
Davidson	4,000	3,400	19
Davie	3,250	2,700	19
Forsyth	2,300	1,850	21
Gaston	600	500	18
Iredell	2,500	2,300	19
Lincoln	3,700	3,000	17
Mecklenburg	400	350	20
Montgomery	1,300	1,100	22
Rowan	6,600	5,900	24
Rutherford	900	790	19

County	Soybeans		
	Acreage	Harvested	Yield
Stanly	16,000	15,000	24
Union	44,900	41,500	19
Wilkes	300	300	20
Yadkin	6,200	5,400	23

County	Oats		
	Acreage	Harvested	Yield
Alexander	100	50	60
Anson	600	300	56
Burke	200	100	49
Cabarrus	900	450	45
Caldwell			
Catawba	400	200	65
Cleveland	1,100	550	52
Davidson	1,300	650	60
Davie	500	250	60
Forsyth	400	200	64
Gaston	1,000	500	48
Iredell	300	150	60
Lincoln	700	350	52
Mecklenburg	200	100	53
Montgomery	400	200	49
Rowan	900	450	63
Rutherford	200	100	51
Stanly	1,000	500	55
Union	2,200	1,100	47
Wilkes			
Yadkin	950	500	54

County	Barley		
	Acreage	Harvested	Yield

County	Barley		
	Acreage	Harvested	Yield
Alexander	60	50	50
Anson	750	600	59
Burke	200	150	56
Cabarrus	700	550	57
Caldwell	200	150	50
Catawba	1,050	850	63
Cleveland	1,500	1,200	55
Davidson	1,350	1,100	67
Davie	300	250	66
Forsyth	60	50	48
Gaston	750	600	54
Iredell	1,400	1,100	58
Lincoln	1,500	1,200	56
Mecklenburg	240	200	54
Montgomery	60	50	56
Rowan	2,900	2,300	65
Rutherford	70	50	56
Stanly	1,500	1,200	56
Union	500	400	55
Wilkes			
Yadkin	1,100	850	62

Table 2-4. Fish Species Composition and Abundance. Monetary value of fishes collected by population sampling with rotenone in covers #1 and #6, Lake Norman, September, 1968. ^{1,2}

Species	Inch Class	Number of fish	Weight (lbs.)	Value Of Each Fish	Value/ lb.	Value/ Inch Class
Bluegill	1	1017		\$.10	\$	\$ 101.70
	2	1014		.15		152.10
	3	522		.20		104.40
	4	263		.25		65.75
	5	141		.35		49.35
	6	32		.60		19.20
	7	6		1.00		6.00
Total Value/Species						498.50
Bullheads	2	19		.03		.57
	3	146		.04		5.84
	4	22		.05		1.10
	5	55		.07		3.85
	6	8		.10		.80
	7	17		.12		2.04
	8	5		.15		.75
	9	3		.20		.60
	10	1		.25		.25
Total Value/Species						15.80
Carp	10	1		.15		.15
	11	1		.15		.15
	14	6	7.3		.20	1.46
	15	4	6.1		.20	1.22
	16	1	2.0		.20	.40
Total Value/Species						3.38
Channel Catfish	6	2		.10		.20
Total Value/Species						.20
Johnny Darter	2	10		.10		1.00
Total Value/Species						1.00
Largemouth Bass	2	51		.25		12.75

Species	Inch Class	Number of fish	Weight (lbs.)	Value Of Each Fish	Value/ lb.	Value/ Inch Class
	3	5		.35		1.75
	4	3		.50		1.50
	5	2		.65		1.30
	6	7		.75		5.25
	7	3		1.00		3.00
	8	1		1.25		1.25
	9	3		1.50		4.50
	10	4		1.75		7.00
	11	3		2.00		6.00
	12	1		2.25		2.25
	13	1	1.2		2.50	3.00
	16	2	4.0		2.50	10.00
	18	1	3.3		2.50	8.25
Total Value/Species						67.80
Moxostoma sp.	14	5	6.0		.30	1.80
	15	3	3.9		.30	1.17
	17	2	4.1		.30	1.23
Total Value/Species						4.20
Notropis sp.	2	89		.03		2.67
	3	24		.03		.72
Total Value/Species						3.39
Pumpkinseed	3	13		.20		2.60
	4	8		.25		2.00
Total Value/Species						4.60
Redbreast Sunfish	1	65		.10		6.50
	2	98		.15		14.70
	3	150		.20		30.00
	4	97		.25		24.25
	5	80		.35		28.00
	6	13		.60		7.80
Total Value/Species						111.25

Species	Inch Class	Number of fish	Weight (lbs.)	Value Of Each Fish	Value/ lb.	Value/ Inch Class
Threadfin and Gizzard Shad	2	410		.02		8.20
	3	191		.02		3.82
	4	82		.04		3.28
	5	4		.04		.16
	6	14		.04		.58
	7	488		.06		29.28
	8	249		.06		14.94
	9	194		.08		15.52
	10	58		.08		4.64
	11	2		.10		.20
	Total Value/Species					80.60
Warmouth	1	28		.10		2.80
	2	33		.15		4.95
	3	37		.20		7.40
	4	22		.25		5.50
	5	15		.35		5.25
	6	2		.60		1.20
	Total Value/Species					27.10
White Catfish	2	3		.03		.09
	3	9		.04		.36
	9	2		.20		.40
	10	1		.25		.25
	11	1		.30		.30
	Total Value/Species					1.40
White Crappie	7	12		.60		7.20
	8	3		.75		2.25
	Total Value/Species					9.45
Yellow Perch	2	448		.10		44.80
	3	9		.15		1.35
	4	53		.20		10.60

Species	Inch Class	Number of fish	Weight (lbs.)	Value Of Each Fish	Value/ lb.	Value/ Inch Class
	5	9		.25		2.25
	6	5		.30		1.50
	7	2		.35		.70
Total Value/Species						61.20

Note:

1. Based upon published and unpublished data for the report "Effects of Thermal Pollution Upon Lake Norman Fishes, July 1, 1968, to January 31, 1969" by William D. Adair and Jimmy B. Looper, North Carolina Wildlife Resources Commission.
2. The combined area of the two coves surveyed equals 2.42 surface acres

Table 2-5. Industries Within 10 Miles [HISTORICAL INFORMATION NOT REQUIRED TO BE REVISED]

Key Symbol	Name	Number of Employees	Type of Business
M-1	B. R. Lee Corp.	45	Asphalt Paving Equipment
M-2	Freightliner Corporation	100	Truck Parts
M-3	Talon Inc.	200	Nylon Zippers
M-4	Gaston Co. Dyeing Machine Co.	519	Textile Equipment
M-5	Queens Group	65	Boxes
M-6	Burlington Industries	280	Manmade Staple Fiber
M-7	Rubbermaid	170	Patio Furniture
M-8	Blum Manufacturing	200	Hinges, door slides
M-9	Mt. Holly Spinning		Textiles
M-10	Bridgeport Fabrics	30	Textiles
M-11	Carolina Tractor	420	Repairing Caterpillar Machinery
M-12	Dimetrics	180	Automatic Welding Systems
M-13	Elox Corporation	90	Electrical Discharge Machinery
M-14	Flair Filtration	90	Man. Air-Oil Separators
M-15	Florida Steel	280	Steel
M-16	Industrial Dynamics	20	Metal Stamping
M-17	Ingersoll Rand	750	Air Compressors
M-18	International Dyeing Equipment	65	Dyeing Machinery
M-19	J. P. Stevens	400	Textiles
M-20	Stanley Knitware	90	Cotton T-Shirts
M-21	Maintenance Supply	96	Industrial Janitorial Supplies
M-22	Mt. Holly Spinning	75	Textiles
M-23	Piedmont Natural Gas	10	Liquify Natural Gas
M-24	Praxair Surface Technologies	52	Laser Engraving
M-25	R. Anell Homes Inc.	150	Mobile Homes
M-26	Hedrick, Lucia Quarry		Rock Quarry

Table 2-6. Annual Aircraft Operations. Douglas International Airport

Category	Actual			Actual	Actual
	FY 1975	FY 1980	FY 1985	1994 ¹	1999 ¹
Air Carrier	63,000	77,000	91,000	271,543	257,724
Air Taxi	10,000	14,000	19,000	136,227	132,776
Other Itinerant	107,000	157,000	190,000	51,389	47,393
Local	11,000	25,000	40,000		
Military				3,835	3,968
TOTAL	191,000	272,000	340,000	462,994	441,861

Note:

Source: FAA Terminal Area Forecast 1977-1987

1. Phone Conversation with Charlotte Douglas Airport Operations, Doug Boggs, 704-359-4012

Table 2-7. Mix of Aircraft Types. Douglas International Airport

Aircraft Class ¹	Aircraft Type	Percent of Operations		
		1975	1980	1985
A	DC-10; L-1011; B-707; DC-8, 747, 757, 767, 777	1	3	3
B	DC-9; B-727; B-737, MD-80	32	29	27
C	King Air, Falcon, Air Taxi	9	10	10
D&E	Cessna 310, 320 and 411, Queen Air; Piper Apache, Aztec, Cessna 150, 210; etc.	58	58	60

Note:

1. As defined in FAA AC 150/5060-1A

Table 2-8. McGuire Nuclear Station Traffic Counts¹

Leg	1970	1971	1972	1973	1974	1993
Intersection of NC 16 with NC 150 (Catawba Co.)						
NC 16 N.	4,900	5,100	5,400	5,800	5,900	6,700
NC 150 E.	2,600	2,700	2,900	3,200	3,200	8,200
NC 16 S.	5,400	5,600	5,900	6,200		10,100
NC 150 W.	2,250	2,250	2,350	2,550	2,700	7,700
Intersection of NC 16 with 73 (Lincoln Co.)						
NC 16 N.	5,400	5,400	5,400	6,500		11,500
NC 73 E.	1,500	1,600	1,650	1,650	1,650	3,900
NC 16 S.	6,000	6,000	6,000	7,000		10,700
NC 73 W.	1,050	1,100	1,150	1,150	1,200	5,300
Intersection of I-77 with NC 150 (Iredell Co.)						
I-77 N.					7,500	32,900
NC 150 E.	3,350	3,450	4,300	4,500	4,600	14,800
I-77 S.					5,200	34,400
NC 150 W.	3,050	3,100	3,200	3,200	3,200	16,200
Intersection of I-77 with NC 73 (Mecklenburg Co.)						
I-77 N.	6,400	6,600	7,400	7,400	10,000	50,500
NC 73 E.	3,200	3,200	3,200	3,200		3,800
I-77 S.	6,500	6,700	7,500	7,500	10,000	52,700
NC 73 W.	2,600	2,600	2,900	3,300		3,400

Note:

1. State of North Carolina, Department of Transportation and Highway Safety.

Table 2-9. McGuire Nuclear Station – Vicinity Climatology

	Temperature					Precipitation				Snow-Sleet			Fog	Humidity		Wind				
Month	Daily Maximum	Daily Minimum	Monthly	Record Highest	Record Lowest	Normal Monthly	Max. Monthly	Min. Monthly	Max. 24 hour	Normal Monthly	Max. Monthly	Maximum 24 Hour	Mean Number of Days*	Mean Relative Humidity	Mean Dew Point	Mean Speed	Prevailing Direction	Mean Resultant	Record Speed**	Record Direction
January	52.2	32.3	42.3	79	-3	3.68	10.39	0.51	3.61	1.5	13.5	10.2	4	72	32	7.4	SSW	WNW /3	57	SW
Feburary	54.9	33.8	44.4	82	-5	3.55	8.58	0.66	3.12	1.8	17.4	14.0	3	68	32	7.7	NE	---	54	SW
March	62.4	39.5	51.0	91	10	4.09	10.13	0.86	4.40	0.9	19.3	12.6	2	63	37	8.2	SW	---	47	W
April	71.4	47.9	59.7	96	24	3.17	9.01	0.63	4.08	0.1	3.5	3.5	1	62	46	7.9	SW	SW/3	53	NW
May	79.8	56.8	68.3	100	32	2.98	11.04	0.01	4.85	0.0	0.0	0.0	≠	68	57	6.7	SW	---	48	NW
June	87.6	65.6	76.6	103	45	3.51	11.04	0.50	3.86	0.0	0.0	0.0	≠	68	63	6.2	SW	---	57	NW
July	88.8	68.3	78.6	103	53	4.67	16.55	0.62	6.59	0.0	0.0	0.0	≠	75	67	5.9	SW	SSW/2	59	NW
August	87.4	67.2	77.3	103	53	4.36	14.61	0.61	4.64	0.0	0.0	0.0	1	78	67	5.9	NNE	---	54	NW
September	83.1	62.1	72.6	104	38	3.65	12.66	0.02	5.16	0.0	0.0	0.0	1	78	62	6.2	NE	---	47	NW
October	73.1	49.8	61.5	98	26	2.99	8.27	T	4.99	0.0	0.0	0.0	1	70	51	6.5	NNE	NNE/4	50	SW
November	61.4	39.4	50.4	85	11	2.65	8.41	0.23	3.05	T	2.5	2.5	2	69	38	6.8	SW	---	47	NW
December	53.0	33.0	43.0	79	-5	3.79	11.24	0.43	4.49	1.4	15.0	11.8	3	72	31	7.0	SW	---	57	NE
Year	71.3	49.6	60.5	104	-5	43.09	16.55	T	6.59	5.7	19.3	14.0	20	68	48	6.9	SW	---	57	NW
Key:	* Number of days of heavy fog (visibility equal to or less than ¼ mile) ** Speed based on fastest mile of air ≠ Less than ½ day										<u>Note:</u> Temperature and dew point in °F, precipitation and snow-sleet in Inches (T indicates trace of precipitation), relative humidity in %, wind speed in miles per hour.									

McGuire Nuclear Station - Vicinity Climatology

<u>Extreme Values</u>	<u>Date Occurred</u>											
	J	F	M	A	M	J	J	A	S	O	N	D
Record Highest Temperature	1944	1930	1907	1925	1941	1954	1952	1925	1954	1954	1950	1931
Record Lowest Temperature	1940	1899	1960	1923	1963	1889	1861	1887	1888	1952	1950	1880
Maximum Monthly Precipitation	1936	1929	1891	1936	1886	1886	1916	1908	1945	1893	1948	1931
Minimum Monthly Precipitation	1907	1938	1910	1915	1936	1935	1925	1972	1954	1953	1890	1965
Maximum 24 Hr. Precipitation	1936	1916	1912	1936	1886	1909	1944	1893	1928	1932	1948	1931
Maximum Monthly Snow/Sleet	1893	1902	1960	1880	--	--	--	--	--	--	1968	1880
Maximum 24 Hr. Snow/Sleet	1965	1902	1927	1880	--	--	--	--	--	--	1968	1882
Record Wind Speed (Fastest Mile)	1936	1958	1956	1958	1959	1957	1962	1954	1956	1954	1957	1954

Note: Extreme values initially presented in this table have been reviewed from the period of record through December, 1973 and updated accordingly.*

* Local Climatological Data, Annual Summary with Corporative Data, Charlotte, N.C.,

U.S. Dept. of Commerce, No AA, Environmental Data Service, 1960 and 1973.

McGuire Nuclear Station - Vicinity Climatology

Parameter	Station	Length of Record	Period of Record	Reference
Daily Maximum Temperature	Charlotte	30 yrsrs	1921 - 1950	Ref. 2, p. 11
Daily Minimum Temperature	Charlotte	30 years	1921 - 1950	Ref. 2, p. 11
Monthly Temperature	Charlotte	30 years	1921 - 1950	Ref. 2, p. 11
Record Highest Temperature	Charlotte	79 years	-----	Ref. 2, p. 11
Record Lowest Temperature	Charlotte	79 years	-----	Ref. 2, p. 11
Normal Monthly Precipitation	Charlotte	30 years	1921 - 1950	Ref. 2, p. 11
Maximum Monthly Precipitation	Charlotte	80 years	-----	Ref. 2, p. 11
Minimum Monthly Precipitation	Charlotte	80 years	-----	Ref. 2, p. 11
Maximum 24 hour Precipitation	Charlotte	79 years	-----	Ref. 2, p. 11
Normal Monthly Snow/Sleet	Charlotte	79 years	-----	Ref. 2, p. 11
Maximum Monthly Snow/Sleet	Charlotte	79 years	-----	Ref. 2, p. 11
Maximum 24 hour Snow/Sleet	Charlotte	79 years	-----	Ref. 2, p. 11
Mean Number of Days of Fog	Charlotte	79 years	1879 - 1957	Ref. 2, p. 11
Mean Relative Humidity	Raleigh/Charlotte	5 years	-----	Ref. 1, p. 61-62
Mean Dew Point	Raleigh/Charlotte	20 years	1946 - 1965	Ref. 1, p. 57-58
Mean Wind Speed	Charlotte	74 years	-----	Ref. 2, p. 11
Prevailing Wind Direction	Charlotte	8 years	-----	Ref. 2, p. 11
Mean Resultant Wind	Charlotte	10 years	1951 - 1960	Ref. 1, p. 78
Record Wind Speed	Charlotte	46 years	-----	Ref. 2, p. 11
Record Wind Direction	Charlotte	45 years	----	Ref. 2, p. 11

*The month and year data collection was initiated and the month and year through which data have been summarized for each station are not available in the references for each parameter above. Where such information is available it is provided; where this information is not available or where the period of record cannot be simply stated, the original data is designated.

1. Climate Atlas of the United States, U.S. Department of Commerce, June 1968.
2. Climate of the States, North Carolina, Climatology of the United States No. 60-31, U. S. Department of Commerce, February, 1960.

Table 2-10. McGuire Meteorological Survey Low Level Tower Data for Period of Oct. 17, 1970 thru Oct. 16, 1971.

SUMMARY OF PASQUILL A							WIND OCCURRENCES BY SECTOR - SPEED CLASS (NO, OCCURR, PERCENT)							DATE OF REPORT 6-21-73	
			WIND SPEED CLASS												
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S	AVG RECIP WS M/S		
360.0 -N-	NO PCT	17 0.22	1 0.01	2 0.02	5 0.06	4 0.05	3 0.04	0 0.00	1 0.01	1 0.01	0 0.00	0 0.00	0.3148		
22.5 -NNE-	NO PCT	33 0.42	1 0.01	3 0.04	12 0.15	5 0.06	7 0.09	4 0.05	1 0.01	0 0.00	0 0.00	0 0.00	0.2984		
45.0 -NE-	NO PCT	81 1.03	1 0.01	15 0.19	16 0.20	17 0.22	17 0.22	12 0.15	3 0.04	0 0.00	0 0.00	0 0.00	0.2998		
67.5 -ENE-	NO PCT	45 0.57	3 0.04	13 0.16	10 0.13	3 0.04	8 0.10	4 0.05	4 0.05	0 0.00	0 0.00	0 0.00	0.3470		
90.0 -E-	NO PCT	34 0.43	2 0.02	7 0.09	16 0.20	6 0.08	2 0.02	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0.3670		
112.5 -ESE-	NO PCT	53 0.68	5 0.06	20 0.25	13 0.16	15 0.19	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.4361		
135.0 -SE-	NO PCT	41 0.52	10 0.13	20 0.25	9 0.11	1 0.01	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.5337		
157.5 -SSE-	NO PCT	24 0.31	4 0.05	11 0.14	5 0.06	2 0.02	1 0.01	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0.4774		
180.0 -S-	NO PCT	16 0.20	5 0.06	7 0.09	2 0.02	0 0.00	1 0.01	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0.6209		
202.5 -SSW-	NO PCT	23 0.29	7 0.09	6 0.08	7 0.09	2 0.02	0 0.00	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0.5338		
225.0 -SW-	NO PCT	28 0.36	2 0.02	10 0.13	7 0.09	6 0.08	1 0.01	1 0.01	0 0.00	1 0.01	0 0.00	0 0.00	6.3886		
247.5 -WSW-	NO PCT	23 0.29	2 0.02	9 0.11	0 0.00	7 0.09	3 0.04	2 0.02	0 0.00	0 0.00	0 0.00	0 0.00	0.4275		
270.0 -W-	NO PCT	32 0.41	6 0.08	9 0.11	2 0.02	5 0.06	6 0.08	4 0.05	0 0.00	0 0.00	0 0.00	0 0.00	0.4090		
292.5 -WNW-	NO PCT	27 0.34	2 0.02	8 0.10	4 0.05	3 0.04	4 0.05	2 0.02	2 0.02	1 0.01	1 0.01	0 0.00	0.3637		
315.0 -NW-	NO PCT	11 0.14	2 0.02	3 0.04	2 0.02	1 0.01	0 0.00	1 0.01	0 0.00	1 0.01	0 0.00	1 0.01	0.3913		
337.5 -NNW-	NO PCT	20 0.25	5 0.06	8 0.10	4 0.05	2 0.02	0 0.00	0 0.00	1 0.01	0 0.00	0 0.00	0 0.00	0.5468		
CALM	NO	1													
TOTAL	PCT	0.01	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	NO	508	58	151	114	79	54	34	12	4	1	1			
	PCT	6.49	0.74	1.93	1.46	1.01	0.69	0.43	0.15	0.05	0.01	0.01			
AVERAGE WIND SPEED			7.17				TOTAL VALID OBSERVATIONS			7826		TOTAL OBSERVATIONS			8760

SUMMARY OF PASQUILL B+C							WIND OCCURRENCES BY SECTOR - SPEED CLASS (NO, OCCURR, PERCENT)							DATE OF REPORT 6-21-73				
			WIND SPEED CLASS															
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S	AVG RECIP WS M/S					
360.0 -N-	NO PCT	189 2.41	15 0.19	55 0.75	54 0.69	33 0.42	10 0.13	9 0.11	5 0.06	1 0.01	2 0.02	1 0.01	0.3982					
22.5 -NNE-	NO PCT	265 3.39	8 0.10	72 0.92	70 0.89	67 0.86	28 0.36	8 0.10	9 0.11	0 0.00	1 0.01	2 0.02	0.3450					
45.0 -NE-	NO PCT	547 6.99	28 0.36	138 1.76	184 2.35	129 1.65	50 0.64	17 0.22	0 0.00	0 0.00	0 0.00	1 0.01	0.3680					
67.5 -ENE-	NO PCT	405 5.17	25 0.32	149 1.90	126 1.61	68 0.87	27 0.34	9 0.11	0 0.00	0 0.00	0 0.00	1 0.01	0.4059					
90.0 -E-	NO PCT	251 3.21	15 0.19	88 1.12	88 1.12	44 0.56	16 0.20	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.4071					
112.5 -ESE-	NO PCT	110 1.41	18 0.23	54 0.69	26 0.33	9 0.11	3 0.04	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.5065					
135.0 -SE-	NO PCT	78 1.00	22 0.28	25 0.37	15 0.19	9 0.11	3 0.04	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.5959					
157.5 -SSE-	NO PCT	41 0.52	9 0.11	16 0.20	11 0.14	4 0.05	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.5424					
180.0 -S-	NO PCT	115 1.47	16 0.20	37 0.47	30 0.38	24 0.31	7 0.09	1 0.01	1 0.01	0 0.00	0 0.00	0 0.00	0.4568					
202.5 -SSW-	NO PCT	163 2.08	20 0.25	31 0.40	46 0.59	31 0.40	20 0.25	10 0.13	2 0.02	2 0.02	1 0.01	0 0.00	0.4012					
225.0 -SW-	NO PCT	248 3.17	25 0.32	38 0.49	61 0.78	44 0.56	29 0.37	21 0.27	19 0.24	8 0.10	0 0.00	3 0.04	0.3520					
247.5 -WSW-	NO PCT	168 2.15	16 0.20	36 0.46	34 0.43	21 0.27	18 0.23	15 0.19	12 0.15	14 0.18	2 0.02	0 0.00	0.3616					
270.0 -W-	NO PCT	142 1.81	9 0.11	31 0.40	28 0.36	33 0.42	18 0.23	11 0.14	7 0.09	4 0.05	1 0.01	0 0.00	0.3550					
292.5 -WNW-	NO PCT	137 1.75	13 0.16	22 0.28	29 0.37	22 0.28	14 0.18	24 0.31	7 0.09	2 0.02	1 0.01	3 0.04	0.3604					
315.0 -NW-	NO PCT	155 1.98	9 0.11	35 0.45	22 0.28	33 0.42	15 0.19	20 0.25	11 0.14	7 0.09	2 0.02	1 0.01	0.3400					
337.5 -NNW-	NO PCT	161 2.06	11 0.14	45 0.57	29 0.37	23 0.29	15 0.19	9 0.11	17 0.22	4 0.05	7 0.09	1 0.01	0.3509					
CALM	NO	5																
	PCT	0.06																
TOTAL	NO	3175	259	880	853	594	274	154	89	42	17	13						
	PCT	40.57	3.31	11.24	10.90	7.59	3.50	1.97	1.14	0.54	0.22	0.16						
AVERAGE WIND SPEED						7.37				TOTAL VALID OBSERVATIONS			7826		TOTAL OBSERVATIONS		8760	

SUMMARY OF PASQUILL D							WIND OCCURRENCES BY SECTOR - SPEED CLASS (NO, OCCURR, PERCENT)											
			DATE OF REPORT 6-21-73															
			WIND SPEED CLASS															
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S	AVG RECIP WS M/S					
360.0 -N-	NO PCT	107 1.37	7 0.09	25 0.37	28 0.36	11 0.14	10 0.13	6 0.08	6 0.08	7 0.09	1 0.01	2 0.02	0.3669					
22.5 -NNE-	NO PCT	112 1.43	15 0.19	40 0.51	24 0.31	14 0.18	10 0.13	5 0.06	3 0.04	1 0.01	0 0.00	0 0.00	0.4505					
45.0 -NE-	NO PCT	105 1.34	12 0.16	46 0.59	22 0.28	15 0.19	7 0.09	1 0.01	1 0.01	0 0.00	0 0.00	0 0.00	0.4561					
67.5 -ENE-	NO PCT	75 0.96	16 0.20	28 0.36	25 0.32	4 0.05	2 0.02	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.5293					
90.0 -E-	NO PCT	79 1.01	16 0.20	37 0.47	18 0.23	5 0.06	2 0.02	0 0.00	0 0.00	1 0.01	0 0.00	0 0.00	0.5498					
112.5 -ESE-	NO PCT	53 0.68	13 0.16	24 0.31	10 0.13	6 0.08	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.5470					
135.0 -SE-	NO PCT	55 0.70	22 0.28	19 0.24	9 0.11	3 0.04	1 0.01	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0.7598					
157.5 -SSE-	NO PCT	30 0.38	14 0.18	9 0.11	4 0.05	2 0.02	0 0.00	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0.7422					
180.0 -S-	NO PCT	87 1.11	22 0.28	22 0.28	15 0.19	15 0.19	8 0.10	4 0.05	1 0.01	0 0.00	0 0.00	0 0.00	0.5475					
202.5 -SSW-	NO PCT	144 1.84	22 0.28	27 0.34	22 0.28	22 0.28	21 0.27	12 0.15	8 0.10	8 0.10	0 0.00	2 0.02	0.3975					
225.0 -SW-	NO PCT	267 3.41	26 0.33	51 0.65	44 0.56	44 0.56	34 0.43	34 0.43	18 0.23	8 0.10	3 0.04	5 0.06	0.3553					
247.5 -WSW-	NO PCT	109 1.39	18 0.23	26 0.33	16 0.20	23 0.29	11 0.14	8 0.10	5 0.06	2 0.02	0 0.00	0 0.00	0.4300					
270.0 -W-	NO PCT	110 1.41	20 0.25	29 0.37	18 0.23	19 0.24	14 0.18	8 0.10	2 0.02	0 0.00	0 0.00	0 0.00	0.4716					
292.5 -WNW-	NO PCT	74 0.94	12 0.15	10 0.13	10 0.13	7 0.09	8 0.10	6 0.08	9 0.11	4 0.05	3 0.04	5 0.06	0.3580					
315.0 -NW-	NO PCT	54 0.69	10 0.13	17 0.22	6 0.08	9 0.11	4 0.05	4 0.05	1 0.01	2 0.02	1 0.01	0 0.00	0.4695					
337.5 -NNW-	NO PCT	57 0.73	8 0.10	15 0.19	9 0.11	9 0.11	6 0.08	4 0.05	4 0.05	2 0.02	0 0.00	0 0.00	0.4346					
CALM	NO PCT	12 0.15	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----						
TOTAL	NO PCT	1518 19.40	254 3.25	429 5.48	280 3.58	208 2.66	138 1.76	94 1.20	58 0.74	35 0.45	8 0.10	14 0.18						
AVERAGE WIND SPEED						7.20				TOTAL VALID OBSERVATIONS			7826		TOTAL OBSERVATIONS		8760	

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SUMMARY OF PASQUILL E							WIND OCCURRENCES BY SECTOR - SPEED CLASS (NO, OCCURR, PERCENT)							DATE OF REPORT 6-21-73	
			WIND SPEED CLASS												
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S	AVG RECIP WS M/S		
360.0 -N-	NO PCT	78 1.00	17 0.22	26 0.33	14 0.18	13 0.16	3 0.04	4 0.05	1 0.01	0 0.00	0 0.00	0 0.00	0.5193		
22.5 -NNE-	NO PCT	66 0.84	15 0.19	30 0.38	11 0.14	6 0.08	4 0.05	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.5749		
45.0 -NE-	NO PCT	86 1.10	22 0.28	40 0.51	19 0.24	4 0.05	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.5694		
67.5 -ENE-	NO PCT	38 0.49	9 0.11	18 0.23	10 0.13	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.6041		
90.0 -E-	NO PCT	35 0.45	15 0.19	16 0.20	4 0.05	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.7453		
112.5 -ESE-	NO PCT	31 0.40	17 0.22	10 0.13	3 0.04	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.8321		
135.0 -SE-	NO PCT	41 0.52	22 0.29	13 0.16	4 0.05	0 0.00	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.9543		
157.5 -SSE-	NO PCT	29 0.37	15 0.19	9 0.11	4 0.05	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.9271		
180.0 -S-	NO PCT	98 1.25	33 0.42	41 0.52	14 0.18	5 0.06	4 0.05	0 0.00	1 0.01	0 0.00	0 0.00	0 0.00	0.7357		
202.5 -SSW-	NO PCT	134 1.71	36 0.48	49 0.63	30 0.38	14 0.18	4 0.05	1 0.01	0 0.00	0 0.00	0 0.00	0 0.02	0.5775		
225.0 -SW-	NO PCT	167 2.13	50 0.64	66 0.84	31 0.40	11 0.14	0 0.11	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.6131		
247.5 -WSW-	NO PCT	70 0.89	28 0.36	22 0.28	12 0.15	3 0.04	4 0.05	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0.6665		
270.0 -W-	NO PCT	67 0.86	16 0.20	24 0.31	13 0.16	12 0.15	1 0.01	0 0.00	0 0.00	1 0.01	0 0.00	0 0.00	0.5831		
292.5 -WNW-	NO PCT	33 0.42	9 0.11	12 0.15	6 0.08	5 0.06	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.5590		
315.0 -NW-	NO PCT	48 0.61	14 0.18	14 0.18	10 0.13	5 0.06	3 0.04	1 0.01	1 0.01	0 0.00	0 0.00	0 0.00	0.5707		
337.5 -NNW-	NO PCT	36 0.46	4 0.05	6 0.08	10 0.13	5 0.06	7 0.09	4 0.05	0 0.00	0 0.00	0 0.00	0 0.00	0.4042		
CALM	NO	13													
TOTAL	PCT	0.16													
	NO	1057	323	396	195	86	42	11	3	1	0	0			
	PCT	13.51	4.13	5.06	2.49	1.10	0.54	0.14	0.04	0.01	0.00	0.00			
AVERAGE WIND SPEED			4.85			TOTAL VALID OBSERVATIONS			7826		TOTAL OBSERVATIONS			8760	

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SUMMARY OF PASQUILL F							WIND OCCURRENCES BY SECTOR - SPEED CLASS (NO, OCCURR, PERCENT)								DATE OF REPORT 6-21-73	
			WIND SPEED CLASS													
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S	AVG RECIP WS M/S			
360.0 -N-	NO PCT	27 0.34	14 0.18	10 0.13	2 0.02	0 0.00	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.8105			
22.5 -NNE-	NO PCT	29 0.37	16 0.20	11 0.14	2 0.02	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.8713			
45.0 -NE-	NO PCT	30 0.38	19 0.24	10 0.13	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.8504			
67.5 -ENE-	NO PCT	25 0.32	9 0.11	15 0.15	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.7666			
90.0 -E-	NO PCT	19 0.24	7 0.05	12 0.15	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.7047			
112.5 -ESE-	NO PCT	24 0.31	16 0.20	7 0.09	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1.0152			
135.0 -SE-	NO PCT	46 0.59	40 0.51	6 0.08	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1.2021			
157.5 -SSE-	NO PCT	57 0.73	35 0.45	18 0.23	3 0.04	0 0.00	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.9554			
180.0 -S-	NO PCT	94 1.20	49 0.63	36 0.46	9 0.11	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.8825			
202.5 -SSW-	NO PCT	94 1.20	44 0.56	42 0.54	6 0.08	1 0.01	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.8344			
225.0 -SW-	NO PCT	99 1.26	62 0.75	34 0.43	3 0.04	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.9638			
247.5 -WSW-	NO PCT	56 0.71	38 0.49	16 0.20	2 0.02	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	1.0023			
270.0 -W-	NO PCT	39 0.50	21 0.27	11 0.14	4 0.05	1 0.01	1 0.01	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0.8380			
292.5 -WNW-	NO PCT	37 0.47	15 0.19	14 0.18	4 0.05	2 0.02	2 0.02	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.7500			
315.0 -NW-	NO PCT	35 0.45	13 0.16	12 0.15	6 0.08	4 0.05	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.6353			
337.5 -NNW-	NO PCT	23 0.29	9 0.11	5 0.06	3 0.04	4 0.05	2 0.02	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.6474			
CALM	NO	34														
TOTAL	PCT	0.43	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----				
	NO	734	407	259	47	12	8	1	0	0	0	0				
	PCT	9.38	5.20	3.31	0.60	0.15	0.10	0.01	0.00	0.00	0.00	0.00				
AVERAGE WIND SPEED			3.24			TOTAL VALID OBSERVATIONS			7826		TOTAL OBSERVATIONS			8760		

SUMMARY OF PASQUILL G							WIND OCCURRENCES BY SECTOR - SPEED CLASS (NO, OCCURR, PERCENT)							DATE OF REPORT 6-21-73	
			WIND SPEED CLASS												
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S	AVG RECIP WS M/S		
360.0 -N-	NO PCT	23 0.29	16 0.20	8 0.08	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.0694		
22.5 -NNE-	NO PCT	17 0.22	12 0.15	4 0.05	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.1803		
45.0 -NE-	NO PCT	17 0.22	13 0.16	4 0.05	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.2298		
67.5 -ENE-	NO PCT	9 0.11	6 0.08	3 0.04	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.3637		
90.0 -E-	NO PCT	12 0.15	10 0.13	2 0.02	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.1037		
112.5 -ESE-	NO PCT	15 0.19	13 0.16	2 0.02	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.2774		
135.0 -SE-	NO PCT	29 0.37	25 0.32	4 0.05	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.3685		
157.5 -SSE-	NO PCT	47 0.60	42 0.54	5 0.06	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.2771		
180.0 -S-	NO PCT	129 1.65	102 1.30	24 0.31	1 0.01	1 0.01	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.4832		
202.5 -SSW-	NO PCT	134 1.71	120 1.53	13 0.16	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.5661		
225.0 -SW-	NO PCT	128 1.63	112 1.43	18 0.20	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.4291		
247.5 -WSW-	NO PCT	47 0.60	42 0.54	5 0.06	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.4274		
270.0 -W-	NO PCT	27 0.34	25 0.32	2 0.02	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.4140		
292.5 -WNW-	NO PCT	18 0.23	11 0.14	6 0.08	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.1697		
315.0 -NW-	NO PCT	23 0.29	15 0.19	8 0.10	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.2284		
337.5 -NNW-	NO PCT	13 0.16	9 0.11	3 0.04	1 0.01	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0 0.00	0.0689		
CALM	NO	81													
TOTAL	PCT	1.03	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----			
	NO	688	573	107	6	1	1	0	0	0	0	0			
	PCT	8.79	7.32	1.37	0.08	0.01	0.01	0.00	0.00	0.00	0.00	0.00			
AVERAGE WIND SPEED			2.18			TOTAL VALID OBSERVATIONS			7826		TOTAL OBSERVATIONS			8760	

Table 2-11. Diffusion Factors for Accident and Routine Releases

Type of Release	Distance to Receptor (meters)	Diffusion Factor (X/Q, sec m ⁻³)	Percentile Value
0-2 hours	762	9.0×10^{-4}	95
0-2 hours	762	9.0×10^{-5}	50
0-8 hours	8842	8.0×10^{-5}	--
8-24 hours	8842	5.2×10^{-6}	--
1-4 days	8842	1.7×10^{-6}	--
4-30 days	8842	3.7×10^{-7}	--
1 year	762 at 035 degrees	1.3×10^{-5}	100
⁴¹ 1 year	1935 at 250 degrees	5.6×10^{-7}	100

Type of Release	Diffusion Factor (X/Q, sec m ⁻³)
0 - 8 hours	1.0×10^{-3}
8 - 24 hours	7.0×10^{-4}
1 - 4 days	4.5×10^{-4}
4 - 30 days	2.4×10^{-4}

Note:

1. Mean annual average X/Q for total population to 50 miles (based on 1980 population estimates) - 3.9×10^{-8} sec m⁻³
2. Worst X/Q values at the clean air intakes for the control room under accident conditions
3. High wind X/Q (10 m/sec) at exclusion area boundary (762 m) - 8.1×10^{-5} sec m⁻³
 - a. Exclusion Area Radius - 762 meters (2500 feet)
 - b. Low Population Zone Radius - 8842 meters (29,000 feet)
4. Adjusted for plume depletion of ¹³¹I assuming deposition rate per average concentration is equal to 1 cm per second.
5. Murphy, K. G. and K. M. Campe, "Nuclear Power Plant Control Room Ventilation System Design for Meeting General Criterion 19", 13th AEC Air Cleaning Conference.
6. Murphy, K. G., personal communication, November, 1975

Table 2-12. Annual Relative Frequency Distribution Station – 13881 Charlotte, NC. 10/70-10/71

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION				STATION = 13881 CHARLOTTE, NC 10/70 - 1071	
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.000389	0.000000	0.000000	0.000000	0.000000	0.000000	0.000369
NNE	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
NE	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
ENE	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
E	0.000026	0.000342	0.000000	0.000000	0.000000	0.000000	0.000369
ESE	0.000369	0.000000	0.000000	0.000000	0.000000	0.000000	0.000369
SE	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
SSE	0.000369	0.000000	0.000000	0.000000	0.000000	0.000000	0.000369
S	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
SSW	0.000105	0.001370	0.000000	0.000000	0.000000	0.000000	0.001475
SW	0.000026	0.000342	0.000000	0.000000	0.000000	0.000000	0.000369
WSW	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
W	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
WNW	0.000026	0.000342	0.000000	0.000000	0.000000	0.000000	0.000369
NW	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
NNW	0.000079	0.001027	0.000000	0.000000	0.000000	0.000000	0.001106
TOTAL	0.001370	0.003425	0.000000	0.000000	0.000000	0.000000	
RELATIVE FREQUENCY OF OCCURRENCE OF A STABILITY = 0.004795							
RELATIVE FREQUENCY OF CALM DISTRIBUTED ABOVE WITH A STABILITY = 0.000342							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION			STATION = 13881 CHARLOTTE, N.C. 10/70 – 10/71		
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.000510	0.002740	0.000000	0.000000	0.000000	0.000000	0.003250
NNE	0.001575	0.002397	0.000342	0.000000	0.000000	0.000000	0.004315
NE	0.000056	0.001027	0.001027	0.000000	0.000000	0.000000	0.002111
ENE	0.000417	0.001027	0.000685	0.000000	0.000000	0.000000	0.002129
E	0.001214	0.002397	0.001712	0.000000	0.000000	0.000000	0.005323
ESE	0.000834	0.002055	0.000342	0.000000	0.000000	0.000000	0.003231
SE	0.001556	0.002055	0.000000	0.000000	0.000000	0.000000	0.003611
SSE	0.001195	0.002055	0.000000	0.000000	0.000000	0.000000	0.003250
S	0.002733	0.003767	0.001027	0.000000	0.000000	0.000000	0.007527
SSW	0.000797	0.001370	0.002397	0.000000	0.000000	0.000000	0.004566
SW	0.000603	0.004452	0.001370	0.000000	0.000000	0.000000	0.006625
WSW	0.001538	0.001712	0.001027	0.000000	0.000000	0.000000	0.004277
W	0.001594	0.002740	0.001027	0.000000	0.000000	0.000000	0.005361
WNW	0.000759	0.000685	0.000342	0.000000	0.000000	0.000000	0.001767
NW	0.000834	0.002055	0.001712	0.000000	0.000000	0.000000	0.004601
NNW	0.002621	0.001712	0.001027	0.000000	0.000000	0.000000	0.005361
TOTAL	0.018836	0.034247	0.014041	0.000000	0.000000	0.000000	
RELATIVE FREQUENCY OF OCCURRENCE OF B STABILITY = 0.067123							
RELATIVE FREQUENCY OF CALM DISTRIBUTED ABOVE WITH B STABILITY = 0.002740							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION			STATION = 13881 CHARLOTTE, N.C. 10/70 – 10/71		
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.001577	0.002740	0.004110	0.001027	0.000000	0.000000	0.009454
NNE	0.000446	0.001712	0.004452	0.000685	0.000000	0.000000	0.007295
NE	0.000446	0.001712	0.003425	0.000000	0.000000	0.000000	0.005583
ENE	0.001183	0.002055	0.003082	0.000000	0.000000	0.000000	0.006320
E	0.000909	0.003767	0.001712	0.000342	0.000000	0.000000	0.006731
ESE	0.000446	0.001712	0.002740	0.000342	0.000000	0.000000	0.005240
SE	0.000788	0.001370	0.003082	0.000000	0.000000	0.000000	0.005240
SSE	0.000463	0.002055	0.002397	0.000000	0.000000	0.000000	0.004915
S	0.000138	0.002740	0.001712	0.000000	0.000000	0.000000	0.004590
SSW	0.000532	0.003425	0.004452	0.000342	0.000000	0.000000	0.008751
SW	0.000857	0.002740	0.006507	0.002055	0.000342	0.000000	0.012501
WSW	0.000480	0.002397	0.004110	0.000685	0.000000	0.000000	0.007672
W	0.000978	0.005137	0.006164	0.001370	0.000000	0.000000	0.013649
WNW	0.000052	0.001027	0.002397	0.000342	0.000000	0.000000	0.003819
NW	0.000463	0.002055	0.005822	0.000342	0.000000	0.000000	0.008682
NNW	0.001200	0.002397	0.005479	0.001027	0.000000	0.000000	0.010104
TOTAL	0.010959	0.039041	0.061644	0.008542	0.000342	0.000000	
RELATIVE FREQUENCY OF OCCURRENCE OF C STABILITY = 0.120548							
RELATIVE FREQUENCY OF CALM DISTRIBUTED ABOVE WITH C STABILITY = 0.002397							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION			STATION = 13881 CHARLOTTE, N.C. 10/70 – 10/71		
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.002542	0.008219	0.013356	0.009932	0.000342	0.000000	0.034391
NNE	0.002329	0.011301	0.019521	0.009932	0.001027	0.000000	0.044110
NE	0.001743	0.006507	0.015411	0.006507	0.000000	0.000000	0.030168
ENE	0.002215	0.008904	0.014726	0.005822	0.000000	0.000000	0.031667
E	0.005784	0.016096	0.019521	0.002397	0.000000	0.000000	0.043798
ESE	0.001449	0.007877	0.008219	0.000685	0.000000	0.000000	0.018230
SE	0.001336	0.005479	0.004795	0.000685	0.000000	0.000000	0.012295
SSE	0.000977	0.005479	0.005822	0.000685	0.000000	0.000000	0.012963
S	0.001401	0.006849	0.013014	0.009267	0.001027	0.000000	0.031538
SSW	0.001352	0.005822	0.012329	0.012329	0.002740	0.000000	0.036571
SW	0.000961	0.005137	0.017808	0.022260	0.002397	0.000685	0.049248
WSW	0.002347	0.004110	0.009932	0.014041	0.003425	0.000342	0.038196
W	0.002460	0.006507	0.010274	0.008562	0.000685	0.000000	0.028488
WNW	0.001206	0.002740	0.004452	0.004452	0.001370	0.000342	0.014562
NW	0.000586	0.004795	0.005479	0.006849	0.001027	0.000000	0.018737
NNW	0.003504	0.005822	0.008904	0.005479	0.000342	0.000000	0.024052
TOTAL	0.032192	0.111643	0.183561	0.119863	0.014384	0.001370	
RELATIVE FREQUENCY OF OCCURRENCE OF D STABILITY = 0.463019							
RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH D STABILITY = 0.006507							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION			STATION = 13881 CHARLOTTE, N.C. 10/70 – 10/71		
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.000000	0.002397	0.007192	0.000000	0.000000	0.000000	0.009589
NNE	0.000000	0.003767	0.003767	0.000000	0.000000	0.000000	0.007534
NE	0.000000	0.003767	0.003767	0.000000	0.000000	0.000000	0.007534
ENE	0.000000	0.004110	0.001370	0.000000	0.000000	0.000000	0.005479
E	0.000000	0.009932	0.000685	0.000000	0.000000	0.000000	0.010616
ESE	0.000000	0.003082	0.000342	0.000000	0.000000	0.000000	0.003425
SE	0.000000	0.002397	0.000342	0.000000	0.000000	0.000000	0.002740
SSE	0.000000	0.005479	0.000685	0.000000	0.000000	0.000000	0.006164
S	0.000000	0.007877	0.005479	0.000000	0.000000	0.000000	0.013356
SSW	0.000000	0.002397	0.004452	0.000000	0.000000	0.000000	0.006849
SW	0.000000	0.007534	0.004452	0.000000	0.000000	0.000000	0.011986
WSW	0.000000	0.002740	0.003082	0.000000	0.000000	0.000000	0.005822
W	0.000000	0.004110	0.002397	0.000000	0.000000	0.000000	0.006507
WNW	0.000000	0.000342	0.004110	0.000000	0.000000	0.000000	0.004452
NW	0.000000	0.003425	0.002740	0.000000	0.000000	0.000000	0.006164
NNW	0.000000	0.002397	0.004795	0.000000	0.000000	0.000000	0.007192
TOTAL	0.000000	0.065753	0.049658	0.000000	0.000000	0.000000	
RELATIVE FREQUENCY OF OCCURRENCE OF E STABILITY = 0.115411							
RELATIVE FREQUENCY OF CALM DISTRIBUTED ABOVE WITH E STABILITY = 0.000000							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION			STATION = 13881 CHARLOTTE, N.C. 10/70 – 10/71		
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.003809	0.011644	0.000000	0.000000	0.000000	0.000000	0.015653
NNE	0.001408	0.006507	0.000000	0.000000	0.000000	0.000000	0.007915
NE	0.000928	0.005479	0.000000	0.000000	0.000000	0.000000	0.006607
ENE	0.002298	0.004110	0.000000	0.000000	0.000000	0.000000	0.006407
E	0.003600	0.005822	0.000000	0.000000	0.000000	0.000000	0.009422
ESE	0.001886	0.003767	0.000000	0.000000	0.000000	0.000000	0.005653
SE	0.002229	0.003425	0.000000	0.000000	0.000000	0.000000	0.005653
SSE	0.000928	0.005479	0.000000	0.000000	0.000000	0.000000	0.006407
S	0.005316	0.011644	0.000000	0.000000	0.000000	0.000000	0.016960
SSW	0.001990	0.004795	0.000000	0.000000	0.000000	0.000000	0.006784
SW	0.002060	0.009247	0.000000	0.000000	0.000000	0.000000	0.011307
WSW	0.001888	0.007534	0.003596	0.000000	0.000000	0.000000	0.009422
W	0.003600	0.005822	0.000000	0.000000	0.000000	0.000000	0.009422
WNW	0.001509	0.003767	0.000000	0.000000	0.000000	0.000000	0.005277
NW	0.002711	0.008219	0.000000	0.000000	0.000000	0.000000	0.010930
NNW	0.002881	0.006164	0.005651	0.000000	0.000000	0.000000	0.009045
TOTAL	0.039041	0.103424	0.000000	0.000000	0.000000	0.000000	
RELATIVE FREQUENCY OF OCCURRENCE OF F STABILITY = 0.142466							
RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH E STABILITY = 0.013014							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION				STATION = 13881 CHARLOTTE, N.C. 10/70 – 10/71	
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.009301	0.000000	0.000000	0.000000	0.000000	0.000000	0.009301
NNE	0.005385	0.000000	0.000000	0.000000	0.000000	0.000000	0.005385
NE	0.001469	0.000000	0.000000	0.000000	0.000000	0.000000	0.001469
ENE	0.004406	0.000000	0.000000	0.000000	0.000000	0.000000	0.004406
E	0.010280	0.000000	0.000000	0.000000	0.000000	0.000000	0.010280
ESE	0.003916	0.000000	0.000000	0.000000	0.000000	0.000000	0.003916
SE	0.005385	0.000000	0.000000	0.000000	0.000000	0.000000	0.005385
SSE	0.002937	0.000000	0.000000	0.000000	0.000000	0.000000	0.002937
S	0.005874	0.000000	0.000000	0.000000	0.000000	0.000000	0.005874
SSW	0.004895	0.000000	0.000000	0.000000	0.000000	0.000000	0.004895
SW	0.005874	0.000000	0.000000	0.000000	0.000000	0.000000	0.005874
WSW	0.005874	0.000000	0.000000	0.000000	0.000000	0.000000	0.005874
W	0.007343	0.000000	0.000000	0.000000	0.000000	0.000000	0.007343
WNW	0.003427	0.000000	0.000000	0.000000	0.000000	0.000000	0.003427
NW	0.006384	0.000000	0.000000	0.000000	0.000000	0.000000	0.006384
NNW	0.003916	0.000000	0.000000	0.000000	0.000000	0.000000	0.003916
TOTAL	0.086644	0.000000	0.000000	0.000000	0.000000	0.000000	
RELATIVE FREQUENCY OF OCCURRENCE OF G STABILITY = 0.086644							
RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH G STABILITY = 0.026027							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION				STATION = 13881 CHARLOTTE, N.C. 10/70 – 10/71	
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.017210	0.027740	0.024658	0.010959	0.000342	0.000000	0.080909
NNE	0.011333	0.025685	0.028082	0.010616	0.001027	0.000000	0.076744
NE	0.005306	0.018493	0.023630	0.006507	0.000000	0.000000	0.053934
ENE	0.010768	0.020205	0.019863	0.005822	0.000000	0.000000	0.056659
E	0.022081	0.038356	0.023630	0.002740	0.000000	0.000000	0.086807
ESE	0.009081	0.018493	0.011644	0.001027	0.000000	0.000000	0.040246
SE	0.010960	0.014726	0.008219	0.000685	0.000000	0.000000	0.036590
SSE	0.007404	0.020548	0.008904	0.000685	0.000000	0.000000	0.037541
S	0.015850	0.032877	0.021233	0.009247	0.001027	0.000000	0.080234
SSW	0.009529	0.019178	0.023620	0.012671	0.002740	0.000000	0.067749
SW	0.010587	0.029452	0.030137	0.024315	0.002740	0.000685	0.097916
WSW	0.011725	0.018493	0.018151	0.014726	0.003425	0.000342	0.066862
W	0.015724	0.024315	0.019863	0.009932	0.000685	0.000000	0.070519
WNW	0.006583	0.008904	0.011301	0.004795	0.001370	0.000342	0.033295
NW	0.010426	0.020548	0.015753	0.007192	0.001027	0.000000	0.054946
NNW	0.014475	0.019521	0.020205	0.006507	0.000342	0.000000	0.061050
TOTAL	0.189041	0.357534	0.308904	0.128425	0.014726	0.001370	
TOTAL RELATIVE FREQUENCY OF OBSERVATIONS = 1.000001							
TOTAL RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE = 0.051027							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION					STATION 13881 CHARLOTTE NC 8 OBS 1969-1973
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.000396	0.000616	0.000000	0.000000	0.000000	0.000000	0.001012
NNE	0.000019	0.000342	0.000000	0.000000	0.000000	0.000000	0.000361
NE	0.000027	0.000479	0.000000	0.000000	0.000000	0.000000	0.000506
ENE	0.000084	0.000205	0.000000	0.000000	0.000000	0.000000	0.000289
E	0.000179	0.000616	0.000000	0.000000	0.000000	0.000000	0.000795
ESE	0.000091	0.000342	0.000000	0.000000	0.000000	0.000000	0.000434
SE	0.000080	0.000137	0.000000	0.000000	0.000000	0.000000	0.000217
SSE	0.000084	0.000205	0.000000	0.000000	0.000000	0.000000	0.000289
S	0.000023	0.000411	0.000000	0.000000	0.000000	0.000000	0.000434
SSW	0.000046	0.000822	0.000000	0.000000	0.000000	0.000000	0.000868
SW	0.000156	0.000205	0.000000	0.000000	0.000000	0.000000	0.000361
WSW	0.000088	0.000274	0.000000	0.000000	0.000000	0.000000	0.000361
W	0.000152	0.000137	0.000000	0.000000	0.000000	0.000000	0.000289
WNW	0.000023	0.000411	0.000000	0.000000	0.000000	0.000000	0.000434
NW	0.000301	0.000205	0.000000	0.000000	0.000000	0.000000	0.000506
NNW	0.000171	0.000479	0.000000	0.000000	0.000000	0.000000	0.000651
TOTAL	0.001918	0.005890	0.000000	0.000000	0.000000	0.000000	
RELATIVE FREQUENCY OF A STABILITY = 0.007808							
RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH A STABILITY = 0.000411							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION					STATION 13881 CHARLOTTE NC 8 OBS 1969-1973
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.001142	0.002808	0.001096	0.000000	0.000000	0.000000	0.005046
NNE	0.001017	0.001712	0.001027	0.000000	0.000000	0.000000	0.003757
NE	0.000549	0.000959	0.001164	0.000000	0.000000	0.000000	0.002673
ENE	0.000634	0.001233	0.000548	0.000000	0.000000	0.000000	0.002415
E	0.000838	0.002466	0.001096	0.000000	0.000000	0.000000	0.004400
ESE	0.000873	0.001712	0.000753	0.000000	0.000000	0.000000	0.003339
SE	0.001017	0.001712	0.001233	0.000000	0.000000	0.000000	0.003962
SSE	0.000765	0.000959	0.000685	0.000000	0.000000	0.000000	0.002409
S	0.001939	0.002945	0.001507	0.000000	0.000000	0.000000	0.006391
SSW	0.000821	0.002123	0.001918	0.000000	0.000000	0.000000	0.004863
SW	0.001498	0.002740	0.001370	0.000000	0.000000	0.000000	0.005607
WSW	0.001249	0.002466	0.001986	0.000000	0.000000	0.000000	0.005721
W	0.001344	0.002534	0.001849	0.000000	0.000000	0.000000	0.005728
WNW	0.000811	0.001918	0.000890	0.000000	0.000000	0.000000	0.003620
NW	0.001105	0.002055	0.001096	0.000000	0.000000	0.000000	0.004236
NNW	0.001363	0.001438	0.001233	0.000000	0.000000	0.000000	0.004034
TOTAL	0.016946	0.031781	0.019452	0.000000	0.000000	0.000000	
RELATIVE FREQUENCY OF OCCURRENCE OF B							
RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH A STABILITY = 0.002260							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION				STATION 13881 CHARLOTTE NC 8 OBS 1969-1973	
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.001295	0.003904	0.003959	0.000685	0.000068	0.000000	0.011911
NNE	0.000304	0.002200	0.005205	0.000753	0.000000	0.000000	0.008523
NE	0.000205	0.001575	0.003904	0.000548	0.000000	0.000000	0.006232
ENE	0.000580	0.002055	0.003767	0.000274	0.000000	0.000000	0.006676
E	0.001095	0.002466	0.004315	0.000068	0.000000	0.000000	0.007944
ESE	0.000561	0.001575	0.002055	0.000068	0.000000	0.000000	0.004260
SE	0.000430	0.001849	0.001849	0.000000	0.000000	0.000000	0.004128
SSE	0.000443	0.002192	0.001781	0.000000	0.000000	0.000000	0.004416
S	0.000405	0.002740	0.003699	0.000479	0.000000	0.000000	0.007383
SSW	0.000317	0.002603	0.005342	0.000822	0.000000	0.000000	0.009084
SW	0.000553	0.003151	0.008425	0.001986	0.000068	0.000068	0.014251
WSW	0.000536	0.002740	0.005411	0.001027	0.000000	0.000000	0.009714
W	0.000785	0.003630	0.005411	0.000959	0.000000	0.000000	0.010785
WNW	0.000123	0.001301	0.002123	0.000411	0.000000	0.000000	0.003959
NW	0.000443	0.002192	0.003356	0.000479	0.000000	0.000000	0.006471
NNW	0.001043	0.002945	0.003767	0.000616	0.000000	0.000000	0.008372
TOTAL	0.009178	0.039178	0.066370	0.009178	0.000137	0.000068	
RELATIVE FREQUENCY OF OCCURRENCE OF C STABILITY = 0.124110							
RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH C STABILITY = 0.001849							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION					STATION 13881 CHARLOTTE NC 8 OBS 1969-1973
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.001956	0.009726	0.015205	0.010753	0.000342	0.000000	0.037983
NNE	0.001463	0.008082	0.020890	0.016370	0.001027	0.000000	0.047833
NE	0.001071	0.005411	0.017260	0.010205	0.000411	0.000000	0.034359
ENE	0.001211	0.007123	0.013630	0.004795	0.000068	0.000000	0.026827
E	0.003087	0.013082	0.014521	0.002877	0.000000	0.000000	0.033567
ESE	0.001115	0.006507	0.007397	0.001507	0.000068	0.000000	0.016594
SE	0.001167	0.006027	0.006096	0.001096	0.000068	0.000000	0.014455
SSE	0.001019	0.005890	0.006781	0.002055	0.000205	0.000000	0.015951
S	0.001118	0.006356	0.014726	0.007534	0.000548	0.000000	0.032282
SSW	0.000972	0.006507	0.016986	0.016027	0.001438	0.000000	0.041931
SW	0.001005	0.005548	0.015548	0.018904	0.002808	0.000137	0.043951
WSW	0.000948	0.004110	0.007671	0.010342	0.001712	0.000205	0.024989
W	0.001929	0.005479	0.007466	0.007192	0.000479	0.000205	0.022751
WNW	0.001194	0.003151	0.003630	0.003699	0.000479	0.000068	0.012222
NW	0.001572	0.005479	0.004795	0.006712	0.000411	0.000000	0.018970
NNW	0.001912	0.005068	0.006849	0.006438	0.000274	0.000000	0.020542
TOTAL	0.022740	0.105548	0.179452	0.126507	0.010342	0.000610	
RELATIVE FREQUENCY OF OCCURRENCE OF D STABILITY = 0.445206							
RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH D STABILITY = 0.004932							

ANNUAL		RELATIVE FRERQUENCY DISTRIBUTION				STATION 13881 CHARLOTTE NC 8 OBS 1969-1973	
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.000000	0.004384	0.006233	0.000000	0.000000	0.000000	0.010618
NNE	0.000000	0.003973	0.007808	0.000000	0.000000	0.000000	0.011781
NE	0.000000	0.004795	0.005616	0.000000	0.000000	0.000000	0.010411
ENE	0.000000	0.004726	0.001849	0.000000	0.000000	0.000000	0.006575
E	0.000000	0.008082	0.000959	0.000000	0.000000	0.000000	0.009041
ESE	0.000000	0.003411	0.000753	0.000000	0.000000	0.000000	0.006164
SE	0.000000	0.004932	0.000685	0.000000	0.000000	0.000000	0.005616
SSE	0.000000	0.005274	0.001164	0.000000	0.000000	0.000000	0.006438
S	0.000000	0.008767	0.004863	0.000000	0.000000	0.000000	0.013630
SSW	0.000000	0.004658	0.004726	0.000000	0.000000	0.000000	0.009384
SW	0.000000	0.006575	0.004247	0.000000	0.000000	0.000000	0.010822
WSW	0.000000	0.003493	0.003151	0.000000	0.000000	0.000000	0.006644
W	0.000000	0.003562	0.002329	0.000000	0.000000	0.000000	0.005890
WNW	0.000000	0.001438	0.002123	0.000000	0.000000	0.000000	0.003562
NW	0.000000	0.003904	0.004247	0.000000	0.000000	0.000000	0.008151
NNW	0.000000	0.004247	0.004726	0.000000	0.000000	0.000000	0.008973
TOTAL	0.000000	0.078219	0.055479	0.000000	0.000000	0.000000	
RELATIVE FREQUENCY OF OCCURRENCE OF E STABILITY = 0.133699							
RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH E STABILITY = 0.000000							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION					STATION 13881 CHARLOTTE NC 8 OBS 1969-1973
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.003000	0.012877	0.000000	0.000000	0.000000	0.000000	0.015876
NNE	0.001152	0.006164	0.000000	0.000000	0.000000	0.000000	0.007316
NE	0.000946	0.006370	0.000000	0.000000	0.000000	0.000000	0.007316
ENE	0.001907	0.006507	0.000000	0.000000	0.000000	0.000000	0.008414
E	0.003133	0.007329	0.000000	0.000000	0.000000	0.000000	0.010462
ESE	0.002111	0.005205	0.000000	0.000000	0.000000	0.000000	0.007316
SE	0.001529	0.004178	0.000685	0.000000	0.000000	0.000000	0.005707
SSE	0.001454	0.006301	0.000000	0.000000	0.000000	0.000000	0.007755
S	0.003491	0.011507	0.000000	0.000000	0.000000	0.000000	0.014998
SSW	0.001567	0.005822	0.000000	0.000000	0.000000	0.000000	0.007389
SW	0.002572	0.007671	0.000000	0.000000	0.000000	0.000000	0.010243
WSW	0.001572	0.005890	0.000000	0.000000	0.000000	0.000000	0.007463
W	0.003115	0.007055	0.000000	0.000000	0.000000	0.000000	0.010170
WNW	0.001297	0.005068	0.000000	0.000000	0.000000	0.000000	0.006365
NW	0.002100	0.010411	0.000000	0.000000	0.000000	0.000000	0.012511
NNW	0.002411	0.010685	0.000000	0.000000	0.000000	0.000000	0.013096
TOTAL	0.033356	0.119041	0.000000	0.000000	0.000000	0.000000	
RELATIVE FREQUENCY OF OCCURRENCE OF F STABILITY = 0.152397							
RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH F STABILITY = 0.009726							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION					STATION 13881 CHARLOTTE NC 8 OBS 1969-1973
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.006176	0.000000	0.000000	0.000000	0.000000	0.000000	0.006176
NNE	0.004292	0.000000	0.000000	0.000000	0.000000	0.000000	0.004292
NE	0.002512	0.000000	0.000000	0.000000	0.000000	0.000000	0.002512
ENE	0.003559	0.000000	0.000000	0.000000	0.000000	0.000000	0.003559
E	0.006280	0.000000	0.000000	0.000000	0.000000	0.000000	0.006280
ESE	0.003454	0.000000	0.000000	0.000000	0.000000	0.000000	0.003454
SE	0.003873	0.000000	0.000000	0.000000	0.000000	0.000000	0.003873
SSE	0.003245	0.000000	0.000000	0.000000	0.000000	0.000000	0.003245
S	0.004815	0.000000	0.000000	0.000000	0.000000	0.000000	0.004815
SSW	0.003873	0.000000	0.000000	0.000000	0.000000	0.000000	0.003873
SW	0.004815	0.000000	0.000000	0.000000	0.000000	0.000000	0.004815
WSW	0.004815	0.000000	0.000000	0.000000	0.000000	0.000000	0.004815
W	0.004501	0.000000	0.000000	0.000000	0.000000	0.000000	0.004501
WNW	0.003036	0.000000	0.000000	0.000000	0.000000	0.000000	0.003036
NW	0.004396	0.000000	0.000000	0.000000	0.000000	0.000000	0.004396
NNW	0.004920	0.000000	0.000000	0.000000	0.000000	0.000000	0.004920
TOTAL	0.068562	0.000000	0.000000	0.000000	0.000000	0.000000	
RELATIVE FREQUENCY OF OCCURRENCE OF F STABILITY = 0.068562							
RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH FSTABILITY = 0.023699							

ANNUAL		RELATIVE FREQUENCY DISTRIBUTION				STATION = 13881 CHARLOTTE NC 8 OBS 1969-1973	
SPEED (KTS)							
DIRECTION	0 – 3	4 – 6	7 – 10	11 – 16	17 – 21	GREATER THAN 21	TOTAL
N	0.013807	0.034315	0.028493	0.011438	0.000411	0.000000	0.088464
NNE	0.008157	0.022534	0.034932	0.017123	0.001027	0.000000	0.083773
NE	0.005589	0.019589	0.027945	0.010753	0.000411	0.000000	0.064288
ENE	0.008097	0.021849	0.019795	0.005068	0.000068	0.000000	0.054877
E	0.014751	0.034041	0.020890	0.002945	0.000000	0.000000	0.072628
ESE	0.008373	0.020753	0.010959	0.001575	0.000068	0.000000	0.041729
SE	0.008056	0.018836	0.009863	0.001096	0.000068	0.000000	0.037919
SSE	0.007187	0.020822	0.010411	0.002055	0.000205	0.000000	0.040680
S	0.012279	0.034726	0.024795	0.008014	0.000548	0.000000	0.080361
SSW	0.007635	0.022534	0.028973	0.016849	0.001438	0.000000	0.077430
SW	0.010611	0.025890	0.029589	0.020890	0.002877	0.000205	0.090063
WSW	0.008813	0.016973	0.018219	0.011370	0.001712	0.000205	0.059293
W	0.011720	0.022397	0.017055	0.008151	0.000479	0.000205	0.060008
WNW	0.006229	0.013288	0.008767	0.004110	0.000479	0.000068	0.032942
NW	0.009796	0.024247	0.013493	0.007192	0.000411	0.000000	0.055139
NNW	0.011638	0.024863	0.016375	0.007055	0.000274	0.000000	0.060405
TOTAL	0.152739	0.379657	0.320753	0.135685	0.010479	0.000685	
TOTAL RELATIVE FREQUENCY OF OBSERVATIONS = 0.000001							
TOTAL RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE = 0.042877							

Table 2-13. Areal Distribution of Average Relative Concentration – Ground Release**[HISTORICAL INFORMATION NOT REQUIRED TO BE REVISED]****(Period of Record: October 17, 1970 – October 16, 1971)**

McGuire Nuclear Station Areal Distribution of Average Relative Concentration – Ground Release (Period of Record: October 17, 1970 – October 16, 1971)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
762	5	6.054127E-06	762	185	2.408497E-06
762	10	1.064015E-05	762	190	2.990778E-06
762	15	8.507052E-06	762	195	3.328280E-06
762	20	1.214026E-05	762	200	3.308572E-06
762	25	1.259184E-05	762	205	3.398541E-06
762	30	1.072725E-05	762	210	3.723932E-06
762	35	1.279653E-05	762	215	3.279528E-06
762	40	1.024377E-05	762	220	3.950164E-06
762	45	1.152074E-05	762	225	4.258157E-06
762	50	7.865799E-06	762	230	3.528422E-06
762	55	6.902074E-06	762	235	2.815203E-06
762	60	6.873010E-06	762	240	3.569428E-06
762	65	5.107483E-06	762	245	2.849091E-06
762	70	6.952459E-06	762	250	3.618617E-06
762	75	4.695745E-06	762	255	2.523734E-06
762	80	2.679651E-06	762	260	2.849515E-06
762	85	2.848893E-06	762	265	2.375431E-06
762	90	4.265527E-06	762	270	2.229522E-06
762	95	3.506784E-06	762	275	2.296044E-06
762	100	2.481466E-06	762	280	2.263591E-06
762	105	2.738177E-06	762	285	2.430398E-06
762	110	2.031124E-06	762	290	3.313718E-06
762	115	2.315050E-06	762	295	2.791329E-06
762	120	2.203629E-06	762	300	2.648621E-06
762	125	1.585100E-06	762	305	3.565561E-06
762	130	2.571232E-06	762	310	4.018914E-06
762	135	2.572800E-06	762	315	3.637128E-06
762	140	2.005288E-06	762	320	4.228695E-06
762	145	1.813219E-06	762	325	4.536803E-06
762	150	1.800071E-06	762	330	3.596218E-06
762	155	1.922957E-06	762	335	5.502793E-06
762	160	1.756653E-06	762	340	4.429537E-06
762	165	2.678836E-06	762	345	7.490027E-06
762	170	1.606616E-06	762	350	6.166269E-06
762	175	2.153883E-06	762	355	6.121842E-06
762	180	3.460389E-06	762	360	1.249224E-05
THE TOTAL AT THIS RADIUS IS		3.231484E-04			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: October 17, 1970 – October 16, 1971)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
2413	5	1.757231E-06	2413	185	5.243737E-07
2413	10	3.242772E-06	2413	190	6.424689E-07
2413	15	2.392039E-06	2413	195	7.488720E-07
2413	20	3.754966E-06	2413	200	7.075043E-07
2413	25	3.769269E-06	2413	205	6.994870E-07
2413	30	3.061135E-06	2413	210	7.516114E-07
2413	35	3.764335E-06	2413	215	5.978424E-07
2413	40	2.764172E-06	2413	220	8.111102E-07
2413	45	3.327408E-06	2413	225	8.817785E-07
2413	50	2.096469E-06	2413	230	6.744831E-07
2413	55	1.812895E-06	2413	235	4.627528E-07
2413	60	1.838104E-06	2413	240	7.107363E-07
2413	65	1.330075E-06	2413	245	4.592479E-07
2413	70	2.048623E-06	2413	250	7.535546E-07
2413	75	1.229068E-06	2413	255	4.424006E-07
2413	80	5.889158E-07	2413	260	5.952880E-07
2413	85	6.636462E-07	2413	265	4.690551E-07
2413	90	1.156319E-06	2413	270	4.160460E-07
2413	95	9.191733E-07	2413	275	5.029071E-07
2413	100	5.242986E-07	2413	280	4.820684E-07
2413	105	6.268741E-07	2413	285	5.258649E-07
2413	110	4.092811E-07	2413	290	8.403221E-07
2413	115	5.829268E-07	2413	295	6.788648E-07
2413	120	5.387509E-07	2413	300	5.881097E-07
2413	125	3.543238E-07	2413	305	8.359551E-07
2413	130	6.607955E-07	2413	310	1.036175E-06
2413	135	6.564596E-07	2413	315	9.480566E-07
2413	140	4.490739E-07	2413	320	1.065499E-06
2413	145	3.850656E-07	2413	325	1.220900E-06
2413	150	3.635523E-07	2413	330	9.673277E-07
2413	155	4.364450E-07	2413	335	1.695541E-06
2413	160	3.713435E-07	2413	340	1.174756E-06
2413	165	7.025776E-07	2413	345	2.263966E-06
2413	170	2.933265E-07	2413	350	1.734264E-06
2413	175	4.551891E-07	2413	355	1.777834E-06
2413	180	8.349538E-07	2413	360	4.056953E-06
THE TOTAL AT THIS RADIUS IS		8.390538E-05			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: October 17, 1970 – October 16, 1971)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
4022	5	9.275696E-07	4022	185	2.573293E-07
4022	10	1.728452E-06	4022	190	3.151777E-07
4022	15	1.252950E-06	4022	195	3.721925E-07
4022	20	2.008201E-06	4022	200	3.462591E-07
4022	25	2.004995E-06	4022	205	3.385458E-07
4022	30	1.608963E-06	4022	210	3.625087E-07
4022	35	1.992680E-06	4022	215	2.783930E-07
4022	40	1.434825E-06	4022	220	3.935718E-07
4022	45	1.755478E-06	4022	225	4.295700E-07
4022	50	1.086374E-06	4022	230	3.204134E-07
4022	55	9.353600E-07	4022	235	2.078906E-07
4022	60	9.540236E-07	4022	240	3.420653E-07
4022	65	6.845701E-07	4022	245	2.042233E-07
4022	70	1.086288E-06	4022	250	3.679456E-07
4022	75	6.340856E-07	4022	255	2.037503E-07
4022	80	2.897787E-07	4022	260	2.907830E-07
4022	85	3.323625E-07	4022	265	2.253782E-07
4022	90	6.020846E-07	4022	270	1.958201E-07
4022	95	4.745833E-07	4022	275	2.487338E-07
4022	100	2.552066E-07	4022	280	2.362989E-07
4022	105	3.118023E-07	4022	285	2.584268E-07
4022	110	1.961839E-07	4022	290	4.313425E-07
4022	115	2.985639E-07	4022	295	3.443539E-07
4022	120	2.736435E-07	4022	300	2.909849E-07
4022	125	1.756624E-07	4022	305	4.182329E-07
4022	130	3.400135E-07	4022	310	5.329350E-07
4022	135	3.372344E-07	4022	315	4.877724E-07
4022	140	2.227288E-07	4022	320	5.440884E-07
4022	145	1.877393E-07	4022	325	6.335953E-07
4022	150	1.745822E-07	4022	330	5.011286E-07
4022	155	2.176868E-07	4022	335	9.064908E-07
4022	160	1.815866E-07	4022	340	6.058659E-07
4022	165	3.639283E-07	4022	345	1.204699E-06
4022	170	1.366556E-07	4022	350	9.103267E-07
4022	175	2.216636E-07	4022	355	9.363531E-07
4022	180	4.233428E-07	4022	360	2.194543E-06
THE TOTAL AT THIS RADIUS IS		4.324937E-05			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: October 17, 1970 – October 16, 1971)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
5631	5	6.045014E-07	5631	185	1.610928E-07
5631	10	1.131096E-06	5631	190	1.979634E-07
5631	15	8.133986E-07	5631	195	2.351165E-07
5631	20	1.315476E-06	5631	200	2.170106E-07
5631	25	1.310893E-06	5631	205	2.108101E-07
5631	30	1.045681E-06	5631	210	2.254938E-07
5631	35	1.299601E-06	5631	215	1.695302E-07
5631	40	9.272674E-07	5631	220	2.454269E-07
5631	45	1.142786E-06	5631	225	2.687065E-07
5631	50	7.010423E-07	5631	230	1.974651E-07
5631	55	6.022000E-07	5631	235	1.239264E-07
5631	60	6.165887E-07	5631	240	2.125532E-07
5631	65	4.400688E-07	5631	245	1.210493E-07
5631	70	7.090328E-07	5631	250	2.303673E-07
5631	75	4.085717E-07	5631	255	1.232463E-07
5631	80	1.820439E-07	5631	260	1.820178E-07
5631	85	2.107644E-07	5631	265	1.396859E-07
5631	90	3.896146E-07	5631	270	1.201588E-07
5631	95	3.055584E-07	5631	275	1.565925E-07
5631	100	1.595488E-07	5631	280	1.482539E-07
5631	105	1.971264E-07	5631	285	1.623710E-07
5631	110	1.216940E-07	5631	290	2.772595E-07
5631	115	1.914681E-07	5631	295	2.197622E-07
5631	120	1.750128E-07	5631	300	1.835398E-07
5631	125	1.107514E-07	5631	305	2.654986E-07
5631	130	2.187779E-07	5631	310	3.430337E-07
5631	135	2.167185E-07	5631	315	3.134910E-07
5631	140	1.406352E-07	5631	320	3.490026E-07
5631	145	1.174058E-07	5631	325	4.094574E-07
5631	150	1.083878E-07	5631	330	3.233930E-07
5631	155	1.377167E-07	5631	335	5.938721E-07
5631	160	1.137578E-07	5631	340	3.905565E-07
5631	165	2.347649E-07	5631	345	7.875885E-07
5631	170	8.325105E-08	5631	350	5.917375E-07
5631	175	1.382815E-07	5631	355	6.084516E-07
5631	180	2.706960E-07	5631	360	1.446623E-06
THE TOTAL AT THIS RADIUS IS		2.784391E-05			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: October 17, 1970 – October 16, 1971)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
7241	5	4.395940E-07	7241	185	1.139708E-07
7241	10	8.244153E-07	7241	190	1.405804E-07
7241	15	5.900250E-07	7241	195	1.675122E-07
7241	20	9.592086E-07	7241	200	1.538245E-07
7241	25	9.550204E-07	7241	205	1.487550E-07
7241	30	7.587967E-07	7241	210	1.590482E-07
7241	35	9.453300E-07	7241	215	1.177717E-07
7241	40	6.706121E-07	7241	220	1.733356E-07
7241	45	8.301446E-07	7241	225	1.902526E-07
7241	50	5.063901E-07	7241	230	1.383455E-07
7241	55	4.343584E-07	7241	235	8.479543E-08
7241	60	4.460086E-07	7241	240	1.498307E-07
7241	65	3.170763E-07	7241	245	8.251465E-08
7241	70	5.158878E-07	7241	250	1.631772E-07
7241	75	2.949778E-07	7241	255	8.519964E-08
7241	80	1.292294E-07	7241	260	1.288910E-07
7241	85	1.505377E-07	7241	265	9.820792E-08
7241	90	2.819963E-07	7241	270	8.396972E-08
7241	95	2.203571E-07	7241	275	1.112601E-07
7241	100	1.129358E-07	7241	280	1.051667E-07
7241	105	1.405543E-07	7241	285	1.153074E-07
7241	110	8.572317E-08	7241	290	1.998521E-07
7241	115	1.377350E-07	7241	295	1.575993E-07
7241	120	1.257704E-07	7241	300	1.307029E-07
7241	125	7.879464E-08	7241	305	1.899306E-07
7241	130	1.577866E-07	7241	310	2.475546E-07
7241	135	1.561463E-07	7241	315	2.258453E-07
7241	140	1.002026E-07	7241	320	2.513162E-07
7241	145	8.310582E-08	7241	325	2.961748E-07
7241	150	7.638164E-08	7241	330	2.336611E-07
7241	155	9.819138E-08	7241	335	4.331127E-07
7241	160	8.060971E-08	7241	340	2.821599E-07
7241	165	1.695225E-07	7241	345	5.736846E-07
7241	170	5.784570E-08	7241	350	4.296330E-07
7241	175	9.762346E-08	7241	355	4.413015E-07
7241	180	1.945477E-07	7241	360	1.059308E-06
THE TOTAL AT THIS RADIUS IS		2.008687E-05			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: October 17, 1970 – October 16, 1971)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
12067	5	2.331545E-07	12067	185	5.746828E-08
12067	10	4.386981E-07	12067	190	7.153415E-08
12067	15	3.116203E-07	12067	195	8.567241E-08
12067	20	5.104499E-07	12067	200	7.797382E-08
12067	25	5.077193E-07	12067	205	7.475734E-08
12067	30	4.007244E-07	12067	210	7.989809E-08
12067	35	5.012412E-07	12067	215	5.744345E-08
12067	40	3.522863E-07	12067	220	8.723879E-08
12067	45	4.389956E-07	12067	225	9.625643E-08
12067	50	2.652935E-07	12067	230	6.859125E-08
12067	55	2.269966E-07	12067	235	4.016951E-08
12067	60	2.343942E-07	12067	240	7.521010E-08
12067	65	1.653833E-07	12067	245	3.882137E-08
12067	70	2.736566E-07	12067	250	8.259661E-08
12067	75	1.545325E-07	12067	255	4.115969E-08
12067	80	6.568547E-08	12067	260	6.517320E-08
12067	85	7.732240E-08	12067	265	4.897136E-08
12067	90	1.482882E-07	12067	270	4.144403E-08
12067	95	1.150777E-07	12067	275	5.657128E-08
12067	100	5.712049E-08	12067	280	5.339082E-08
12067	105	7.202175E-08	12067	285	5.866984E-08
12067	110	4.302485E-08	12067	290	1.043902E-07
12067	115	7.162964E-08	12067	295	8.152551E-08
12067	120	6.537988E-08	12067	300	6.687691E-08
12067	125	4.020573E-08	12067	305	9.802574E-08
12067	130	8.247719E-08	12067	310	1.296706E-07
12067	135	8.145770E-08	12067	315	1.177936E-07
12067	140	5.129372E-08	12067	320	1.311415E-07
12067	145	4.203046E-08	12067	325	1.556774E-07
12067	150	3.834480E-08	12067	330	1.225506E-07
12067	155	5.026924E-08	12067	335	2.306812E-07
12067	160	4.083906E-08	12067	340	1.481319E-07
12067	165	8.872877E-08	12067	345	3.049693E-07
12067	170	2.819925E-08	12067	350	2.272826E-07
12067	175	4.903275E-08	12067	355	2.327006E-07
12067	180	1.011702E-07	12067	360	5.680855E-07
THE TOTAL AT THIS RADIUS IS		1.050323E-05			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: October 17, 1970 – October 16, 1971)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
24135	5	1.028890E-07	24135	185	2.391689E-08
24135	10	1.941598E-07	24135	190	3.014234E-08
24135	15	1.369289E-07	24135	195	3.629270E-08
24135	20	2.257918E-07	24135	200	3.270670E-08
24135	25	2.244369E-07	24135	205	3.102576E-08
24135	30	1.759408E-07	24135	210	3.313660E-08
24135	35	2.209989E-07	24135	215	2.295776E-08
24135	40	1.538500E-07	24135	220	3.626182E-08
24135	45	1.928819E-07	24135	225	4.028300E-08
24135	50	1.154048E-07	24135	230	2.800231E-08
24135	55	9.851033E-08	24135	235	1.547064E-08
24135	60	1.024006E-07	24135	240	3.120220E-08
24135	65	7.162595E-08	24135	245	1.482415E-08
24135	70	1.206588E-07	24135	250	3.455418E-08
24135	75	6.730426E-08	24135	255	1.624100E-08
24135	80	2.765079E-08	24135	260	2.722533E-08
24135	85	3.290592E-08	24135	265	2.009227E-08
24135	90	6.477984E-08	24135	270	1.681154E-08
24135	95	4.987458E-08	24135	275	2.376938E-08
24135	100	2.389146E-08	24135	280	2.242837E-08
24135	105	3.059294E-08	24135	285	2.473507E-08
24135	110	1.787303E-08	24135	290	4.530061E-08
24135	115	3.091288E-08	24135	295	3.498470E-08
24135	120	2.823851E-08	24135	300	2.839813E-08
24135	125	1.700992E-08	24135	305	4.206643E-08
24135	130	3.580790E-08	24135	310	5.651785E-08
24135	135	3.528293E-08	24135	315	5.104432E-08
24135	140	2.177517E-08	24135	320	5.690173E-08
24135	145	1.759284E-08	24135	325	6.806005E-08
24135	150	1.591226E-08	24135	330	5.345529E-08
24135	155	2.130312E-08	24135	335	1.021803E-07
24135	160	1.711280E-08	24135	340	6.476341E-08
24135	165	3.854180E-08	24135	345	1.348594E-07
24135	170	1.124063E-08	24135	350	1.000329E-07
24135	175	2.029547E-08	24135	355	1.019434E-07
24135	180	4.371479E-08	24135	360	2.533576E-07
THE TOTAL AT THIS RADIUS IS		4.562010E-06			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: October 17, 1970 – October 16, 1971)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
40225	5	5.851336E-08	40225	185	1.313177E-08
40225	10	1.106004E-07	40225	190	1.666698E-08
40225	15	7.770313E-08	40225	195	2.013536E-08
40225	20	1.285605E-07	40225	200	1.803940E-08
40225	25	1.277285E-07	40225	205	1.699446E-08
40225	30	9.977214E-08	40225	210	1.813049E-08
40225	35	1.256100E-07	40225	215	1.226505E-08
40225	40	8.697054E-08	40225	220	1.987973E-08
40225	45	1.093723E-07	40225	225	2.217672E-08
40225	50	6.506559E-08	40225	230	1.517450E-08
40225	55	5.548307E-08	40225	235	8.061523E-09
40225	60	5.789252E-08	40225	240	1.708976E-08
40225	65	4.029561E-08	40225	245	7.674998E-09
40225	70	6.856101E-08	40225	250	1.901191E-08
40225	75	3.799070E-08	40225	255	8.594984E-09
40225	80	1.529343E-08	40225	260	1.496800E-08
40225	85	1.830595E-08	40225	265	1.091071E-08
40225	90	3.660930E-08	40225	270	9.063999E-09
40225	95	2.805563E-08	40225	275	1.311703E-08
40225	100	1.314627E-08	40225	280	1.238083E-08
40225	105	1.700943E-08	40225	285	1.369386E-08
40225	110	9.806271E-09	40225	290	2.550498E-08
40225	115	1.734660E-08	40225	295	1.957259E-08
40225	120	1.586109E-08	40225	300	1.579139E-08
40225	125	9.442150E-09	40225	305	2.355650E-08
40225	130	2.016449E-08	40225	310	3.192498E-08
40225	135	1.984296E-08	40225	315	2.873730E-08
40225	140	1.210563E-08	40225	320	3.204856E-08
40225	145	9.694823E-09	40225	325	3.850275E-08
40225	150	8.715123E-09	40225	330	3.021459E-08
40225	155	1.181901E-08	40225	335	5.822882E-08
40225	160	9.430508E-09	40225	340	3.666542E-08
40225	165	2.170592E-08	40225	345	7.680023E-08
40225	170	5.984454E-09	40225	350	5.679958E-08
40225	175	1.109473E-08	40225	355	5.774582E-08
40225	180	2.454836E-08	40225	360	1.448768E-07
THE TOTAL AT THIS RADIUS IS		2.570204E-06			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: October 17, 1970 – October 16, 1971)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
56315	5	4.112616E-08	56315	185	9.054446E-09
56315	10	7.781449E-08	56315	190	1.1531142E-08
56315	15	5.455759E-08	56315	195	1.395796E-08
56315	20	9.043004E-08	56315	200	1.246562E-08
56315	25	8.980743E-08	56315	205	1.169549E-08
56315	30	7.003149E-08	56315	210	1.246412E-08
56315	35	8.826765E-08	56315	215	8.317286E-09
56315	40	6.093779E-08	56315	220	1.368822E-08
56315	45	7.674987E-08	56315	225	1.530354E-08
56315	50	4.551375E-08	56315	230	1.037783E-08
56315	55	3.879520E-08	56315	235	5.384923E-09
56315	60	4.055687E-08	56315	240	1.176075E-08
56315	65	2.816118E-08	56315	245	5.103821E-09
56315	70	4.816616E-08	56315	250	1.311326E-08
56315	75	2.659631E-08	56315	255	5.791470E-09
56315	80	1.058640E-08	56315	260	1.032174E-08
56315	85	1.270897E-08	56315	265	7.465893E-09
56315	90	2.564004E-08	56315	270	6.177281E-09
56315	95	1.960229E-08	56315	275	9.065637E-09
56315	100	9.067318E-09	56315	280	8.558374E-09
56315	105	1.180835E-08	56315	285	9.484342E-09
56315	110	6.756498E-09	56315	290	1.782666E-08
56315	115	1.210238E-08	56315	295	1.363642E-08
56315	120	1.107375E-08	56315	300	1.096172E-08
56315	125	6.551002E-09	56315	305	1.642351E-08
56315	130	1.409580E-08	56315	310	2.235869E-08
56315	135	1.386192E-08	56315	315	2.009478E-08
56315	140	8.403923E-09	56315	320	2.240790E-08
56315	145	6.696240E-09	56315	325	2.698572E-08
56315	150	5.995560E-09	56315	330	2.117509E-08
56315	155	8.192316E-09	56315	335	4.097203E-08
56315	160	6.511790E-09	56315	340	2.571687E-08
56315	165	1.517492E-08	56315	345	5.403106E-08
56315	170	4.046552E-09	56315	350	3.988633E-08
56315	175	7.627161E-09	56315	355	4.051370E-08
56315	180	1.713286E-08	56315	360	1.021146E-07
THE TOTAL AT THIS RADIUS IS		1.797310E-06			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: October 17, 1970 – October 16, 1971)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
72405	5	3.192702E-08	72405	185	6.943090E-09
72405	10	6.045508E-08	72405	190	8.859818E-09
72405	15	4.232846E-08	72405	195	1.073772E-08
72405	20	7.024556E-08	72405	200	9.570869E-09
72405	25	6.973755E-08	72405	205	8.954189E-09
72405	30	5.432921E-08	72405	210	9.533679E-09
72405	35	6.852179E-08	72405	215	6.304237E-09
72405	40	4.721236E-08	72405	220	1.048389E-08
72405	45	5.952838E-08	72405	225	1.173666E-08
72405	50	3.522390E-08	72405	230	7.911858E-09
72405	55	3.002038E-08	72405	235	4.039784E-09
72405	60	3.141803E-08	72405	240	9.003696E-09
72405	65	2.178523E-08	72405	245	3.815774E-09
72405	70	3.738008E-08	72405	250	1.005294E-08
72405	75	2.059604E-08	72405	255	4.369170E-09
72405	80	8.137725E-09	72405	260	7.913094E-09
72405	85	9.786863E-09	72405	265	5.691867E-09
72405	90	1.985896E-08	72405	270	4.697519E-09
72405	95	1.516013E-08	72405	275	6.960665E-09
72405	100	6.950877E-09	72405	280	6.571788E-09
72405	105	9.094265E-09	72405	285	7.293238E-09
72405	110	5.177327E-09	72405	290	1.378868E-08
72405	115	9.350078E-09	72405	295	1.052766E-08
72405	120	8.560281E-09	72405	300	8.440132E-09
72405	125	5.043812E-09	72405	305	1.268556E-08
72405	130	1.090418E-08	72405	310	1.731808E-08
72405	135	1.071910E-08	72405	315	1.555156E-08
72405	140	6.472266E-09	72405	320	1.733713E-08
72405	145	5.139743E-09	72405	325	2.091159E-08
72405	150	4.588181E-09	72405	330	1.641205E-08
72405	155	6.301843E-09	72405	335	3.183086E-08
72405	160	4.996213E-09	72405	340	1.994112E-08
72405	165	1.174059E-08	72405	345	4.197693E-08
72405	170	3.059980E-09	72405	350	3.094565E-08
72405	175	5.835890E-09	72405	355	3.142269E-08
72405	180	1.323932E-08	72405	360	7.941333E-08
THE TOTAL AT THIS RADIUS IS		1.390763E-06			
IBM4211 'ONCODE' = 0520 'SUBSCRIPTRANGE' CONDITION RAISED IN STATEMENT 473 AT OFFSET +000408 IN PROCEDURE WITH ENTRY PLOT RC					

Table 2-14. Wind Occurrences by Sector and Speed Class

MCGUIRE LOW LEVEL			FOR 1976									DATE OF REPORT 3-21-77
SUMMARY OF PASQUILL A			WIND OCCURRENCES BY SECTOR & SPEED CLASS (NO, OCCURR, PERCENT)									
			WIND SPEED CLASS									
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S
360.0	NO	90	0	25	36	16	2	4	7	0	0	0
-N-	PCT	1.09	0.00	0.30	0.44	0.19	0.02	0.05	0.08	0.00	0.00	0.00
22.5	NO	82	0	15	24	17	8	7	7	3	1	0
-NNE-	PCT	0.99	0.00	0.18	0.29	0.21	0.10	0.08	0.08	0.04	0.01	0.00
45.0	NO	55	0	5	17	8	12	7	6	0	0	0
-NE-	PCT	0.67	0.00	0.06	0.21	0.10	0.14	0.08	0.07	0.00	0.00	0.00
67.5	NO	14	0	6	3	0	1	4	0	0	0	0
-ENE-	PCT	0.17	0.00	0.07	0.04	0.00	0.01	0.05	0.00	0.00	0.00	0.00
90.0	NO	5	0	1	4	0	0	0	0	0	0	0
-E-	PCT	0.06	0.00	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	NO	10	0	2	2	6	0	0	0	0	0	0
-ESE-	PCT	0.12	0.00	0.02	0.02	0.07	0.00	0.00	0.00	0.00	0.00	0.00
135.0	NO	14	0	2	2	6	3	1	0	0	0	0
-SE-	PCT	0.17	0.00	0.02	0.02	0.07	0.04	0.01	0.00	0.00	0.00	0.00
157.5	NO	12	0	4	3	2	2	0	1	0	0	0
-SSE-	PCT	0.15	0.00	0.05	0.04	0.02	0.02	0.00	0.01	0.00	0.00	0.00
180.0	NO	24	0	1	9	9	4	1	0	0	0	0
-S-	PCT	0.29	0.00	0.01	0.11	0.11	0.05	0.01	0.00	0.00	0.00	0.00
202.5	NO	65	0	2	17	12	23	6	4	1	0	0
-SSW-	PCT	0.79	0.00	0.02	0.21	0.14	0.28	0.07	0.05	0.01	0.00	0.00
225.0	NO	57	0	1	8	16	16	9	5	2	0	0
-SW-	PCT	0.69	0.00	0.01	0.10	0.19	0.19	0.11	0.06	0.02	0.00	0.00
247.5	NO	27	0	1	7	5	5	6	3	0	0	0
-WSW-	PCT	0.33	0.00	0.01	0.08	0.06	0.06	0.07	0.04	0.00	0.00	0.00
270.0	NO	18	0	3	5	5	3	1	1	0	0	0
-W-	PCT	0.22	0.00	0.04	0.06	0.06	0.04	0.01	0.01	0.00	0.00	0.00
292.5	NO	12	0	1	0	5	1	1	2	1	1	0
-WNW-	PCT	0.15	0.00	0.01	0.00	0.06	0.01	0.01	0.02	0.01	0.01	0.00
315.0	NO	21	2	3	1	4	5	2	2	2	0	0
-NW-	PCT	0.25	0.02	0.04	0.01	0.05	0.06	0.02	0.02	0.02	0.00	0.00
337.5	NO	28	0	6	9	2	1	5	2	1	2	0
-NNW-	PCT	0.34	0.00	0.07	0.11	0.02	0.01	0.06	0.02	0.01	0.02	0.00
CALM	NO	0										
	PCT	0.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TOTAL	NO	534	2	78	147	113	86	54	40	10	4	0
	PCT	6.48	0.02	0.95	1.78	1.37	1.04	0.65	0.49	0.12	0.05	0.00
AVERAGE WIND SPEED = 922			TOTAL VALID OBSERVATIONS = 8242					TOTAL OBSERVATIONS = 8784				

(13 APR 2008)

MCGUIRE LOW LEVEL			FOR 1976									DATE OF REPORT 3-21-77
SUMMARY OF PASQUILL C			WIND OCCURRENCES BY SECTOR & SPEED CLASS (NO, OCCUR, PERCENT)									
			WIND SPEED CLASS									
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S
360.0	NO	56	0	23	13	6	4	4	4	2	0	0
-N-	PCT	0.66	0.00	0.28	0.16	0.07	0.05	0.05	0.05	0.02	0.00	0.00
22.5	NO	68	0	14	14	13	14	4	2	6	1	0
-NNE-	PCT	0.83	0.00	0.17	0.17	0.16	0.17	0.05	0.02	0.07	0.01	0.00
45.0	NO	65	1	5	12	11	14	9	11	2	0	0
-NE-	PCT	0.79	0.01	0.06	0.14	0.13	0.17	0.11	0.13	0.02	0.00	0.00
67.5	NO	21	0	2	9	5	3	2	0	0	0	0
-ENE-	PCT	0.25	0.00	0.02	0.11	0.06	0.04	0.02	0.00	0.00	0.00	0.00
90.0	NO	6	0	3	3	0	0	0	0	0	0	0
-E-	PCT	0.07	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	NO	13	1	4	6	2	0	0	0	0	0	0
-ESE-	PCT	0.16	0.01	0.05	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00
135.0	NO	17	0	7	6	3	1	0	0	0	0	0
-SE-	PCT	0.21	0.00	0.08	0.07	0.04	0.01	0.00	0.00	0.00	0.00	0.00
157.5	NO	12	0	1	5	1	3	2	0	0	0	0
-SSE-	PCT	0.15	0.00	0.01	0.06	0.01	0.04	0.02	0.00	0.00	0.00	0.00
180.0	NO	22	1	3	7	9	2	0	0	0	0	0
-S-	PCT	0.27	0.01	0.04	0.08	0.11	0.02	0.00	0.00	0.00	0.00	0.00
202.5	NO	56	0	4	15	22	9	5	1	0	0	0
-SSW-	PCT	0.66	0.00	0.05	0.18	0.27	0.11	0.06	0.01	0.00	0.00	0.00
225.0	NO	65	0	5	12	23	8	8	6	3	0	0
-SW-	PCT	0.79	0.00	0.06	0.14	0.28	0.10	0.10	0.07	0.04	0.00	0.00
247.5	NO	26	0	1	8	10	4	1	2	0	0	0
-WSW-	PCT	0.32	0.00	0.01	0.10	0.12	0.05	0.01	0.02	0.00	0.00	0.00
270.0	NO	20	0	5	6	7	2	0	0	0	0	0
-W-	PCT	0.24	0.00	0.06	0.07	0.08	0.02	0.00	0.00	0.00	0.00	0.00
292.5	NO	13	0	3	0	7	1	1	0	1	0	0
-WNW-	PCT	0.16	0.00	0.04	0.00	0.08	0.01	0.01	0.00	0.01	0.00	0.00
315.0	NO	14	0	0	3	0	2	4	2	2	1	0
-NW-	PCT	0.17	0.00	0.00	0.04	0.00	0.02	0.05	0.02	0.02	0.01	0.00
337.5	NO	21	0	8	3	3	5	2	0	0	0	0
-NNW-	PCT	0.25	0.00	0.10	0.04	0.04	0.06	0.02	0.00	0.00	0.00	0.00
CALM	NO	0										
	PCT	0.00	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TOTAL	NO	495	3	88	122	122	72	42	28	16	2	0
	PCT	6.00	0.04	1.07	1.48	1.48	0.87	0.51	0.34	0.19	0.02	0.00
AVERAGE WIND SPEED = 8.99			TOTAL VALID OBSERVATIONS = 8242					TOTAL OBSERVATIONS = 8784				

MCGUIRE LOW LEVEL SUMMARY OF PASQUILL D			FOR 1976 WIND OCCURRENCES BY SECTOR & SPEED CLASS (NO. OCCURR,PERCENT)										DATE OF REPORT 3-21-77
			WIND SPEED CLASS										
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S	
360.0	NO	245	19	95	53	25	22	17	10	3	1	0	
-N-	PCT	2.97	0.23	1.15	0.64	0.30	0.27	0.21	0.12	0.04	0.01	0.00	
22.5	NO	390	7	112	79	62	53	45	17	10	4	1	
-NNE-	PCT	4.73	0.08	1.36	0.96	0.75	0.64	0.54	0.21	0.12	0.05	0.01	
45.0	NO	519	11	93	101	80	90	96	38	9	1	0	
-NE-	PCT	6.30	0.13	1.13	1.23	0.87	1.09	1.16	0.46	0.11	0.01	0.00	
67.5	NO	205	4	44	84	47	21	5	0	0	0	0	
-ENE-	PCT	2.49	0.05	0.53	1.02	0.57	0.25	0.06	0.00	0.00	0.00	0.00	
90.0	NO	67	0	46	16	4	0	1	0	0	0	0	
-E-	PCT	0.81	0.00	0.56	0.19	0.05	0.00	0.01	0.00	0.00	0.00	0.00	
112.5	NO	61	6	38	15	2	0	0	0	0	0	0	
-ESE-	PCT	0.74	0.07	0.46	0.18	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
135.0	NO	118	12	63	35	6	2	0	0	0	0	0	
-SE-	PCT	1.43	0.14	0.76	0.42	0.07	0.02	0.00	0.00	0.00	0.00	0.00	
157.5	NO	95	12	36	21	18	6	1	1	0	0	0	
-SSE-	PCT	1.15	0.14	0.44	0.25	0.22	0.07	0.01	0.01	0.00	0.00	0.00	
180.0	NO	169	18	59	53	23	13	2	1	0	0	0	
-S-	PCT	2.05	0.22	0.72	0.64	0.28	0.18	0.02	0.01	0.00	0.00	0.00	
202.5	NO	425	25	88	122	90	66	22	11	0	1	0	
-SSW-	PCT	5.16	0.30	1.07	1.48	1.09	0.80	0.27	0.13	0.00	0.01	0.00	
225.0	NO	335	20	82	81	62	44	29	10	3	2	2	
SW	PCT	4.06	0.24	0.99	0.96	0.75	0.53	0.35	0.12	0.04	0.02	0.02	
247.5	NO	156	19	33	36	29	14	11	7	7	0	0	
-WSW-	PCT	1.89	0.23	0.40	0.44	0.35	0.17	0.13	0.08	0.08	0.00	0.00	
270.0	NO	179	11	40	40	31	25	8	9	8	5	2	
-W-	PCT	2.17	0.13	0.49	0.49	0.38	0.30	0.10	0.11	0.10	0.06	0.02	
292.5	NO	180	5	22	39	21	25	23	26	11	5	3	
-WNW-	PCT	2.18	0.06	0.27	0.47	0.25	0.30	0.28	0.31	0.13	0.06	0.04	
315.0	NO	138	11	20	21	24	27	17	7	5	2	4	
-NW-	PCT	1.67	0.13	0.24	0.25	0.29	0.33	0.21	0.08	0.06	0.02	0.05	
337.5	NO	130	11	31	18	23	27	11	8	0	1	0	
-NNW-	PCT	1.58	0.13	0.38	0.22	0.28	0.33	0.13	0.10	0.00	0.01	0.00	
CALM	NO	1											
	PCT	0.01	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
TOTAL	NO	3412	191	902	814	547	435	288	145	56	22	12	
	PCT	41.40	3.32	10.94	9.88	6.64	5.28	3.49	1.76	0.68	0.27	0.14	
AVERAGE WIND SPEED = 8.03			TOTAL VALID OBSERVATIONS = 8742										TOTAL OBSERVATIONS = 8784

MCGUIRE LOW LEVEL			FOR 1976									DATE OF REPORT 3-21-77
SUMMARY OF PASQUILL E			WIND OCCURRENCES BY SECTOR & SPEED CLASS (NO. OCCURR,PERCENT)									
			WIND SPEED CLASS									
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S
360.0	NO	60	16	32	6	2	2	1	1	0	0	0
-N-	PCT	0.73	0.19	0.39	0.07	0.02	0.02	0.01	0.01	0.00	0.00	0.00
22.5	NO	56	11	20	14	6	2	1	1	0	0	0
-NNE-	PCT	0.67	0.13	0.24	0.17	0.07	0.02	0.01	0.01	0.00	0.00	0.00
45.0	NO	121	11	36	25	13	14	20	2	0	0	0
-NE-	PCT	1.47	0.13	0.44	0.30	0.16	0.17	0.24	0.02	0.00	0.00	0.00
67.5	NO	43	8	17	15	1	1	1	0	0	0	0
-ENE-	PCT	0.52	0.10	0.21	0.18	0.01	0.01	0.01	0.00	0.00	0.00	0.00
90.0	NO	32	12	12	7	0	1	0	0	0	0	0
-E-	PCT	0.39	0.14	0.14	0.08	0.00	0.01	0.00	0.00	0.00	0.00	0.00
112.5	NO	27	8	13	5	1	0	0	0	0	0	0
-ESE-	PCT	0.33	0.10	0.16	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00
135.0	NO	38	14	18	5	1	0	0	0	0	0	0
-SE-	PCT	0.46	0.17	0.22	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00
157.5	NO	66	17	30	14	4	0	0	0	0	0	0
-SSE-	PCT	0.79	0.21	0.36	0.17	0.05	0.00	0.00	0.00	0.00	0.00	0.00
180.0	NO	212	51	107	39	13	2	0	0	0	0	0
-S-	PCT	2.57	0.62	1.30	0.47	0.16	0.02	0.00	0.00	0.00	0.00	0.00
202.5	NO	426	80	128	104	60	41	9	2	1	1	0
-SSW-	PCT	5.17	0.97	1.55	1.26	0.73	0.50	0.11	0.02	0.01	0.01	0.00
225.0	NO	265	60	67	55	33	16	16	16	0	2	0
-SW-	PCT	3.22	0.73	0.81	0.67	0.40	0.19	0.19	0.19	0.00	0.02	0.00
247.5	NO	93	30	32	22	5	4	0	0	0	0	0
-WSW-	PCT	1.13	0.36	0.39	0.27	0.06	0.05	0.00	0.00	0.00	0.00	0.00
270.0	NO	142	43	49	28	8	10	2	1	1	0	0
-W-	PCT	1.72	0.52	0.59	0.34	0.10	0.12	0.02	0.01	0.01	0.00	0.00
292.5	NO	141	27	27	37	30	12	5	1	1	1	0
-WNW-	PCT	1.71	0.33	0.33	0.45	0.26	0.14	0.06	0.01	0.01	0.01	0.00
315.0	NO	110	17	20	30	23	8	5	4	3	0	0
-NW-	PCT	1.33	0.21	0.34	0.26	0.28	0.10	0.06	0.05	0.04	0.00	0.00
337.5	NO	58	10	14	10	14	7	1	1	1	0	0
-NNW-	PCT	0.70	0.12	0.17	0.12	0.17	0.08	0.01	0.01	0.01	0.00	0.00
CALM	NO	6										
	PCT	0.07	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TOTAL	NO	1888	415	622	416	214	120	61	29	7	4	0
	PCT	22.91	5.03	7.55	5.05	2.60	1.46	0.74	0.35	0.08	0.05	0.00
AVERAGE WIND SPEED = 5.88			TOTAL VALID OBSERVATIONS = 8242					TOTAL OBSERVATIONS = 8784				

MCQUIRE LOW LEVEL			FOR 1976									DATE OF REPORT 3-21-77
SUMMARY OF PASQUILL F			WIND OCCURRENCES BY SECTOR & SPEED CLASS (NO. OCCURR,PERCENT)									
			WIND SPEED CLASS									
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S
360.0	NO	21	6	9	6	0	0	0	0	0	0	0
-N-	PCT	0.25	0.07	0.11	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22.5	NO	10	5	3	2	0	0	0	0	0	0	0
-NNE-	PCT	0.12	0.06	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	NO	19	7	8	2	0	0	2	0	0	0	0
-NE-	PCT	0.23	0.08	0.10	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00
67.5	NO	2	0	2	0	0	0	0	0	0	0	0
-ENE-	PCT	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	NO	5	3	2	0	0	0	0	0	0	0	0
-E-	PCT	0.06	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	NO	6	5	0	0	1	0	0	0	0	0	0
-ESE-	PCT	0.07	0.06	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
135.0	NO	16	8	8	0	0	0	0	0	0	0	0
-SE-	PCT	0.19	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	NO	30	22	7	0	0	1	0	0	0	0	0
-SSE-	PCT	0.36	0.27	0.08	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
180.0	NO	167	60	80	26	1	0	0	0	0	0	0
-S-	PCT	2.03	0.73	0.97	0.31	0.01	0.00	0.00	0.00	0.00	0.00	0.00
202.5	NO	196	63	80	40	11	1	1	0	0	0	0
-SSW-	PCT	2.38	0.76	0.97	0.49	0.13	0.01	0.01	0.00	0.00	0.00	0.00
225.0	NO	83	51	23	8	1	0	0	0	0	0	0
-SW-	PCT	1.01	0.62	0.28	0.10	0.01	0.00	0.00	0.00	0.00	0.00	0.00
247.5	NO	48	30	15	2	0	1	0	0	0	0	0
-WSW-	PCT	0.58	0.36	0.18	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00
270.0	NO	71	42	23	5	0	1	0	0	0	0	0
-W-	PCT	0.86	0.61	0.28	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00
292.5	NO	44	16	22	3	2	0	1	0	0	0	0
-WNW-	PCT	0.53	0.19	0.27	0.04	0.02	0.00	0.01	0.00	0.00	0.00	0.00
315.0	NO	39	22	9	3	3	2	0	0	0	0	0
-NW-	PCT	0.47	0.77	0.11	0.04	0.04	0.02	0.00	0.00	0.00	0.00	0.00
337.5	NO	11	4	5	1	1	0	0	0	0	0	0
-NNW-	PCT	0.13	0.05	0.06	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
CALM	NO	3										
	PCT	0.04	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TOTAL	NO	768	344	296	98	20	6	4	0	0	0	0
	PCT	9.32	4.17	3.59	1.19	0.24	0.07	0.05	0.00	0.00	0.00	0.00
AVERAGE WIND SPEED = 3.85			TOTAL VALID OBSERVATIONS = 8742					TOTAL OBSERVATIONS = 8784				

MCGUIRE LOW LEVEL			FOR 1976									DATE OF REPORT 3-21-77	
SUMMARY OF PASQUILL G			WIND OCCURRENCES BY SECTOR & SPEED CLASS (NO. OCCURR,PERCENT)										
			WIND SPEED CLASS										
Wind Sector	Item	Sector Total	1.0-3.2 .45-1.49	3.3-5.5 1.5-2.49	5.6-7.8 2.5-3.49	7.9-10.0 3.5-4.49	10.1-12.3 4.5-5.49	12.4-14.5 5.5-6.49	14.6-16.7 6.5-7.49	16.8-19.0 7.5-8.49	19.1-21.2 8.5-9.49	>21.2 MPH >9.5 M/S	
360.0	NO	19	10	8	1	0	0	0	0	0	0	0	
-N-	PCT	0.23	0.12	0.10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22.5	NO	13	8	2	3	0	0	0	0	0	0	0	
-NNE-	PCT	0.16	0.10	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
45.0	NO	15	11	3	1	0	0	0	0	0	0	0	
-NE-	PCT	0.18	0.13	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
67.5	NO	8	5	3	0	0	0	0	0	0	0	0	
-ENE-	PCT	0.10	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
90.0	NO	11	9	2	0	0	0	0	0	0	0	0	
-E-	PCT	0.13	0.11	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
112.5	NO	15	15	0	0	0	0	0	0	0	0	0	
-ESE-	PCT	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
135.0	NO	12	9	2	1	0	0	0	0	0	0	0	
-SE-	PCT	0.15	0.11	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
157.5	NO	35	30	5	0	0	0	0	0	0	0	0	
-SSE-	PCT	0.42	0.36	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
180.0	NO	221	160	56	4	1	0	0	0	0	0	0	
-S-	PCT	2.68	1.94	0.68	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
202.5	NO	298	250	37	10	1	0	0	0	0	0	0	
-SSW-	PCT	3.62	3.03	0.45	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
225.0	NO	190	174	11	5	0	0	0	0	0	0	0	
-SW-	PCT	2.31	2.11	0.13	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
247.5	NO	83	80	3	0	0	0	0	0	0	0	0	
-WSW-	PCT	1.01	0.97	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
270.0	NO	86	69	15	2	0	0	0	0	0	0	0	
-W-	PCT	1.04	0.84	0.18	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
292.5	NO	51	31	17	3	0	0	0	0	0	0	0	
-WNW-	PCT	0.62	0.38	0.21	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
315.0	NO	31	26	5	0	0	0	0	0	0	0	0	
-NW-	PCT	0.32	0.31	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
337.5	NO	16	12	3	1	0	0	0	0	0	0	0	
-NNW-	PCT	0.19	0.14	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
CALM	NO	31											
	PCT	0.36	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
TOTAL	NO	1104	899	172	31	2	0	0	0	0	0	0	
	PCT	13.39	10.91	2.09	0.38	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
AVERAGE WIND SPEED = 2.40			TOTAL VALID OBSERVATIONS = 8242					TOTAL OBSERVATIONS = 8784					

Table 2-15. McGuire Nuclear Station Areal Distribution of Average Relative Concentration – Ground Release

(Period of Record: February 1976 – January 1977)

RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
762	5	1.100114E-05	762	185	1.928352E-06
762	10	1.512706E-05	762	190	2.679525E-06
762	15	1.840273E-05	762	195	2.498296E-06
762	20	1.663732E-05	762	200	2.724911E-06
762	25	1.435357E-05	762	205	2.897461E-06
762	30	1.404527E-05	762	210	2.797004E-06
762	35	1.146980E-05	762	215	2.867921E-06
762	40	9.479184E-06	762	220	3.257551E-06
762	45	8.210207E-06	762	225	3.123994E-06
762	50	9.718211E-06	762	230	2.316053E-06
762	55	7.629977E-06	762	235	1.86027E-06
762	60	6.253356E-06	762	240	1.453473E-06
762	65	6.928982E-06	762	245	1.460804E-06
762	70	5.868087E-06	762	250	1.308128E-06
762	75	6.452764E-06	762	255	1.218149E-06
762	80	5.686028E-06	762	260	1.048791E-06
762	85	5.387780E-06	762	265	1.087608E-06
762	90	6.804099E-06	762	270	1.090868E-06
762	95	4.512206E-06	762	275	6.546528E-07
762	100	5.058478E-06	762	280	8.641419E-07
762	105	3.778013E-06	762	285	6.286680E-07
762	110	4.972209E-06	762	290	1.216863E-06
762	115	4.034887E-06	762	295	1.312750E-06
762	120	2.816892E-06	762	300	1.632035E-06
762	125	2.631868E-06	762	305	1.074600E-06
762	130	2.094741E-06	762	310	8.904013E-07
762	135	1.938633E-06	762	315	9.002467E-07
762	140	1.904416E-06	762	320	1.394047E-06
762	145	2.597179E-06	762	325	1.713729E-06
762	150	1.948030E-06	762	330	2.202206E-06
762	155	1.666292E-06	762	335	2.354083E-06
762	160	1.942087E-06	762	340	3.268456E-06
762	165	1.857107E-06	762	345	3.066058E-06
762	170	2.120291E-06	762	350	4.391539E-06
762	175	2.002869E-06	762	355	5.160246E-06
762	180	2.234960E-06	762	360	7.513811E-06
THE TOTAL AT THIS RADIUS IS		3.074282E-04			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: February 1976 - January 1977)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
2413	5	3.142406E-06	2413	185	3.199540E-07
2413	10	4.215510E-06	2413	190	6.038657E-07
2413	15	5.211413E-06	2413	195	4.691346E-07
2413	20	4.575084E-06	2413	200	4.959422E-07
2413	25	3.877826E-06	2413	205	5.571192E-07
2413	30	3.954578E-06	2413	210	5.136347E-07
2413	35	3.110682E-06	2413	215	5.303257E-07
2413	40	2.587219E-06	2413	220	6.287581E-07
2413	45	2.290222E-06	2413	225	5.924690E-07
2413	50	2.934275E-06	2413	230	3.945031E-07
2413	55	2.189099E-06	2413	235	3.356001E-07
2413	60	1.729025E-06	2413	240	2.305999E-07
2413	65	1.999503E-06	2413	245	2.525123E-07
2413	70	1.637801E-06	2413	250	2.350578E-07
2413	75	1.911524E-06	2413	255	2.530587E-07
2413	80	1.603586E-06	2413	260	2.229283E-07
2413	85	1.440562E-06	2413	265	2.543359E-07
2413	90	1.961495E-06	2413	270	2.749117E-07
2413	95	1.082961E-06	2413	275	1.140358E-07
2413	100	1.308671E-06	2413	280	2.096408E-07
2413	105	8.623559E-07	2413	285	1.150835E-07
2413	110	1.319492E-06	2413	290	3.095329E-07
2413	115	1.011236E-06	2413	295	3.068657E-07
2413	120	6.647126E-07	2413	300	4.128588E-07
2413	125	6.542543E-07	2413	305	2.198730E-07
2413	130	4.906457E-07	2413	310	1.639474E-07
2413	135	4.265830E-07	2413	315	1.501350E-07
2413	140	3.984922E-07	2413	320	2.964651E-07
2413	145	6.646467E-07	2413	325	3.590568E-07
2413	150	4.602381E-07	2413	330	5.160981E-07
2413	155	3.632336E-07	2413	335	5.470326E-07
2413	160	4.187023E-07	2413	340	8.560595E-07
2413	165	3.642940E-07	2413	345	7.335070E-07
2413	170	4.399072E-07	2413	350	1.176228E-06
2413	175	3.716837E-07	2413	355	1.376323E-06
2413	180	4.376872E-07	2413	360	2.135983E-06
THE TOTAL AT THIS RADIUS IS		7.927451E-05			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: February 1976 - January 1977)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
4022	5	1.666995E-06	4022	185	1.451357E-07
4022	10	2.225827E-06	4022	190	3.025413E-07
4022	15	2.758576E-06	4022	195	2.226539E-07
4022	20	2.407504E-06	4022	200	2.326315E-07
4022	25	2.034932E-06	4022	205	2.659291E-07
4022	30	2.092223E-06	4022	210	2.409884E-07
4022	35	1.633156E-06	4022	215	2.499388E-07
4022	40	1.359924E-06	4022	220	2.998956E-07
4022	45	1.211827E-06	4022	225	2.807830E-07
4022	50	1.573477E-06	4022	230	1.799281E-07
4022	55	1.163588E-06	4022	235	1.564677E-07
4022	60	9.126606E-07	4022	240	1.020587E-07
4022	65	1.062958E-06	4022	245	1.156035E-07
4022	70	8.664979E-07	4022	250	1.093388E-07
4022	75	1.021607E-06	4022	255	1.237549E-07
4022	80	8.496167E-07	4022	260	1.100000E-07
4022	85	7.548081E-07	4022	265	1.287291E-07
4022	90	1.040945E-06	4022	270	1.416379E-07
4022	95	5.532416E-07	4022	275	5.269834E-08
4022	100	6.776215E-07	4022	280	1.070264E-07
4022	105	4.348386E-07	4022	285	5.441336E-08
4022	110	6.878377E-07	4022	290	1.598185E-07
4022	115	5.206782E-07	4022	295	1.555607E-07
4022	120	3.377234E-07	4022	300	2.128242E-07
4022	125	3.361005E-07	4022	305	1.071566E-07
4022	130	2.486449E-07	4022	310	7.709298E-08
4022	135	2.122096E-07	4022	315	6.798513E-08
4022	140	1.958831E-07	4022	320	1.459438E-07
4022	145	3.428641E-07	4022	325	1.761965E-07
4022	150	2.337721E-07	4022	330	2.608626E-07
4022	155	1.809257E-07	4022	335	2.770194E-07
4022	160	2.069517E-07	4022	340	4.446289E-07
4022	165	1.756001E-07	4022	345	3.737502E-07
4022	170	2.148849E-07	4022	350	6.151922E-07
4022	175	1.756414E-07	4022	355	7.202115E-07
4022	180	2.103686E-07	4022	360	1.133622E-06
THE TOTAL AT THIS RADIUS IS 4.113244E-05					

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: February 1976 - January 1977)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
5631	5	1.088399E-06	5631	185	8.699726E-08
5631	10	1.450825E-06	5631	190	1.917655E-07
5631	15	1.799648E-06	5631	195	1.369943E-07
5631	20	1.566219E-06	5631	200	1.422239E-07
5631	25	1.322175E-06	5631	205	1.640317E-07
5631	30	1.364120E-06	5631	210	1.472909E-07
5631	35	1.061283E-06	5631	215	1.530782E-07
5631	40	8.840242E-07	5631	220	1.850975E-07
5631	45	7.902109E-07	5631	225	1.727548E-07
5631	50	1.032456E-06	5631	230	1.081906E-07
5631	55	7.603632E-07	5631	235	9.529907E-08
5631	60	5.943866E-07	5631	240	6.016472E-08
5631	65	6.948812E-07	5631	245	6.969719E-08
5631	70	5.650199E-07	5631	250	6.644257E-08
5631	75	6.692725E-07	5631	255	7.740522E-08
5631	80	5.544672E-07	5631	260	6.914627E-08
5631	85	4.899923E-07	5631	265	8.210793E-08
5631	90	6.798382E-07	5631	270	9.114007E-08
5631	95	3.548447E-07	5631	275	3.199355E-08
5631	100	4.376075E-07	5631	280	6.854856E-08
5631	105	2.769281E-07	5631	285	3.340252E-08
5631	110	4.454121E-07	5631	290	1.029500E-07
5631	115	3.352278E-07	5631	295	9.926930E-08
5631	120	2.158256E-07	5631	300	1.370251E-07
5631	125	2.160912E-07	5631	305	6.692483E-08
5631	130	1.586229E-07	5631	310	4.723199E-08
5631	135	1.341764E-07	5631	315	4.072678E-08
5631	140	1.231754E-07	5631	320	9.165757E-08
5631	145	2.209963E-07	5631	325	1.106019E-07
5631	150	1.494568E-07	5631	330	1.662397E-07
5631	155	1.143684E-07	5631	335	1.768344E-07
5631	160	1.303754E-07	5631	340	2.875033E-07
5631	165	1.090945E-07	5631	345	2.394314E-07
5631	170	1.345252E-07	5631	350	3.991985E-07
5631	175	1.078689E-07	5631	355	4.673320E-07
5631	180	1.304827E-07	5631	360	7.406161E-07
THE TOTAL AT THIS RADIUS IS		2.656953E-06			

RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
7241	5	7.920631E-07	7241	185	5.971498E-08
7241	10	1.055039E-06	7241	190	1.368309E-07
7241	15	1.309239E-06	7241	195	9.577303E-08
7241	20	1.137386E-06	7241	200	9.900083E-08
7241	25	9.594996E-07	7241	205	1.148418E-07
7241	30	9.918704E-07	7241	210	1.024955E-07
7241	35	7.701783E-07	7241	215	1.066994E-07
7241	40	6.414751E-07	7241	220	1.297136E-07
7241	45	5.745432E-07	7241	225	1.208327E-07
7241	50	7.536082E-07	7241	230	7.443265E-08
7241	55	5.535612E-07	7241	235	6.616625E-08
7241	60	4.318491E-07	7241	240	4.076389E-08
7241	65	5.061067E-07	7241	245	4.804358E-08
7241	70	4.108504E-07	7241	250	4.602504E-08
7241	75	4.880370E-07	7241	255	5.472457E-08
7241	80	4.034172E-07	7241	260	4.905812E-08
7241	85	3.553278E-07	7241	265	5.885919E-08
7241	90	4.948407E-07	7241	270	6.570338E-08
7241	95	2.554274E-07	7241	275	2.218379E-08
7241	100	3.164138E-07	7241	280	4.926511E-08
7241	105	1.983697E-07	7241	285	2.331529E-08
7241	110	3.224997E-07	7241	290	7.426775E-08
7241	115	2.418658E-07	7241	295	7.117177E-08
7241	120	1.549177E-07	7241	300	9.882990E-08
7241	125	1.557457E-07	7241	305	4.728210E-08
7241	130	1.136992E-07	7241	310	3.294451E-08
7241	135	9.564690E-08	7241	315	2.795450E-08
7241	140	8.752556E-08	7241	320	6.500255E-08
7241	145	1.595906E-07	7241	325	7.845836E-08
7241	150	1.073391E-07	7241	330	1.190958E-07
7241	155	8.147373E-08	7241	335	1.268702E-07
7241	160	9.269496E-08	7241	340	2.080166E-07
7241	165	7.682735E-08	7241	345	1.722291E-07
7241	170	9.525201E-08	7241	350	2.894905E-07
7241	175	7.534635E-08	7241	355	3.388514E-07
7241	180	9.177472E-08	7241	360	5.392753E-07
1.920509E-05					

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: February 1976 - January 1977)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
12067	5	4.201996E-07	12067	185	2.836346E-08
12067	10	5.592463E-07	12067	190	7.002041E-08
12067	15	6.943444E-07	12067	195	4.714430E-08
12067	20	6.014412E-07	12067	200	4.832271E-08
12067	25	5.066422E-07	12067	205	5.664581E-08
12067	30	5.253183E-07	12067	210	4.999893E-08
12067	35	4.066627E-07	12067	215	5.212543E-08
12067	40	3.385767E-07	12067	220	6.417338E-08
12067	45	3.042967E-07	12067	225	5.959276E-08
12067	50	4.017240E-07	12067	230	3.552073E-08
12067	55	2.937767E-07	12067	235	3.215513E-08
12067	60	2.284560E-07	12067	240	1.882156E-08
12067	65	2.689085E-07	12067	245	2.300811E-08
12067	70	2.176581E-07	12067	250	2.222905E-08
12067	75	2.597657E-07	12067	255	2.750902E-08
12067	80	2.139752E-07	12067	260	2.483299E-08
12067	85	1.874154E-07	12067	265	3.040531E-08
12067	90	2.626354E-07	12067	270	3.428309E-08
12067	95	1.331081E-07	12067	275	1.077605E-08
12067	100	1.661842E-07	12067	280	2.555917E-08
12067	105	1.024322E-07	12067	285	1.144853E-08
12067	110	1.696488E-07	12067	290	3.878927E-08
12067	115	1.264985E-07	12067	295	3.676667E-08
12067	120	8.024386E-08	12067	300	5.161424E-08
12067	125	8.127637E-08	12067	305	2.376020E-08
12067	130	5.871856E-08	12067	310	1.617357E-08
12067	135	4.893066E-08	12067	315	1.329453E-08
12067	140	4.457299E-08	12067	320	3.289910E-08
12067	145	8.363321E-08	12067	325	3.977223E-08
12067	150	5.569186E-08	12067	330	6.146047E-08
12067	155	4.159283E-08	12067	335	6.569638E-08
12067	160	4.717515E-08	12067	340	1.093447E-07
12067	165	3.840045E-08	12067	345	8.966356E-08
12067	170	4.812311E-08	12067	350	1.527840E-07
12067	175	3.706500E-08	12067	355	1.787536E-07
12067	180	4.574355E-08	12067	360	2.865021E-07
THE TOTAL AT THIS RADIUS IS		1.007026E-05			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: February 1976 - January 1977)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
24135	5	1.852994E-07	24135	185	1.086945E-08
24135	10	2.464550E-07	24135	190	2.956182E-08
24135	15	3.060234E-07	24135	195	1.893751E-08
24135	20	2.642825E-07	24135	200	1.918337E-08
24135	25	2.222943E-07	24135	205	2.277986E-08
24135	30	2.311062E-07	24135	210	1.983396E-08
24135	35	1.783757E-07	24135	215	2.072738E-08
24135	40	1.483542E-07	24135	220	2.595458E-08
24135	45	1.338843E-07	24135	225	2.402331E-08
24135	50	1.779321E-07	24135	230	1.370216E-08
24135	55	1.294382E-07	24135	235	1.272282E-08
24135	60	1.004073E-07	24135	240	6.908227E-09
24135	65	1.187340E-07	24135	245	8.903040E-09
24135	70	9.580145E-08	24135	250	8.694347E-09
24135	75	1.148971E-07	24135	255	1.134631E-08
24135	80	9.432785E-08	24135	260	1.034042E-08
24135	85	8.212606E-08	24135	265	3.000051E-08
24135	90	1.158340E-07	24135	270	1.483287E-08
24135	95	5.763610E-08	24135	275	4.274813E-09
24135	100	7.256187E-08	24135	280	1.09784E-08
24135	105	4.387040E-08	24135	285	4.596888E-09
24135	110	7.411484E-08	24135	290	1.678733E-08
24135	115	5.494558E-08	24135	295	1.571840E-08
24135	120	3.446140E-08	24135	300	2.234081E-08
24135	125	3.518809E-08	24135	305	9.815349E-09
24135	130	2.510486E-08	24135	310	6.495316E-09
24135	135	2.069460E-08	24135	315	5.117300E-09
24135	140	1.879023E-08	24135	320	1.371198E-08
24135	145	3.642950E-08	24135	325	1.662624E-08
24135	150	2.397402E-08	24135	330	2.625505E-08
24135	155	1.753080E-08	24135	335	2.821237E-08
24135	160	1.980918E-08	24135	340	4.777406E-08
24135	165	1.577159E-08	24135	345	3.879489E-08
24135	170	2.004474E-08	24135	350	6.705324E-08
24135	175	1.491075E-08	24135	355	7.840350E-08
24135	180	1.869266E-08	24135	360	1.265778E-07
THE TOTAL AT THIS RADIUS IS		4.381928E-06			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: February 1976 - January 1977)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
40225	5	1.053335E-07	40225	185	5.609344E-09
40225	10	1.400183E-07	40225	190	1.633114E-08
40225	15	1.738490E-07	40225	195	1.010740E-08
40225	20	1.498983E-07	40225	200	1.014321E-08
40225	25	1.259644E-07	40225	205	1.215613E-08
40225	30	1.311337E-07	40225	210	1.048373E-08
40225	35	1.010408E-07	40225	215	1.097740E-08
40225	40	8.394369E-08	40225	220	1.391592E-08
40225	45	7.597680E-08	40225	225	1.285641E-08
40225	50	1.013464E-07	40225	230	7.105921E-09
40225	55	7.345449E-08	40225	235	6.728126E-09
40225	60	5.695514E-08	40225	240	3.444777E-09
40225	65	6.750969E-08	40225	245	4.619356E-09
40225	70	5.437841E-08	40225	250	4.550614E-09
40225	75	6.540432E-08	40225	255	6.167109E-09
40225	80	5.359934E-08	40225	260	5.659370E-09
40225	85	4.650423E-08	40225	265	7.246602E-09
40225	90	6.582547E-08	40225	270	8.331792E-09
40225	95	3.242682E-08	40225	275	2.268499E-09
40225	100	4.101832E-08	40225	280	6.135320E-09
40225	105	2.451332E-08	40225	285	2.460579E-09
40225	110	4.188697E-08	40225	290	9.424284E-09
40225	115	3.095286E-08	40225	295	8.761333E-09
40225	120	1.928190E-08	40225	300	1.254246E-08
40225	125	1.977356E-08	40225	305	5.347136E-09
40225	130	1.400198E-08	40225	310	3.471925E-09
40225	135	1.145928E-08	40225	315	2.654525E-09
40225	140	1.039384E-08	40225	320	7.514959E-09
40225	145	2.056291E-08	40225	325	9.130016E-09
40225	150	1.343293E-08	40225	330	1.463154E-08
40225	155	9.683124E-09	40225	335	1.578102E-08
40225	160	1.091074E-08	40225	340	2.700981E-08
40225	165	8.559866E-09	40225	345	2.182132E-08
40225	170	1.098782E-08	40225	350	3.801206E-08
40225	175	7.978972E-09	40225	355	4.444134E-08
40225	180	1.009680E-08	40225	360	7.202601E-08
THE TOTAL AT THIS RADIUS IS		2.469896E-06			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: February 1976 - January 1977)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
56315	5	7.403696E-08	56315	185	3.715989E-09
56315	10	9.836816E-08	56315	190	1.128553E-08
56315	15	1.221202E-07	56315	195	6.838295E-09
56315	20	1.052211E-07	56315	200	6.818947E-09
56315	25	8.836992E-08	56315	205	8.220034E-09
56315	30	9.205473E-08	56315	210	7.047284E-09
56315	35	7.086447E-08	56315	215	7.389172E-09
56315	40	5.882592E-08	56315	220	9.439763E-09
56315	45	5.334219E-08	56315	225	8.712430E-09
56315	50	7.128995E-08	56315	230	4.721901E-09
56315	55	5.154620E-08	56315	235	4.529657E-09
56315	60	3.997937E-08	56315	240	2.230342E-09
56315	65	4.744152E-08	56315	245	3.067726E-09
56315	70	3.818018E-08	56315	250	3.041472E-09
56315	75	4.599643E-08	56315	255	4.219938E-09
56315	80	3.765718E-08	56315	260	3.889006E-09
56315	85	3.261068E-08	56315	265	5.035673E-09
56315	90	4.624695E-08	56315	270	5.815995E-09
56315	95	2.266416E-08	56315	275	1.531396E-09
56315	100	2.873913E-08	56315	280	4.268895E-09
56315	105	1.706714E-08	56315	285	1.670821E-09
56315	110	2.933868E-08	56315	290	6.573821E-09
56315	115	2.164510E-08	56315	295	6.088278E-09
56315	120	1.343419E-08	56315	300	8.748650E-09
56315	125	1.380522E-08	56315	305	3.665242E-09
56315	130	9.736766E-09	56315	310	2.352405E-09
56315	135	7.933050E-09	56315	315	1.765771E-09
56315	140	7.192959E-09	56315	320	5.170143E-09
56315	145	1.439675E-08	56315	325	6.287021E-09
56315	150	9.364786E-09	56315	330	1.016780E-08
56315	155	6.693178E-09	56315	335	1.099011E-08
56315	160	7.527849E-09	56315	340	1.892523E-08
56315	165	5.853636E-09	56315	345	1.525108E-08
56315	170	7.561439E-09	56315	350	2.667288E-08
56315	175	5.410836E-09	56315	355	3.118796E-08
56315	180	6.879976E-09	56315	360	5.064489E-08
THE TOTAL AT THIS RADIUS IS		1.727352E-06			

McGuire Nuclear Station					
Areal Distribution of Average Relative Concentration – Ground Release					
(Period of Record: February 1976 – January 1977)					
RADIUS	ANGLE	RELATIVE CONCENTRATION	RADIUS	ANGLE	RELATIVE CONCENTRATION
72405	5	5.748820E-08	72405	185	2.768750E-09
72405	10	7.634634E-08	72405	190	8.662081E-09
72405	15	9.477901E-08	72405	195	5.171326E-09
72405	20	8.162658E-08	72405	200	5.131994E-09
72405	25	6.852656E-08	72405	205	6.212908E-09
72405	30	7.141062E-08	72405	210	5.304319E-09
72405	35	5.494260E-08	72405	215	5.567131E-09
72405	40	4.557295E-08	72405	220	7.151076E-09
72405	45	4.138312E-08	72405	225	6.595808E-09
72405	50	5.537714E-08	72405	230	3.525637E-09
72405	55	3.996556E-08	72405	235	3.415368E-09
72405	60	3.101447E-08	72405	240	1.634039E-09
72405	65	3.682466E-08	72405	245	2.288447E-09
72405	70	2.962157E-08	72405	250	2.280420E-09
72405	75	3.572369E-08	72405	255	3.216819E-09
72405	80	2.922853E-08	72405	260	2.973337E-09
72405	85	2.528054E-08	72405	265	3.880075E-09
72405	90	3.589363E-08	72405	270	4.495060E-09
72405	95	1.753393E-08	72405	275	1.157058E-09
72405	100	2.226767E-08	72405	280	3.291669E-09
72405	105	1.317036E-08	72405	285	1.268124E-09
72405	110	2.272590E-08	72405	290	5.077286E-09
72405	115	1.674985E-08	72405	295	4.691294E-09
72405	120	1.037175E-08	72405	300	6.756640E-09
72405	125	1.067061E-08	72405	305	2.797760E-09
72405	130	7.507381E-09	72405	310	1.781191E-09
72405	135	6.097178E-09	72405	315	1.320053E-09
72405	140	5.527376E-09	72405	320	3.956568E-09
72405	145	1.114999E-08	72405	325	4.813565E-09
72405	150	7.232046E-09	72405	330	7.835364E-09
72405	155	5.138826E-09	72405	335	8.480672E-09
72405	160	5.771965E-09	72405	340	1.466376E-08
72405	165	4.460510E-09	72405	345	1.179915E-08
72405	170	5.788131E-09	72405	350	2.068568E-08
72405	175	4.099846E-09	72405	355	2.41916E-08
72405	180	5.227800E-09	72405	360	3.932876E-08
THE TOTAL AT THIS RADIUS IS		1.336649E-06			

Table 2-16. Domestic Water Supplies

Key Number	Intake Name	County And State	Source	Average Daily Use - MGD	Population Served
1	Catawba	Catawba, N. C.	Ground	Not Available	Not Available
2	Mooreville	Iredell, N. C.	Lake Norman	4.0	9,000
3	Maiden	Catawba, N. C.	Ground	Not Available	Not Available
4	Maiden	Catawba, N. C.	Maiden Creek	1.0	2,000
5	Davidson	Mecklenburg, N. C.	Lake Norman	.75	4,000
6	Cornelius	Mecklenburg, N. C.	Ground	0.20	1,700
7	Lincolnton #1	Lincoln, N. C.	South Fork Catawba River	22.6	14,200
8	Lincolnton #2	Lincoln, N. C.	Clark Creek	.60	
9	Concord	Cabarrus, N. C.	Coldwater Creek	12	26,000
10	Huntersville	Mecklenburg, N. C.	Surface	.50	1,800
11	Stanley	Gaston, N. C.	Hoyle Creek	0.76	3,300
12	Charlotte #1	Mecklenburg, N. C.	Mt. Island Lake	25.0	280,000
13	Charlotte #2	Mecklenburg, N. C.	Mt. Island Lake	24.0	
14	Bessemer City	Gaston, N. C.	Long Creek	1.05	5,000
15	Gastonia	Gaston, N. C.	South Fork Catawba River	15.0	42,000
16	Mt. Holly	Gaston, N. C.	Lake Wylie	1.35	6,500
17	McAdenville	Gaston, N. C.	Ground	0.23	1,100
18	Cramerton	Gaston, N. C.	South Fork Catawba River	1.0	Not Available
19	Belmont	Gaston, N. C.	Lake Wylie	5.10	8,000
20	Springs Mills	York, S. C.	Catawba River	0.7	Not Available
21	Rock Hill	York, S. C.	Catawba River	4.0	Not Available

Key Number	Intake Name	County And State	Source	Average Daily Use - MGD	Population Served
22	Springs Mills	Lancaster, S. C.	Catawba River	15.5	Not Available
23	Chester	Chester, S. C.	Catawba River	2.65	Not Available
24	Midas Spring Water, Inc.	Mecklenburg, N. C.	Ground	Not Available	Not Available
10a	Huntersville	Mecklenburg, N. C.	Ground	(Well not in use)	

Table 2-17. Catawba River Reservoir Pool Elevations

Reservoir	Operating Level (M.S.L.)	Full Pool (M.S.L.)
Bridgewater	1,198.0	1,200.0
Rhodhiss	992.1	995.1
Oxford	932.5	935.0
Lookout Shoals	835.6	838.1
Cowans Ford	757.0	760.0

Table 2-18. Estimated Flood Frequency of the Catawba River at the McGuire Nuclear Site

Return Period Years	Annual Peak Flow CFS
10	86,000
100	197,000
500	317,000
1,000	374,000
10,000	636,000PMF

Table 2-19. Hourly Amounts of Rainfall Excess in Inches for PMF Storm Number 13 PMP Centered Over Cowams Ford Reservoir. Time in Hours @ End Period

Rainfall Sta. No.	Distribution in accordance with station*	1 2 3 4 5	6 7 8 9	10 11 12 13 14	15 16 17 18 19	20 21 22 23 24	25 26 27 28 29
1	Gaston Shoals	.14 .14 .14 .14 .14	.14 .23 .23 .23	.23 .24 .24 37 .37	.37 .37 .38 .38 .98	.98 .98 .98 .98 .98	.47 .47 .47 .47 .46
2	Caroleen	.06 .06 .06 .07 .07	.07 .21 .21 .22	.22 .22 .22 .33 .33	.33 .33 .33 .33 .75	.74 .74 .74 .74 .74	.70 .70 .70 .70 .70
3	Caroleen	.07 .07 .07 .07 .07	.08 .23 .24 .24	.24 .24 .24 .36 .36	.36 .36 .36 .37 .82	.82 .82 .82 .81 .81	.77 .77 .77 .77 .77
4	Hendersonville	.08 .08 .08 .08 .08	.09 .04 .04 .04	.04 .04 .05 .06 .06	.06 .06 .06 .05 .04	.04 .04 .04 .04 .05	.59 .58 .59 .59 .59
5	Hendersonville	.08 .08 .08 .09 .09	.09 .04 .04 .04	.04 .05 .05 .06 .06	.06 .06 .06 .07 .04	.04 .04 .04 .05 .05	.61 .61 .61 .61 .62
6	Caroleen	.06 .07 .07 .07 .07	.07 .22 .22 .23	.23 .23 .23 .34 .34	.34 .34 .35 .35 .78	.78 .77 .77 .77 .77	.73 .73 .73 .73 .73
7	Marion	.06 .06 .06 .07 .07	.07 .11 .11 .11	.11 .11 .11 .15 .15	.15 .15 .15 .16 .63	.63 .63 .63 .63 .64	1.16 1.15 1.15 1.15 1.15
8	Caroleen	.07 .07 .07 .07 .07	.07 .23 .23 .23	.23 .24 .24 .35 .35	.35 .35 .35 .36 .80	.80 .80 .79 .79 .79	.75 .75 .75 .75 .75
9	Marion	.04 .04 .04 .05 .05	.05 .07 .07 .07	.08 .08 .08 .10 .10	.10 .11 .11 .11 .43	.43 .43 .44 .44 .44	.80 .79 .79 .79 .79
10	Morganton	.02 .03 .03 .03 .03	.03 .07 .07 .08	.08 .08 .08 .08 .08	.08 .08 .08 .08 .47	.47 .47 .47 .48 .48	.58 .58 .58 .58 .58
11	Marion	.07 .07 .08 .08 .08	.08 .13 .13 .13	.13 .13 .13 .17 .18	.18 .18 .18 .18 .74	.74 .75 .75 .75 .75	1.36 1.36 1.36 1.36 1.36
12	Morganton	.03 .03 .03 .03 .04	.04 .09 .09 .09	.10 .10 .10 .09 .09	.10 .10 .10 .10 .57	.57 .57 .57 .58 .58	.70 .70 .70 .70 .71
13	Morganton	.03 .03 .03 .03 .04	.04 .09 .09 .09	.10 .10 .10 .09 .09	.10 .10 .10 .10 .57	.57 .57 .57 .58 .58	.70 .70 .70 .70 .71
14	Marion	.07 .07 .07 .07 .07	.07 .12 .12 .12	.12 .12 .12 .16 .16	.16 .17 .17 .17 .68	.69 .69 .69 .69 .69	1.26 1.26 1.26 1.26 1.26
15	Globe	.10 .10 .10 .10 .11	.11 .15 .15 .15	.15 .15 .15 .15 .16	.16 .16 .16 .16 .70	.70 .70 .70 .70 .70	1.32 1.32 1.32 1.32 1.32
16	Blowing Rock	.15 .15 .15 .15 .15	.15 .17 .17 .17	.17 .17 .17 .22 .22	.22 .23 .23 .23 .71	.71 .72 .72 .72 .72	1.57 1.57 1.57 1.56 1.56
17	Blowing Rock	.14 .14 .14 .14 .15	.15 .16 .16 .16	.16 .17 .17 .21 .21	.21 .21 .22 .22 .68	.68 .68 .68 .68 .69	1.48 1.49 1.49 1.49 1.49

* Distribution stations are for July 1916 storm

Rainfall Sta. No.	Distribution in accordance with station*	30 31 32 33 34	35 36 37 38 39	40 41 42 43 44 45	46 47 48 49 50	51 52 53 54	Total Inches
1	Gaston Shoals	.46 .05 .05 .05 .05	.04 .04 0 0 0	0 0 0 0 .04 .05	.05 .05 .05 .05 .05	.05 .05 .04 .04	14.0
2	Caroleen	.70 .17 .17 .17 .17	.17 .17 0 0 0	0 0 0 .09 .09 .09	.09 .08 .08 .03 .03	.02 .02 .02 .02	14.0
3	Caroleen	.77 .19 .19 .19 .19	.19 .18 0 0 0	0 0 0 .09 .09 .09	.10 .10 .10 .03 .03	.03 .02 .02 .02	15.4
4	Hendersonville	.59 .90 .90 .90 .90	.89 .89 .70 .70 .70	.69 .69 .69 .10 .10 .10	.10 .10 .10 .07 .06	.06 .06 .06 .06	15.4
5	Hendersonville	.62 .93 .93 .93 .93	.93 .93 .73 .73 .72	.72 .72 .72 .11 .11 .10	.10 .10 .10 .07 .07	.06 .06 .06 .06	16.0
6	Caroleen	.73 .18 .18 .18 .18	.17 .17 0 0 0	0 0 0 .09 .09 .09	.09 .09 .09 .03 .03	.03 .02 .02 .02	14.5
7	Marion	1.15 .22 .22 .22 .21	.21 .21 .07 .07 .07	.06 .06 .06 .09 .09 .09	.09 .09 .09 .09 .09	.09 .09 .08 .08	15.4
8	Caroleen	.75 .19 .18 .18 .18	.18 .18 0 0 0	0 0 0 .10 .10 .09	.09 .09 .09 .03 .03	.03 .02 .02 .02	15.0
9	Marion	.79 .15 .15 .15 .15	.15 .14 .05 .05 .04	.04 .04 .05 .07 .06 .06	.06 .06 .06 .06 .06	.06 .06 .06 .06	10.6
10	Morganton	.58 .61 .61 .61 .60	.60 .60 .37 .37 .37	.37 .36 .36 .29 .29 .29	.29 .29 .29 0 0	0 0 0 0	15.0
11	Marion	1.36 .26 .26 .26 .25	.25 .25 .07 .07 .08	.08 .08 .08 .10 .10 .11	.11 .11 .11 .11 .11	.10 .10 .10 .10	18.2
12	Morganton	.71 .74 .74 .73 .73	.73 .73 .45 .45 .45	.45 .44 .44 .36 .35 .35	.35 .35 .35 0 0	0 0 0 0	18.2
13	Morganton	.71 .74 .74 .73 .73	.73 .73 .45 .45 .45	.45 .44 .44 .36 .35 .35	.35 .35 .35 0 0	0 0 0 0	18.2
14	Marion	1.26 .74 .74 .74 .23	.23 .23 .07 .07 .07	.07 .07 .07 .10 .10 .10	.10 .10 .09 .10 .10	.10 .09 .09 .09	16.8
15	Globe	1.32 1.50 1.50 1.50 1.50	1.50 1.49 .48 .48 .48	.48 .48 .48 .24 .24 .23	.23 .23 .23 .03 .03	.02 .02 .02 .02	28.0
16	Blowing Rock	1.56 1.02 1.02 1.02 1.02	1.01 1.01 .22 .22 .22	.22 .22 .22 .11 .11 .10	.10 .10 .10 0 0	0 0 0 0	25.0
17	Blowing Rock	1.49 .97 .97 .97 .97	.97 .96 .21 .21 .21	.21 .21 .21 .10 .10 .10	.10 .10 .09 0 0	0 0 0 0	23.8

* Distribution stations are for July 1916 storm

Table 2-20. Wind-Wave Data - Cowans Ford Dam

Design Data	40 mph @ El 767.9' msl (Sustained Wind)	96 mph @ El 760' msl (Hurricane Wind)
Significant Wave Period	3.4 seconds	5.2 seconds
Significant Wave Height	2.7 feet	7.24 feet
Maximum Wave Height	5.05 feet	13.54 feet
Wave Length	59 feet	138.5 feet
Water Depth (min.)	52.9 feet	45 feet
Water Depth (max.)	67.9 feet	60 feet
Setup	0.16 feet	0.90 feet
Azimuth to Intake Structure	312°-40'	312°-40'
Slope of Structure	See Former Appendix 2F, Plate XVI	See Former Appendix 2F, Plate XVI
Wind Direction	N	N
Seich	-	1.93 feet
Significant Runup	3.65 feet	9.41 feet
Maximum Runup	4.95 feet	11.92 feet
Elevation of Maximum Runup + Surge + Seich	773.01 feet msl	774.75 feet msl
Overtopping of Dam	-	-
Non-Breaking Wave Forces on Dam		
Fc (max.)	149,598.60 lb/ft	119,059.00 lb/ft
Ft (min.)	138,091.00 lb/ft	98,842.00 lb/ft
Non-Breaking Wave Moments on Dam		
Mc (max.)	3,320,800.86 lb-ft/ft	2,628,288.00 lb-ft/ft
Mt (min.)	3,125,459.60 lb-ft/ft	1,752,192.00 lb-ft/ft
Factor of Safety	2.26	2.83
Weight of Individual Riprap Units Required	139 lbs	1770 lbs
Percent Damage to Riprap Units	-	-

Table 2-21. Wind-Wave Data - McGuire Intake Structure

Design Data	40 mph @ El 767.9'msl (Sustained Wind)	96 mph @ El 760'msl (Hurricane Wind)
Significant Wave Period	3.4 seconds	5.2 seconds
Significant Wave Height	2.7 feet	7.24 feet
Maximum Wave Height	5.05 feet	13.54 feet
Wave Length	59.19 feet	138.5 feet
Water Depth	52.9 feet	45 feet
Significant Runup	0.52 feet	9.56 feet
Maximum Runup	0.79 feet	15.44 feet
Elevation of Maximum Runup	768.69 feet msl	778.27 feet msl
Overtopping of Structure	-	2.19 ft ³ /sec-ft
Non-Breaking Wave Forces on Structure		
Fc (max.)	90,802.81 lb/ft	83,398.00 lb/ft
Ft (min.)	83,817.98 lb/ft	53,071.00 lb/ft
Non-Breaking Wave Moments on Structure		
Mc (max.)	1,570,364.71 lb-ft/ft	1,250,964.00 lb-ft/ft
Mt (min.)	1,431,803.12 lb-ft/ft	682,344.00 lb-ft/ft
Factor of Safety	5.60	2.82
Factor of Safety (overturning)	3.49	2.98

Table 2-22. Ownership, Seismic and Spillway Design Criteria of Dams on Catawba River

Development	Ownership	Date First Operated	Seismic Design Criteria	Spillway Design Criteria (Flow in cfs)
Bridgewater	Duke	1919	None	97,500
Rhodhiss	Duke	1925	None	162,000
Oxford	Duke	1928	None	176,000
Lookout Shoals	Duke	1915	None	187,750
Cowans Ford	Duke	1963	None ¹	210,000
Mountain Island	Duke	1923	None	212,000
Catawba (Wylie)	Duke	1925	None	277,500
Fishing Creek	Duke	1916	None	311,700
Great Falls-Dearborn	Duke	1907-1923	None	323,500
Rocky Creek-Cedar Creek	Duke	1909-1926	None	334,300
Wateree	Duke	1919	None	353,500

Note:

1. An analysis was made of Cowans Ford Dam for a 100-year flood and one-half DBE seismic loading. Factors of safety for both concrete and earth dam structures were found to be adequate. (Refer to Former Appendix 2H, Section 2H.3.3).

Table 2-23. PMP Rainfall Intensities for The Critically Arranged Time Increments

Time Ending Hr.	Incremental PMP, Inches	Accumulative PMP, Inches
1	2.4	2.4
2	2.4	4.8
3	3.6	8.4
4	14.7	23.1
5	4.5	27.6
6	2.4	30.0

Table 2-24. Minimum Inflow for Drainage Area Between Lookout Shoals and Cowans Ford Dam

	Period (Consecutive Days)		
	120	183	274
Estimated minimum average flow in cfs/sq. mi. for 1 in 20 years recurrence interval	.251	.305	.333
Minimum average inflow in cfs into Lake Norman from drainage area between Lookout Shoals and Cowans Ford ²	63	75	84
Evaporative loss in cfs due to steam generating stations ³			
Marshall	17	17	17
McGuire	31	31	31
Total	48	48	48
Minimum average flow in cfs below Cowans Ford to be contributed by drainage area between Lookout Shoals and Cowans Ford ⁴	33	33	33
Total evaporative losses plus minimum release in cfs	81	81	81
Minimum average inflow in excess of minimum requirements in cfs	-18	-6	+3
Total change of reservoir level due to water use ⁵	-0.13	-0.07	+0.05
Estimated minimum average flow in cfs/sq. mi. for historic low flow period ⁶	.160	.207	.42
Minimum average inflow in cfs into Lake Norman from drainage area between Lookout Shoals and Cowans Ford ²	40	52	105
Evaporative loss in cfs due to steam generating stations ³			
Marshall	17	17	17
McGuire	31	31	31
Total	48	48	48
Minimum average flow in cfs below Cowans Ford to be contributed by drainage area between Lookout Shoals and Cowans Ford ⁴	33	33	33
Total evaporative losses plus minimum release in cfs	81	81	81
Minimum average inflow in excess of minimum requirements in cfs	-41	29	+24
Total change of reservoir level due to water use ⁵	-0.29	-0.33	+0.53

Notes:

1. Values for the lowest average flow for a recurrence interval of 1 in 20 years are given in USGS Water Supply Paper 1761 for the South Fork of the Catawba River, an uncontrolled tributary of the Catawba. Values for a recurrence interval of 1 in 20 years are estimated to be 1/3 times these values and applicable to the entire drainage area between Lookout Shoals and Cowans Ford.
2. Excluding the 50 square mile surface area of Lake Norman, the drainage area between Lookout Shoals and Cowans Ford Dams is 250 square miles. By using the latent heat of vaporization, the percentage of heat lost by evaporation may be calculated as follows:

		Period (Consecutive Days)		
		120	183	274
3.	Marshall Steam Station $\frac{2300 \times 18^{\circ}\text{F} \times .80 \times .56 (\text{btu} / \text{lb})}{1050 (\text{btu} / \text{lb})} = 17 \text{ cfs}$			
	McGuire Nuclear Station $\frac{(4500 \times 16)^{\circ}\text{F} \times .80 \times .56 (\text{btu} / \text{lb})}{1050 (\text{btu} / \text{lb})} = 31 \text{ cfs}$			
4.	FPC License for Catawba-Wateree Project No. 2232, requires the following minimum average daily releases: 278 – Below Lookout Shoals 311 – Below Cowans Ford			
5.	Based on full pond area of 32,510 acres			
6.	Values for the lowest average flow for the period of record and consecutive days for the South Fork of the Catawba River, an uncontrolled tributary of the Catawba. Values estimated to be 1/3 times the gauge value and applicable to the entire drainage area between Lookout Shoals and Cowans Ford.			

Table 2-25. McGuire Nuclear Station Groundwater Level Monitors

Location	Interior/Exterior	Unit	Level Limit (MSL)
Chapter 16 SLC Monitors			
Auxiliary Building PP-51	Interior	1 & 2	731 ft
Auxiliary Building QQ-56	Interior	1 & 2	731 ft
Auxiliary Building PP-61	Interior	1 & 2	731 ft
Auxiliary Building West Wall	Exterior	1 & 2	731 ft
Auxiliary Building East Wall	Exterior	1 & 2	731 ft
Deleted per 2003 Update			
Reactor Building West Wall	Exterior	1	731 ft
Diesel Generator Building AA-40	Interior	1	739 ft 2 in
Diesel Generator Building DD-42	Interior	1	739 ft 2 in
Reactor Building East Wall	Exterior	2	736 ft
Diesel Generator Building BB-72	Interior	2	739 ft 2 in
Diesel Generator Building DD-69	Interior	2	739 ft 2 in

**Table 2-26. Population Center Distances Within A 100 Mile Radius
[HISTORICAL INFORMATION NOT REQUIRED TO BE REVISED]**

Population Center	Population (1990)
Charlotte	395,934
Rock Hill	41,610
Gastonia	54,725
Hickory	28,301
Kannapolis/Concord	57,043
High Point	69,424
Winston-Salem	143,485
Spartanburg	43,479
Greenville	58,256
Columbia	103,477
W. Columbia	10,944
St. Andrews	25,692
Asheville	61,855
Johnson City	49,479
Greensboro	183,894
Burlington	39,498

Note:

1. Source: 1990 Census of Population

Table 2-27. Population of Counties Within a 50 Mile Radius [HISTORICAL INFORMATION NOT REQUIRED TO BE REVISED]

	1990 ⁴	County Population ³ Within 50 Mile Radius 1990
NORTH CAROLINA		
Alexander	27,544	27,544
Anson	23,474	3,134
Burke	75,744	65,140
Cabarrus	98,935	98,935
Caldwell	70,709	62,224
Catawba	118,412	118,412
Cleveland	84,714	84,714
Davidson	126,677	54,471
Davie	27,859	27,580
Forsyth	265,878	1,064
Gaston	175,093	175,093
Iredell	92,935	92,935
Lincoln	50,319	50,319
Mecklenburg	511,481	511,481
Montgomery	23,352	93
Rowan	110,605	110,605
Rutherford	56,918	13,091
Stanly	51,765	50,730
Union	84,210	81,684
Wilkes	59,393	11,285
Yadkin	30,488	7,012
Total N.C.		1,647,546
SOUTH CAROLINA		
Cherokee	44,506	37,385
Chester	32,170	7,077
Chesterfield	36,575	366
Lancaster	54,516	18,535
York	131,497	131,234

	County Population ³ Within 50 Mile Radius	
	1990 ⁴	1990
Total S.C.		194,597

Note:

1. For references 3 and 4 see [Figure 2-7](#).

Table 2-28. Milk Cows Within a 50 Mile Radius (See Note 1)

County	1993 Number
Alexander	3,550
Anson	
Burke	
Cabarrus	750
Caldwell	
Catawba	1,800
Cleveland	700
Davidson	2,500
Davie	2,000
Forsyth	500
Gaston	2,650
Iredell	10,800
Lincoln	2,600
Mecklenburg	2,200
Montgomery	500
Rowan	4,400
Rutherford	400
Stanly	1,600
Union	650
Wilkes	1,000
Yadkin	3,000

Note :

1. North Carolina Agricultural Statistics

Table 2-29. Dairy Farms Within A 5 Mile Radius

Farm¹	Distance From McGuire	Direction From Plant
William Cook	2.5 Miles	E
E. H. & Henry Cook	2.75 Miles	ESE
James Cook	3.5 Miles	E
Note:		
1. 1993 Data		