changes. In addition to drift emissions, there is another potential impact of the cooling towers to the environment: the warm saturated air leaving the towers is cooled by the ambient air such that the water vapor condenses into a visible plume that may persist for some distance downwind depending on meteorological conditions (e.g., wind speed, relative humidity). These visible plume occurrences may pose some aesthetic and ground shadowing impacts. Under relatively high wind speeds and humid conditions, the aerodynamic wake turbulence may result in the visible plume touching down causing ground level fogging and, under freezing conditions, icing.

The meteorological data used in the plume analysis is a hybrid of various data sources, but the impact of merging these sources is assumed to be insignificant compared to the inherent uncertainties of predicting future meteorological conditions. The wind speeds and direction are taken from the site meteorology tower for the years 2001-2006: the temperature, humidity, and cloud cover data are from the national weather station at Mineral Wells located 37 mi to the northwest, and the mixing height data is from the airport at Stephenville, 20 mi to the southwest. The topography within 37 mi indicates no major terrain changes that would cause any of these locations to have a different microclimate from the other two. The general site is approximately 822 ft elevation, while Mineral Wells is at 930 ft and Stephenville is 1321 ft with no intervening hills or valleys.

An analysis of the potential environmental impacts caused by the operation of LMDCTs was conducted using the Electric Power Research Institute (EPRI) sponsored Seasonal/Annual Cooling Tower Impact (SACTI) Program. This model is considered a state-of-the-art cooling tower impact model by EPRI and the nuclear industry. It was developed by Argonne National Laboratory (ANL) using the knowledge obtained from extensive research conducted on cooling tower environmental effects. The SACTI model provides salt drift deposition pattern (i.e., kg/km^2 ~~per~~ /month) as a function of distance and direction from the cooling towers as well as the frequency of occurrence of visible plumes, hours of plume shadowing, and ground level fogging and icing occurrences by season resulting from the operation of the cooling towers. The circulating water total dissolved solids of ~~4000~~8402 mg/l (based on an average input TDS of ~~1680~~3525 mg/l and cooling tower operation at 2.4 cycles of concentration) is the expected long term average condition for Lake Granbury.

RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4

The SACTI results, as presented in Table 2.3-319, indicate that the longest and largest visible plumes occur in the winter, with smaller plumes occurring in the spring and fall seasons, due to the cold air in winter causing condensation of the moist plumes more readily than in the warmer seasons (i.e., cold air has a much smaller capacity of holding water vapor). The summer visible plumes are noticeably smaller because warmer ambient air results in less condensation of the moist plumes due to its ability to accommodate higher water vapor concentrations.

The largest visible plumes shown in Table 2.3-319 reach a distance of ~~6710~~6210 meters (~~4.17~~3.86 mi) downwind of the towers. The frequency of seasonal plume length by compass direction are given in Tables 2.3-320 through 2.3-323. It should

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

be noted that the longest plumes occur during conditions of high ambient relative humidity that are conducive to natural fog formation and poor visibility. Under these conditions, the atmosphere is already at, or close to, saturation. Therefore, the largest plumes may not be discernible from the ambient fogging conditions. Figure 2.3-372 provides the seasonal variation of plume length as a function of compass direction.

Table 2.3-324 provides the hours of plume shadowing by downwind distances and direction. Consistent with the visible plume frequency results, most shadowing occurs in the winter season with lesser amounts in the spring and fall and the least amounts in the summer. The annual hours of plume shadowing are given in Figure 2.3-379. The SACTI output also shows that ground level fogging occurs mainly to the north and south directions (Table 2.3-325). Figure 2.3-377 provides the hours of fogging as a function of distance and direction. The pattern of ground level icing is similar to the pattern of fogging, as shown in Table 2.3-326 and Figure 2.3-378. Most ground icing occurs within a half mi of the site except in the south and north directions.

The salt deposition pattern shown in Table 2.3-327 indicates that there is negligible salt deposition at a distance of ~~one quarter of a mi~~1.5 miles from the site with the highest amount being ~~approximately 1.83~~2.91 kg/km^2/month. The salt deposition rate is shown in Figure 2.3-373.~~ The salt deposition amounts are below 1 kg/km^2/month in all directions at 1000 meters from the site.~~ The maximum salt deposition amount of ~~55.8~~137.3 kg/km^2/month at 100 meters from the site can be compared with a value of 400 kg/km^2/month below which damage to vegetation is not expected to occur according to a study of the environmental effects of cooling towers. Salt deposition as a function of distance and direction is shown on Figure 2.3-373. SCR is adjacent to the cooling towers and is likely to receive cooling tower drift that would add to TDS of the reservoir. However, TDS measured in SCR in 2007 exceeded 2600 mg/L at all sampling locations across all seasons, which is likely due to the reservoir acting as the UHS for two once through units. Increases in SCR TDS measurements due to cooling tower drift are anticipated to be negligible. In addition, according to NUREG-1555, general guidelines for predicting effects of drift deposition on plants suggest that many species have thresholds for visible leaf damage in the range of 10 to 20 kg/ha/mo of NaCl deposited on leaves during the growing season. This range of deposition corresponds to 1000 to 2000 kg/km^2/month. Therefore, no impacts on vegetation outside the site boundary are expected.

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01
RCOL2_02.03.02-4

The deposition patterns for chlorides and total dissolved solids are shown in Table 2.3-328 and Table 2.3-329. These results are illustrated in Figures 2.3-374 and 2.3-375, which show that the deposition is minimal at the site boundary.

The maximum predicted water deposition rate is ~~7.8~~4.9 x 10^4 kg/km^2/month at a downwind distance of 100 meters from the cooling towers (Table 2.3-330). The water deposition rate is shown in Figure 2.3-376. This deposition rate is the rainfall equivalent of ~~0.003~~0.002 ~~in~~inches per month based on the density of water

RCOL2_02.03.02-4 S01
RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

Table 2.3-319
Cooling Tower Visible Plume Length by Season

CP COL 2.3(1)

(Length in meters)

	Winter	Spring	Summer	Fall	Annual
Plume from LMDCT moving in the indicated direction					
S	~~6380~~6060	~~4080~~3660	~~2630~~2210	~~3930~~3540	~~4740~~4360
SSW	~~6090~~5590	~~3470~~2950	~~1960~~1670	~~3020~~2730	~~3620~~3210
SW	~~5060~~6210	~~2050~~3000	~~950~~1400	~~1980~~2500	~~2240~~2990
WSW	~~4980~~5830	~~2670~~3590	~~880~~1160	~~2360~~2770	~~2370~~2930
W	~~6680~~6140	~~3900~~3430	~~1440~~1170	~~4020~~3730	~~3740~~3360
WNW	~~6710~~6140	~~3420~~3100	~~1660~~1460	~~3000~~2630	~~3400~~3050
NW	~~6590~~6120	~~3480~~3130	~~1910~~1720	~~3120~~2840	~~3440~~3130
NNW	~~5420~~4970	~~2620~~2360	~~1250~~1060	~~2690~~2390	~~2690~~2410
N	~~4580~~4140	~~2390~~2090	~~1100~~930	~~2640~~2260	~~2500~~2190
NNE	~~4140~~3700	~~2690~~2300	~~1400~~1040	~~3300~~2690	~~2880~~2420
NE	~~2920~~4070	~~2430~~3140	~~960~~1490	~~3210~~4210	~~2390~~3260
ENE	~~4060~~4960	~~3050~~3880	~~1400~~2040	~~4080~~4960	~~3390~~4220
E	~~5340~~4900	~~3340~~3000	~~2550~~2060	~~4640~~3970	~~4250~~3770
ESE	~~5890~~5440	~~4240~~3820	~~3430~~2910	~~5250~~4630	~~5110~~4600
SE	~~5010~~4620	~~3810~~3400	~~2610~~2260	~~4390~~3940	~~4430~~4020
SSE	~~5180~~4910	~~3450~~3190	~~2150~~1860	~~3920~~3690	~~4210~~3960
All	~~5290~~5050	~~2980~~2780	~~1470~~1330	~~3280~~3050	~~3250~~3050

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

Average Plume Lengths in Mi

	Winter	Spring	Summer	Fall	Annual
Plume from LMDCT moving in the indicated direction					
S	~~3.96~~3.77	~~2.54~~2.27	~~1.63~~1.37	~~2.44~~2.2	~~2.95~~2.71
SSW	~~3.78~~3.47	~~2.16~~1.83	~~1.22~~1.04	~~1.88~~1.7	~~2.25~~1.99
SW	~~3.14~~3.86	~~1.27~~1.86	~~0.59~~0.87	~~1.23~~1.55	~~1.39~~1.86
WSW	~~3.09~~3.62	~~1.66~~2.23	~~0.55~~0.72	~~1.47~~1.72	~~1.47~~1.82
W	~~4.15~~3.82	~~2.42~~2.13	~~0.89~~0.73	~~2.5~~2.32	~~2.32~~2.09
WNW	~~4.17~~3.82	~~2.13~~1.93	~~1.03~~0.91	~~1.86~~1.63	~~2.11~~1.9
NW	~~4.09~~3.8	~~2.16~~1.94	~~1.19~~1.07	~~1.94~~1.76	~~2.14~~1.94
NNW	~~3.37~~3.09	~~1.63~~1.47	~~0.78~~0.66	~~1.67~~1.49	~~1.67~~1.5
N	~~2.85~~2.57	~~1.49~~1.3	~~0.68~~0.58	~~1.64~~1.4	~~1.55~~1.36
NNE	~~2.57~~2.3	~~1.67~~1.43	~~0.87~~0.65	~~2.05~~1.67	~~1.79~~1.5
NE	~~1.81~~2.53	~~1.51~~1.95	~~0.6~~0.93	~~1.99~~2.62	~~1.49~~2.03
ENE	~~2.52~~3.08	~~1.9~~2.41	~~0.87~~1.27	~~2.54~~3.08	~~2.11~~2.62
E	~~3.32~~3.04	~~2.08~~1.86	~~1.58~~1.28	~~2.88~~2.47	~~2.64~~2.34
ESE	~~3.66~~3.38	~~2.63~~2.37	~~2.13~~1.81	~~3.26~~2.88	~~3.18~~2.86
SE	~~3.11~~2.87	~~2.37~~2.11	~~1.62~~1.4	~~2.73~~2.45	~~2.75~~2.5
SSE	~~3.22~~3.05	~~2.14~~1.98	~~1.34~~1.16	~~2.44~~2.29	~~2.62~~2.46
All	~~3.29~~3.14	~~1.85~~1.73	~~0.91~~0.83	~~2.04~~1.9	~~2.02~~1.9

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

Table 2.3-320
Winter Plume Percent Frequency by Length and Direction

CP COL 2.3(1)

	(0 - <500 m (0 to 1/3 mi)	500 - <1000 m (1/3 - 2/3 mi)	1000 - <8000 m (2/3 - 5 mi)	8000 m and longer (>5 mi)	Total Freq
Plume from LMDCT moving in the indicated direction					
S	2.46	~~0~~0.4	~~2.13~~1.73	4.6	9.19
SSW	0.97	~~0~~0.21	~~1.01~~0.8	1.5	3.48
SW	~~0.49~~0.32	~~0.41~~0.17	~~0.22~~0.59	~~0.8~~0.84	1.92
WSW	~~0.45~~0.27	~~0.24~~0.18	~~0.14~~0.34	~~0.61~~0.65	1.44
W	0.7	~~0~~0.19	~~0.95~~0.76	1.59	3.24
WNW	0.83	~~0~~0.27	~~1.3~~1.03	1.98	4.11
NW	1.3	~~0.29~~1.47	~~2.34~~1.53	~~4.36~~3.99	8.29
NNW	3.41	~~0.35~~1.71	~~2.68~~1.88	~~4.7~~4.14	11.14
N	7.47	~~0~~0.94	~~3.82~~2.88	5.12	16.41
NNE	2.73	~~0~~0.45	~~1.64~~1.19	1.42	5.79
NE	~~1.98~~1.73	~~0.89~~0.25	~~0.74~~1.43	~~0.67~~0.87	4.28
ENE	~~1.79~~1.45	~~0.72~~0.34	~~0.79~~1.31	~~1.26~~1.46	4.56
E	1.09	~~0~~0.29	~~1.07~~0.78	1.14	3.3
ESE	1.42	~~0~~0.28	~~1.38~~1.1	1.95	4.75
SE	2.64	~~0.35~~1.24	~~1.92~~1.34	~~2.92~~2.61	7.83
SSE	3.62	~~0.23~~0.97	~~1.59~~1.14	~~4.17~~3.88	9.61
All	~~33.4~~32.4	~~3.5~~9.4	~~23.7~~19.8	~~38.8~~37.7	99.35

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

Table 2.3-321
Spring Plume Percent Frequency by Length and Direction

CP COL 2.3(1)

	(0 - <500 m (0 to 1/3 mi)	500 - <1000 m (1/3 - 2/3 mi)	1000 - <8000 m (2/3 - 5 mi)	8000 m and longer (>5 mi)	Total Freq
Plume from LMDCT moving in the indicated direction					
S	2.93	~~0~~0.31	~~1.44~~1.13	1.47	5.84
SSW	2.53	~~0~~0.32	~~1.1~~0.78	0.87	4.5
SW	~~2~~1.8	~~0.65~~0.2	~~0.34~~0.94	~~0.4~~0.45	3.39
WSW	~~1.3~~1.13	~~0.51~~0.17	~~0.25~~0.72	~~0.46~~0.5	2.52
W	2.15	~~0~~0.28	~~1~~0.72	1	4.15
WNW	2.69	~~0~~0.23	~~0.93~~0.7	1.01	4.63
NW	4.69	~~0.37~~1.42	~~2.13~~1.49	~~2.16~~1.75	9.35
NNW	11.64	~~0.39~~1.91	~~2.85~~1.88	~~3.23~~2.68	18.11
N	17.52	~~0~~0.97	~~3.76~~2.79	3.37	24.65
NNE	2.61	~~0~~0.21	~~0.81~~0.6	0.53	3.95
NE	~~1.85~~1.66	~~0.35~~0.19	~~0.43~~0.66	~~0.4~~0.52	3.03
ENE	~~1.22~~1.12	~~0.37~~0.1	~~0.35~~0.65	~~0.46~~0.53	2.4
E	1.22	~~0~~0.12	~~0.5~~0.38	0.38	2.1
ESE	1.03	~~0~~0.14	~~0.55~~0.41	0.58	2.16
SE	1.65	~~0.11~~0.59	~~0.81~~0.45	~~0.96~~0.84	3.53
SSE	2.92	~~0.09~~0.54	~~1~~0.68	~~1.28~~1.15	5.29
All	~~60.0~~59.3	~~2.8~~7.7	~~18.3~~15.0	~~18.6~~17.7	99.62

RCOL2_02.03.-2-4
RCOL2_02.03.02-4 S01

Table 2.3-322
Summer Plume Percent Frequency by Length and Direction

CP COL 2.3(1)

	(0 - <500 m (0 to 1/3 mi)	500 - <1000 m (1/3 - 2/3 mi)	1000 - <8000 m (2/3 - 5 mi)	8000 m and longer (>5 mi)	Total Freq
Plume from LMDCT moving in the indicated direction					
S	1.82	~~0~~0.12	~~0.51~~0.39	0.37	2.7
SSW	2.41	~~0~~0.18	~~0.46~~0.28	0.33	3.2
SW	~~2.5~~2.32	~~0.25~~0.18	~~0.08~~0.3	~~0.19~~0.22	3.02
WSW	~~2.52~~2.43	~~0.18~~0.09	~~0.08~~0.25	~~0.17~~0.18	2.95
W	4.15	~~0~~0.26	~~0.62~~0.36	0.32	5.09
WNW	5.3	~~0~~0.24	~~0.83~~0.59	0.56	6.69
NW	10.59	~~0.33~~1.42	~~2.17~~1.38	~~1.61~~1.31	14.7
NNW	15.96	~~0.45~~1.72	~~2.13~~1.07	~~1.18~~0.97	19.72
N	20.73	~~0~~0.73	~~1.98~~1.25	1.17	23.88
NNE	4.84	~~0~~0.33	~~0.83~~0.5	0.28	5.95
NE	~~2.84~~2.55	~~0.47~~0.29	~~0.23~~0.67	~~0.13~~0.16	3.67
ENE	~~1.57~~1.38	~~0.29~~0.19	~~0.19~~0.44	~~0.14~~0.18	2.19
E	1.04	~~0~~0.11	~~0.4~~0.29	0.15	1.59
ESE	0.75	~~0~~0.1	~~0.38~~0.28	0.24	1.37
SE	0.75	~~0.04~~0.19	~~0.29~~0.17	~~0.18~~0.15	1.26
SSE	1.21	~~0.04~~0.16	~~0.24~~0.2	~~0.24~~0.16	1.73
All	~~79.0~~78.2	~~2.0~~6.3	~~11.4~~8.4	~~7.2~~6.7	99.71

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

Table 2.3-323
Fall Plume Percent Frequency by Length and Direction

CP COL 2.3(1)

	(0 - <500 m (0 to 1/3 mi)	500 - <1000 m (1/3 - 2/3 mi)	1000 - <8000 m (2/3 - 5 mi)	8000 m and longer (>5 mi)	Total Freq
Plume from LMDCT moving in the indicated direction					
S	3.73	~~0~~0.41	~~1.51~~1.1	1.83	7.07
SSW	2.82	~~0~~0.2	~~0.64~~0.44	0.91	4.37
SW	~~2.14~~1.91	~~0.31~~0.23	~~0.19~~0.47	~~0.44~~0.47	3.08
WSW	~~1.95~~1.84	~~0.18~~0.11	~~0.18~~0.33	~~0.52~~0.55	2.83
W	~~2.91~~2.91	~~0~~0.31	~~0.97~~0.66	1.65	5.53
WNW	3.38	~~0~~0.3	~~0.89~~0.59	1.06	5.33
NW	6.83	~~0.35~~1.5	~~2.26~~1.35	~~2.54~~2.3	11.98
NNW	8.37	~~0.49~~1.83	~~2.64~~1.59	~~2.26~~1.97	13.76
N	11.03	~~0~~0.87	~~3.11~~2.24	2.31	16.45
NNE	2.87	~~0~~0.48	~~1.46~~0.98	0.8	5.13
NE	~~1.72~~1.53	~~0.63~~0.19	~~0.52~~1.02	~~0.76~~0.89	3.63
ENE	~~1.2~~1.01	~~0.47~~0.19	~~0.37~~0.74	~~0.93~~1.03	2.97
E	0.99	~~0~~0.26	~~0.85~~0.59	0.66	2.5
ESE	1.15	~~0~~0.27	~~0.95~~0.68	1.16	3.26
SE	1.99	~~0.19~~0.68	~~1.17~~0.88	~~1.42~~1.22	4.77
SSE	3.3	~~0.15~~0.58	~~0.85~~0.69	~~2.08~~1.81	6.38
All	~~56.4~~55.7	~~2.8~~8.4	~~18.6~~14.4	~~21.3~~20.6	99.03

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

Table 2.3-324 (Sheet 1 of 4)
Annual Hours/Yr of Plume Shadow

CP COL 2.3(1)

Directions are directions from the tower.

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
0.25	400	~~2037.8~~ 2028	~~2271.1~~ 2437	~~2897.1~~ 3125	~~3825.1~~ 4075	~~4616.9~~ 5017	~~4171.6~~ 4273	~~3598.3~~ 3678	~~3186.5~~ 3262	~~3036.8~~ 3107	~~3109.5~~ 3166	~~3782~~3 889	~~4279.2~~ 4534	~~3424.3~~ 3584	~~2424.5~~ 2464	~~1952.8~~ 1964	~~1915.9~~ 1895
0.37	600	~~1501.2~~ 1392	~~1511.8~~ 1436	~~1612.4~~ 1723	~~2233.5~~ 2385	~~2864.5~~ 2986	~~2790~~2 827	~~2733.7~~ 2592	~~2534.9~~ 2329	~~2208.9~~ 2037	~~1968.6~~ 1840	~~2026.1~~ 1938	~~2180.6~~ 2329	~~1979.3~~ 1981	~~1652.6~~ 1600	~~1500.5~~ 1400	~~1539.3~~ 1422
0.5	800	~~1221~~ 1096	~~1122.5~~ 994	~~1107.3~~ 1137	~~1611.9~~ 1681	~~1977.3~~ 2096	~~2306.2~~ 2184	~~2260.2~~ 2100	~~2041.8~~ 1861	~~1686~~ 1495	~~1424.9~~ 1289	~~1284.1~~ 1277	~~1523.8~~ 1541	~~1312.1~~ 1311	~~1243.7~~ 1185	~~1222.4~~ 1131	~~1231.2~~ 1128
0.62	1000	~~1077.4~~ 950	~~952~~ 832	~~871.5~~ 848	~~1267~~ 1340	~~1593.5~~ 1601	~~1968.6~~ 1810	~~1967.9~~ 1783	~~1725.1~~ 1537	~~1421.6~~ 1240	~~1112.5~~ 1013	~~971.2~~ 945	~~1149.1~~ 1167	~~995.4~~ 972	~~976.9~~ 945	~~1002.2~~ 918	~~1085.5~~ 994
0.75	1200	~~924.7~~ 822	~~831.4~~ 744	~~736.5~~ 706	~~1047.7~~ 1110	~~1328~~ 1286	~~1687.6~~ 1562	~~1755.7~~ 1573	~~1486~~ 1337	~~1247.3~~ 1085	~~910.8~~ 838	~~717.1~~ 724	~~845~~ 898	~~766.7~~ 754	~~835.9~~ 819	~~854.2~~ 768	~~962.4~~ 881
0.87	1400	~~777.9~~ 703	~~679.2~~ 604	~~637.3~~ 590	~~889.1~~ 939	~~1139.7~~ 1087	~~1469.6~~ 1323	~~1581.9~~ 1377	~~1307.5~~ 1139	~~1080.7~~ 956	~~745~~ 685	~~568.5~~ 557	~~654.8~~ 668	~~620.3~~ 608	~~721.1~~ 690	~~713.8~~ 651	~~834.4~~ 758
0.99	1600	~~616.8~~ 546	~~585.9~~ 527	~~580.6~~ 533	~~793.4~~ 834	~~969.9~~ 894	~~1280.1~~ 1129	~~1446.4~~ 1253	~~1179.1~~ 1016	~~908.9~~ 815	~~604.2~~ 568	~~483.6~~ 470	~~546.2~~ 570	~~488.7~~ 473	~~619.3~~ 605	~~621~~ 561	~~748.4~~ 669
1.12	1800	~~495.9~~ 454	~~515.3~~ 464	~~535.3~~ 490	~~728~~ 757	~~861.7~~ 776	~~1133~~ 1013	~~1338.5~~ 1165	~~1054.8~~ 892	~~782.6~~ 716	~~485.6~~ 461	~~429.7~~ 409	~~474~~ 497	~~410.5~~ 382	~~550.7~~ 521	~~560.3~~ 514	~~688.4~~ 606
1.24	2000	~~437.3~~ 394	~~456.3~~ 404	~~497~~ 457	~~657.2~~ 696	~~740.8~~ 674	~~997.2~~ 896	~~1222.3~~ 1083	~~949.3~~ 809	~~690.9~~ 632	~~404~~ 383	~~376.5~~ 357	~~416.6~~ 436	~~355~~ 342	~~487.7~~ 463	~~500.4~~ 452	~~612.9~~ 534
1.37	2200	~~382.3~~ 341	~~408.1~~ 359	~~464.3~~ 430	~~607.8~~ 624	~~659.6~~ 606	~~906~~ 798	~~1130~~ 1008	~~827.5~~ 733	~~613~~ 561	~~351.3~~ 337	~~320.1~~ 307	~~373~~ 375	~~310.1~~ 298	~~447.4~~ 415	~~458.4~~ 409	~~529.6~~ 469
1.49	2400	~~336.7~~ 304	~~378.3~~ 331	~~436.9~~ 397	~~578~~ 586	~~607.2~~ 555	~~842.5~~ 744	~~1017.6~~ 921	~~749.4~~ 649	~~559.2~~ 504	~~317.2~~ 303	~~275.7~~ 259	~~335~~ 336	~~274.5~~ 257	~~403.2~~ 372	~~388.7~~ 353	~~480~~ 419
1.62	2600	~~307.1~~ 279	~~340.2~~ 304	~~416.5~~ 376	~~538.2~~ 557	~~549.6~~ 512	~~792.2~~ 694	~~947.9~~ 840	~~670.3~~ 580	~~518.6~~ 470	~~294.1~~ 274	~~236.7~~ 224	~~307~~ 304	~~244.2~~ 233	~~363.9~~ 343	~~362.5~~ 320	~~432.4~~ 379

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

Table 2.3-324 (Sheet 2 of 4)
Annual Hours/Yr of Plume Shadow

CP COL 2.3(1)

Directions are directions from the tower.

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
1.74	2800	~~276.9~~ 246	~~320.5~~ 286	~~387.3~~ 349	~~505.7~~ 523	~~518~~ 473	~~735.6~~ 644	~~886.8~~ 775	~~616.1~~ 528	~~486.7~~ 447	~~279.8~~ 260	~~216.6~~ 199	~~274~~ 268	~~227.1~~ 209	~~329~~ 309	~~346.4~~ 306	~~394.2~~ 337
1.86	3000	~~257.5~~ 229	~~298~~ 270	~~362.5~~ 328	~~474.4~~ 487	~~489~~ 439	~~685.6~~ 604	~~818.6~~ 730	~~575.2~~ 500	~~452.8~~ 417	~~268.8~~ 250	~~191.6~~ 174	~~247.5~~ 243	~~209.5~~ 194	~~312.2~~ 289	~~330.6~~ 292	~~355.5~~ 305
1.99	3200	~~246.9~~ 214	~~284.7~~ 253	~~342.4~~ 312	~~452.7~~ 453	~~449.3~~ 411	~~654.6~~ 567	~~778.8~~ 680	~~531.9~~ 470	~~432~~ 386	~~252.6~~ 239	~~175.4~~ 163	~~219.6~~ 222	~~196.4~~ 183	~~285~~ 266	~~313.5~~ 272	~~331.3~~ 285
2.11	3400	~~229.1~~ 204	~~267.6~~ 239	~~327.9~~ 297	~~414.6~~ 411	~~428.5~~ 385	~~617.1~~ 539	~~738.4~~ 643	~~504.9~~ 437	~~411.5~~ 363	~~244.4~~ 232	~~163.3~~ 157	~~199.2~~ 198	~~182.7~~ 170	~~271.8~~ 244	~~294.1~~ 260	~~306.6~~ 269
2.24	3600	~~219.3~~ 192	~~252.8~~ 226	~~318.4~~ 287	~~375.7~~ 375	~~411.1~~ 366	~~573.5~~ 516	~~695.8~~ 606	~~486.7~~ 417	~~388.7~~ 344	~~235.7~~ 225	~~154.6~~ 149	~~183.1~~ 174	~~171.3~~ 161	~~260.5~~ 234	~~279.9~~ 244	~~285.6~~ 254
2.36	3800	~~210.1~~ 186	~~243~~ 214	~~308.6~~ 275	~~339.1~~ 354	~~392.8~~ 354	~~556.7~~ 496	~~653.3~~ 578	~~466.8~~ 404	~~367.8~~ 333	~~227.8~~ 221	~~142.1~~ 139	~~171.5~~ 161	~~159.7~~ 148	~~245~~ 229	~~270.2~~ 234	~~266.7~~ 241
2.49	4000	~~201.2~~ 174	~~228~~ 206	~~301.6~~ 265	~~314.5~~ 329	~~383.1~~ 340	~~542.6~~ 468	~~631.1~~ 544	~~444.7~~ 389	~~347.5~~ 318	~~213.1~~ 214	~~137.6~~ 133	~~157~~ 144	~~152.1~~ 140	~~231.9~~ 221	~~258.5~~ 224	~~257.4~~ 230
2.61	4200	~~191.1~~ 163	~~214.6~~ 193	~~293.6~~ 254	~~298~~ 309	~~377.1~~ 332	~~520.1~~ 450	~~609.7~~ 515	~~416.8~~ 374	~~333.4~~ 304	~~206.9~~ 203	~~132.4~~ 126	~~142.7~~ 131	~~145.4~~ 131	~~222~~ 209	~~246.2~~ 212	~~251.1~~ 219
2.73	4400	~~178.4~~ 153	~~204.2~~ 179	~~283.1~~ 243	~~280.3~~ 289	~~371.3~~ 325	~~495.4~~ 429	~~579.5~~ 498	~~404.4~~ 354	~~323.6~~ 293	~~201.2~~ 196	~~126.5~~ 122	~~128.2~~ 122	~~140.7~~ 128	~~214.6~~ 196	~~238~~ 206	~~242.7~~ 209
2.86	4600	~~166.1~~ 143	~~195.4~~ 170	~~269~~ 237	~~264.6~~ 279	~~361.6~~ 317	~~470.8~~ 412	~~560.8~~ 484	~~389~~ 336	~~317.6~~ 283	~~196~~ 190	~~120.6~~ 118	~~124.2~~ 118	~~139.4~~ 125	~~206.6~~ 190	~~227.8~~ 195	~~236.7~~ 201
2.98	4800	~~152.1~~ 134	~~181.1~~ 155	~~259.6~~ 230	~~257.7~~ 272	~~354.2~~ 310	~~457~~ 394	~~550.2~~ 465	~~374.4~~ 324	~~298~~ 272	~~191.3~~ 186	~~116.1~~ 108	~~114.3~~ 108	~~130~~ 123	~~196.3~~ 181	~~218.9~~ 187	~~220.7~~ 190
3.11	5000	~~144.7~~ 127	~~167.8~~ 148	~~248.3~~ 217	~~251.6~~ 261	~~345.1~~ 304	~~445.4~~ 382	~~533.8~~ 457	~~362.2~~ 313	~~289~~ 266	~~186.5~~ 179	~~110.8~~ 103	~~110.8~~ 100	~~125.4~~ 118	~~188.8~~ 170	~~209.9~~ 176	~~204.4~~ 178

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

Table 2.3-324 (Sheet 3 of 4)
Annual Hours/Yr of Plume Shadow

CP COL 2.3(1)

Directions are directions from the tower.

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
3.23	5200	~~134.5~~ 116	~~158.8~~ 141	~~236.5~~ 209	~~239~~ 247	~~338.2~~ 297	~~427.9~~ 373	~~517.8~~ 445	~~350.5~~ 304	~~280.5~~ 260	~~182.3~~ 177	~~106.2~~ 99	~~102.3~~ 89	~~122.4~~ 113	~~181.9~~ 163	~~196.3~~ 170	~~187.9~~ 170
3.36	5400	~~120~~ 110	~~149.5~~ 133	~~219.6~~ 195	~~227.6~~ 237	~~332.3~~ 294	~~409.8~~ 360	~~500.1~~ 433	~~341.5~~ 296	~~268.3~~ 253	~~174.6~~ 175	~~101.3~~ 97	~~93.3~~ 87	~~118.9~~ 110	~~176.7~~ 156	~~183.8~~ 159	~~176.7~~ 160
3.48	5600	~~114~~ 108	~~141.5~~ 121	~~211.9~~ 189	~~223.8~~ 228	~~324.1~~ 286	~~400.5~~ 347	~~487.3~~ 417	~~328.2~~ 290	~~254.5~~ 243	~~171.6~~ 164	~~100.3~~ 94	~~88.4~~ 83	~~117.8~~ 105	~~172~~ 146	~~179.7~~ 152	~~167.7~~ 152
3.6	5800	~~104.3~~ 95	~~128.7~~ 117	~~198.4~~ 177	~~213.8~~ 222	~~317.5~~ 278	~~375.5~~ 335	~~476.5~~ 412	~~319.2~~ 276	~~249.3~~ 233	~~167.3~~ 158	~~95.7~~ 91	~~86~~ 79	~~116.1~~ 102	~~163.8~~ 141	~~163.7~~ 141	~~155.7~~ 145
3.73	6000	~~98.3~~ 90	~~125.8~~ 113	~~189.9~~ 170	~~206.6~~ 214	~~311.6~~ 273	~~362.2~~ 317	~~460.5~~ 399	~~309.8~~ 270	~~243~~ 221	~~156.6~~ 152	~~92.4~~ 88	~~82.8~~ 75	~~111.9~~ 99	~~158.3~~ 137	~~160.6~~ 133	~~145.7~~ 140
3.85	6200	~~95.3~~ 84	~~115.3~~ 108	~~181.2~~ 156	~~198.4~~ 207	~~309.5~~ 269	~~352.2~~ 311	~~449.7~~ 392	~~300.6~~ 259	~~234.9~~ 210	~~152.1~~ 147	~~90.5~~ 86	~~78.9~~ 71	~~105.2~~ 95	~~155.1~~ 134	~~152.9~~ 131	~~137.9~~ 131
3.98	6400	~~89.3~~ 76	~~111.3~~ 104	~~174.7~~ 148	~~189.3~~ 195	~~307.3~~ 266	~~344.2~~ 296	~~432.5~~ 376	~~295.7~~ 256	~~227.4~~ 197	~~144.5~~ 144	~~86.1~~ 83	~~73.1~~ 68	~~101.5~~ 94	~~150.1~~ 129	~~141.9~~ 126	~~134.9~~ 127
4.1	6600	~~82.3~~ 69	~~101.1~~ 97	~~165.7~~ 145	~~178.2~~ 182	~~302.4~~ 261	~~322.6~~ 283	~~420.9~~ 362	~~286.3~~ 249	~~217.4~~ 192	~~138.7~~ 138	~~83.1~~ 81	~~68.9~~ 65	~~100.5~~ 93	~~145.5~~ 124	~~133.7~~ 117	~~128.9~~ 118
4.23	6800	~~76~~ 62	~~97.9~~ 90	~~162.3~~ 142	~~169.5~~ 175	~~294.9~~ 255	~~315.1~~ 275	~~402.5~~ 352	~~280.3~~ 239	~~211~~ 181	~~135.2~~ 133	~~82.1~~ 77	~~66.5~~ 60	~~99.5~~ 91	~~139.1~~ 121	~~131.7~~ 112	~~121.9~~ 113
4.35	7000	~~67~~ 57	~~92.9~~ 82	~~156.4~~ 135	~~161.8~~ 161	~~289~~ 252	~~309.8~~ 265	~~395.6~~ 343	~~275.2~~ 230	~~201.9~~ 171	~~127.2~~ 127	~~79~~ 74	~~63~~ 55	~~97.9~~ 89	~~134.4~~ 114	~~128.4~~ 108	~~116.9~~ 107
4.47	7200	~~58.9~~ 55	~~90.9~~ 81	~~147.6~~ 133	~~157.4~~ 157	~~287~~ 245	~~301.8~~ 255	~~385.4~~ 330	~~262~~ 219	~~188.4~~ 158	~~121.3~~ 124	~~74.8~~ 72	~~59.9~~ 52	~~93.6~~ 81	~~127.1~~ 108	~~124.4~~ 101	~~114.9~~ 105
4.6	7400	~~53.4~~ 48	~~86.6~~ 79	~~141.2~~ 129	~~150.2~~ 152	~~282.2~~ 241	~~294.5~~ 246	~~368.2~~ 319	~~254.9~~ 216	~~176.1~~ 149	~~115.3~~ 117	~~71.8~~ 66	~~54.9~~ 52	~~92.6~~ 77	~~120.1~~ 102	~~119.8~~ 98	~~105.5~~ 97

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

Table 2.3-324 (Sheet 4 of 4)
Annual Hours/Yr of Plume Shadow

CP COL 2.3(1)

Directions are directions from the tower.

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
4.72	7600	~~44.4~~ 40	~~83.9~~ 71	~~135.1~~ 124	~~146.1~~ 148	~~277.2~~ 239	~~287.3~~ 243	~~360~~ 301	~~246~~ 208	~~168.7~~ 142	~~110.3~~ 108	~~68.7~~ 65	~~52.5~~ 50	~~87.7~~ 76	~~113.7~~ 99	~~109.6~~ 90	~~97.2~~ 89
4.85	7800	~~39.4~~ 33	~~70.8~~ 60	~~128.9~~ 118	~~138.9~~ 141	~~275.2~~ 237	~~275.7~~ 234	~~343~~ 291	~~236.6~~ 203	~~158.6~~ 133	~~106.3~~ 99	~~65.1~~ 62	~~49.7~~ 45	~~85.8~~ 76	~~111.9~~ 98	~~106.7~~ 87	~~91.2~~ 85
4.97	8000	~~35.4~~ 31	~~60~~ 50	~~118.4~~ 110	~~134~~ 138	~~270.6~~ 234	~~266.5~~ 229	~~333.1~~ 275	~~225.4~~ 188	~~151.4~~ 121	~~101.8~~ 93	~~62.8~~ 59	~~48.6~~ 43	~~79.9~~ 70	~~110.9~~ 95	~~99.8~~ 82	~~81.2~~ 76

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

Table 2.3-325 (Sheet 1 of 2)
Annual Hours/Yr of Fogging

CP COL 2.3(1)

Directions are directions from the tower.

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
0.06	100	9822	57.2 1.1	14.8 6.5	41.1	4.90.4	62.8	1124.3	47.8 49.7	89.5 6.5	60.3 1.6	19.6 9.8	5.12.8	2.60.0	5.48.8	7.1 82.6	45.2 152.7
0.12	200	92.7 90.8	73.9 31.4	21.6 7.4	5.32.2	5.72.0	6.85.9	1531	68.2 94.5	96.9 76.7	77.9 30.6	27.5 10.2	7.34.4	3.81.4	511.2	22.9 137.5	106.3 290.1
0.19	300	86.3 61.2	35.4 11.0	13.6 5.9	0.52.1	2.51.0	6.33.1	1.5 24.1	24.4 77.4	90.3 53.0	35.1 11.4	198.9	4.24.3	1.50.5	53.5	10.3 129.4	56.1 350.3
0.25	400	128.5 45.1	44.1 5.2	7.34.4	0.41.0	2.11.0	12.4 0.7	1.1 12.4	1950.9	157.4 26.6	425.7	9.76.3	3.62.5	10.4	82.3	12.3 100.6	60.1 313.4
0.31	500	103.7 90.0	28 9.4	0.44.1	0.31.0	1.9	9.12.3	00.0	7.4 15.4	119.4 60.9	22.5 8.2	0.36.3	2.42.5	0.50.4	6.44.8	1137.4	53.6 157.9
0.37	600	83.3 60.8	22.6 4.1	0.34.1	0.30.5	1.7	6.30.7	1.80.0	11.8 7.6	87.3 27.3	163.3	0.36.3	1.61.7	0.50.3	52.5	16.9 13.8	63.9 63.5
0.43	700	77.3 50.5	18.4 2.0	0.34.0	0.20.0	1.5	5.40.0	00.0	44.1	76.4 19.0	13.8 1.0	0.26.3	1.51.0	0.40.3	4.62.0	4.1 2.0	23.3 17.4
0.5	800	61.1 42.3	7.22.0	0.14.0	00.0	1.1	30.0	00.0	1.31.0	49.5 19.0	7.21.0	06.3	0.91.0	0.10.3	3.52.0	1.20.2	6.32.8
0.56	900	60.6 33.7	7.21.6	0.14.0	00.0	10.7	30.0	00.0	1.20.0	49.5 16.3	7.21.0	06.0	0.51.0	0.10.0	3.52.0	0.10.0	1.20.0
0.62	1000	48.8 28.5	3.81.5	02.0	00.0	10.5	1.50.0	00.0	0.70.0	29.4 15.5	3.91.0	03.0	0.51.0	00.0	2.72.0	00.0	0.70.0
0.68	1100	3827.9	11.1	02.0	00.0	10.5	00.0	00.0	00.0	1212.8	11.0	03.0	0.51.0	00.0	22.0	00.0	00.0
0.75	1200	3820.5	11.0	02.0	00.0	10.5	00.0	00.0	00.0	127.5	10.5	03.0	0.51.0	00.0	21.5	00.0	00.0
0.81	1300	3820.5	11.0	00.0	00.0	10.5	00.0	00.0	00.0	127.5	10.5	00.0	0.51.0	00.0	21.5	00.0	00.0

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

Table 2.3-325 (Sheet 2 of 2)
Annual Hours/Yr of Fogging

CP COL 2.3(1)

Directions are directions from the tower.

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
0.87	1400	~~37.6~~ 20.5	~~1~~1.0	~~0~~0.0	~~0~~0.0	~~1~~0.5	~~0~~0.0	~~0~~0.0	~~0~~0.0	~~12~~7.5	~~1~~0.5	~~0~~0.0	~~0.5~~1.0	~~0~~0.0	~~2~~1.5	~~0~~0.0	~~0~~0.0
0.93	1500	~~29.9~~ 19.4	~~1~~0.6	~~0~~0.0	~~0~~0.0	~~0.6~~0.5	~~0~~0.0	~~0~~0.0	~~0~~0.0	~~12~~6.4	~~1~~0.5	~~0~~0.0	~~0.5~~1.0	~~0~~0.0	~~2~~1.1	~~0~~0.0	~~0~~0.0
0.99	1600	~~22.8~~ 19	~~0.9~~0.5	~~0~~0.0	~~0~~0.0	~~0.4~~0.5	~~0~~0.0	~~0~~0.0	~~0~~0.0	~~10.5~~ 6.0	~~0.9~~0.5	~~0~~0.0	~~0.5~~0.6	~~0~~0.0	~~1.7~~1.0	~~0~~0.0	~~0~~0.0

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

Table 2.3-326 (Sheet 1 of 2)
Annual Hours/Yr of RIME Icing

CP COL 2.3(1)

Directions are directions from the tower.

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
0.06	100	64.3 9	41.9 1.1	14.2 6.5	3.4 1.1	3.6 0	5.4 2.8	11 24.2	45.3 45.2	80.6 6.4	57.7 1.6	19.6 9.8	5.1 2.8	2.3 0	4 7.5	6.8 57.2	32 77.2
0.12	200	66.5 52.7	54.1 21.6	19.7 7	4.6 1.9	4.7 1.2	6 5.6	14.9 30.6	62.2 84.5	86.8 66.9	73.4 28.5	27.5 10.2	7.3 4.4	3.3 1.2	4 5.2	10 80.4	49.8 133.2
0.19	300	60.8 36	25.7 7.5	13.1 5.7	0.2 2	1.5 0	6 3	1.5 24.1	20.8 63.4	80.3 43	32.6 10	19 8.9	4.2 4.3	1.3 0.4	4 2.5	1.5 67.2	19 125
0.25	400	103 19.7	33.5 2.2	6.8 4	0 1	1.1 0	12 0.7	1.1 12.4	15 38.2	147.4 16.6	39.5 3.8	9.7 6.3	3.6 2.5	0.8 0.3	7 1.3	0.9 36.4	13 84.8
0.31	500	78.3 42.9	19.9 5.2	0 4	0 1	0	8.8 2.3	0	3.8 7.1	109.4 42.1	20.9 7.9	0.3 6.3	2.4 2.5	0.3 0.3	5.4 2.9	0.8 2.4	11.1 27.4
0.37	600	58 20.5	14.8 1.8	0 4	0 0.5	0	6 0.7	1.8 0	8.3 2.6	77.3 16.9	15.3 3.1	0.3 6.3	1.6 1.7	0.3	4 1.3	5.8 0.9	17.2 10
0.43	700	52.3 15.5	12.2 0	0 4	0	0	5.2 0	0	1.7 1.5	68.2 9	13.1 1	0.2 6.3	1.5 1	0.2 0.3	3.6 1	0.2 0.5	3.2 5.5
0.5	800	36.5 15	5.5 0	0 4	0	0	3 0	0	0 0	43 9	7 1	0 6.3	0.9 1	0 0.3	2.5 1	0	0.2 0.4
0.56	900	36.5 14.5	5.5 0	0 4	0	0	3 0	0	0 0	43 9	7 1	0 6	0.5 1	0	2.5 1	0	0
0.62	1000	25.5 14.5	2.7 0	0 2	0	0	1.5 0	0	0	25.6 9	3.9 1	0 3	0.5 1	0	1.7 1	0	0
0.68	1100	15 14.5	0	0 2	0	0	0	0	0	9 9	1	0 3	0.5 1	0	1	0	0
0.75	1200	15 7.5	0	0 2	0	0	0	0	0	9 4.5	1 0.5	0 3	0.5 1	0	1 0.5	0	0
0.81	1300	15 7.5	0	0	0	0	0	0	0	9 4.5	1 0.5	0	0.5 1	0	1 0.5	0	0

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

Table 2.3-326 (Sheet 2 of 2)
Annual Hours/Yr of RIME Icing

CP COL 2.3(1)

Directions are directions from the tower.

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
0.87	1400	~~14.6~~ 7.5	0	0	0	0	0	0	0	~~9~~4.5	~~1~~0.5	0	~~0.5~~1	0	~~1~~0.5	0	0
0.93	1500	~~14.5~~ 7.5	0	0	0	0	0	0	0	~~9~~4.5	~~1~~0.5	0	~~0.5~~1	0	~~1~~0.5	0	0
0.99	1600	~~12.7~~ 7.5	0	0	0	0	0	0	0	~~7.8~~4.5	~~0.9~~0.5	0	~~0.5~~0.6	0	~~0.9~~0.5	0	0

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

Table 2.3-327 (Sheet 1 of 3)
Cooling Tower Salt Deposition Rate

RCOL2_02.03.02-2 RCOL2_02.03.02-4 S01

CP COL 2.3(1)

Directions are directions to which the plume is headed.

kg/km^2/month

RCOL2_02.03.02-3 RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
0.06	100	24.41	23.80	49.39	41.11	26.96	30.99	66.47	86.01	137.3	30.79	64.35	42.38	10.97	10.24	19.96	31.85
0.12	200	20.60	18.04	28.58	24.38	17.19	20.56	42.02	61.28	127.2	25.41	34.31	23.97	7.70	8.26	14.18	19.06
0.19	300	7.20	5.41	16.70	12.60	3.65	4.94	33.28	52.17	49.19	8.60	22.56	15.76	2.07	2.54	11.45	15.01
0.25	400	6.25	4.69	7.09	5.42	3.26	4.43	25.57	40.43	42.50	7.51	9.34	6.36	1.84	2.21	9.02	11.50
0.31	500	6.28	4.69	0.23	0.17	3.46	4.74	10.67	13.03	42.80	7.61	0.44	0.37	1.79	2.22	4.05	4.65
0.37	600	6.17	4.59	0.15	0.13	3.35	4.57	8.79	10.91	42.08	7.42	0.26	0.22	1.67	2.18	3.19	3.90
0.43	700	5.55	4.12	0.10	0.10	2.97	3.85	5.98	8.05	37.63	6.42	0.17	0.15	1.41	1.98	2.04	2.80
0.5	800	3.77	2.78	0.08	0.07	1.84	2.33	4.55	6.52	24.97	4.25	0.14	0.13	0.97	1.36	1.42	2.02
0.56	900	0.33	0.19	0.07	0.06	0.25	0.28	4.54	6.51	0.76	0.27	0.14	0.13	0.14	0.17	1.42	2.02
0.62	1000	0.31	0.18	0.07	0.06	0.24	0.27	4.58	6.57	0.74	0.26	0.14	0.13	0.14	0.17	1.43	2.03
0.68	1100	0.31	0.18	0.07	0.06	0.24	0.27	5.33	7.62	0.73	0.26	0.14	0.13	0.14	0.17	1.66	2.25
0.75	1200	0.31	0.18	0.07	0.06	0.24	0.27	5.85	8.44	0.73	0.26	0.14	0.13	0.14	0.17	1.87	2.48
0.81	1300	0.31	0.18	0.07	0.06	0.24	0.27	6.04	8.65	0.73	0.26	0.14	0.13	0.14	0.17	1.92	2.53
0.87	1400	0.31	0.18	0.07	0.06	0.24	0.27	6.04	8.65	0.73	0.26	0.14	0.13	0.14	0.17	1.92	2.53
0.93	1500	0.31	0.18	0.07	0.06	0.24	0.27	5.94	8.58	0.73	0.26	0.14	0.13	0.14	0.17	1.90	2.45
0.99	1600	0.31	0.18	0.07	0.06	0.24	0.27	5.75	8.43	0.73	0.26	0.14	0.13	0.14	0.17	1.86	2.27
1.06	1700	0.31	0.18	0.06	0.05	0.24	0.27	5.75	8.43	0.73	0.26	0.12	0.12	0.14	0.17	1.86	2.27
1.12	1800	0.31	0.18	0.05	0.05	0.24	0.27	5.75	8.43	0.73	0.26	0.10	0.10	0.14	0.17	1.86	2.27

Table 2.3-327 (Sheet 2 of 3)
Cooling Tower Salt Deposition Rate

RCOL2_02.03.02-2 RCOL2_02.03.02-4 S01

CP COL 2.3(1)

Directions are directions to which the plume is headed.

kg/km^2/month

RCOL2_02.03.02-3 RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4 RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
1.18	1900	0.31	0.18	0.05	0.04	0.24	0.27	5.75	8.43	0.73	0.26	0.09	0.09	0.14	0.17	1.86	2.27
1.24	2000	0.31	0.18	0.05	0.04	0.24	0.27	5.56	8.18	0.73	0.26	0.09	0.09	0.14	0.17	1.78	2.21
1.3	2100	0.30	0.17	0.04	0.04	0.23	0.25	5.28	7.83	0.71	0.25	0.08	0.08	0.14	0.16	1.68	2.13
1.37	2200	0.27	0.15	0.04	0.03	0.20	0.22	5.10	7.58	0.64	0.23	0.06	0.07	0.13	0.15	1.59	2.05
1.43	2300	0.19	0.10	0.03	0.02	0.12	0.13	4.49	6.62	0.41	0.14	0.05	0.05	0.09	0.11	1.35	1.79
1.49	2400	0.12	0.05	0.02	0.02	0.07	0.07	2.29	2.91	0.22	0.08	0.04	0.04	0.05	0.07	0.93	0.78
1.55	2500	0.10	0.05	0.02	0.02	0.05	0.06	2.28	2.89	0.18	0.06	0.03	0.03	0.04	0.06	0.93	0.78
1.62	2600	0.08	0.04	0.02	0.02	0.05	0.05	2.28	2.89	0.15	0.05	0.03	0.03	0.03	0.04	0.93	0.78
1.68	2700	0.08	0.04	0.02	0.02	0.05	0.05	2.28	2.89	0.15	0.05	0.03	0.03	0.03	0.04	0.93	0.78
1.74	2800	0.06	0.03	0.02	0.02	0.04	0.04	2.28	2.89	0.11	0.04	0.03	0.03	0.02	0.03	0.93	0.78
1.8	2900	0.05	0.02	0.02	0.02	0.03	0.03	2.28	2.89	0.09	0.03	0.03	0.03	0.02	0.03	0.93	0.78
1.86	3000	0.05	0.02	0.02	0.02	0.03	0.03	2.13	2.71	0.09	0.03	0.03	0.03	0.02	0.03	0.87	0.73
1.93	3100	0.05	0.02	0.02	0.01	0.03	0.03	1.80	2.28	0.09	0.03	0.03	0.03	0.02	0.03	0.75	0.63
1.99	3200	0.05	0.02	0.01	0.01	0.03	0.03	1.88	2.31	0.09	0.03	0.03	0.02	0.02	0.03	0.77	0.66
2.05	3300	0.04	0.02	0.01	0.01	0.03	0.03	1.93	2.34	0.08	0.03	0.03	0.02	0.02	0.02	0.79	0.67
2.11	3400	0.04	0.02	0.01	0.01	0.02	0.03	1.93	2.34	0.07	0.02	0.03	0.02	0.01	0.02	0.79	0.67
2.17	3500	0.04	0.02	0.01	0.01	0.02	0.03	1.93	2.34	0.07	0.02	0.03	0.02	0.01	0.02	0.79	0.67
2.24	3600	0.04	0.02	0.01	0.01	0.02	0.03	1.54	1.76	0.07	0.02	0.03	0.02	0.01	0.02	0.58	0.51

Table 2.3-327 (Sheet 3 of 3)
Cooling Tower Salt Deposition Rate

RCOL2_02.03.02-2 RCOL2_02.03.02-4 S01

CP COL 2.3(1)

Directions are directions to which the plume is headed.

$kg/km^2/month$

RCOL2_02.03.02-3 RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4 RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
2.3	3700	0.04	0.02	0.01	0.01	0.02	0.03	1.27	1.38	0.07	0.02	0.03	0.02	0.01	0.02	0.45	0.41
2.36	3800	0.04	0.02	0.01	0.01	0.02	0.03	1.20	1.30	0.07	0.02	0.03	0.02	0.01	0.02	0.43	0.39
2.42	3900	0.04	0.02	0.01	0.01	0.02	0.03	1.06	1.24	0.07	0.02	0.03	0.02	0.01	0.02	0.38	0.34
2.49	4000	0.04	0.02	0.01	0.01	0.02	0.03	0.97	1.20	0.07	0.02	0.03	0.02	0.01	0.02	0.35	0.31
2.55	4100	0.04	0.02	0.01	0.01	0.02	0.03	0.97	1.20	0.07	0.02	0.03	0.02	0.01	0.02	0.35	0.31
2.61	4200	0.04	0.02	0.01	0.01	0.02	0.03	0.97	1.20	0.07	0.02	0.03	0.02	0.01	0.02	0.35	0.31

RCOL2_02.03.02-2

Table 2.3-328 (Sheet 1 of 3)
Chlorides Deposition

CP COL 2.3(1)

Directions are directions to which the plume is headed.

RCOL2_02.03.02-4 S01

kg/km^2/month

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
0.06	100	37.6	36.6	75.8	63.1	41.4	47.6	102.1	132.1	211.9	47.4	98.7	65.0	16.9	15.8	30.7	48.9
0.12	200	31.8	27.8	43.9	37.4	26.4	31.6	64.6	94.2	196.3	39.2	52.8	36.9	11.8	12.7	21.8	29.3
0.19	300	10.90	8.18	25.75	19.44	5.54	7.50	51.15	80.13	74.44	13.03	34.76	24.27	3.14	3.85	17.61	23.06
0.25	400	9.56	7.17	10.62	8.11	4.99	6.80	39.20	61.93	65.02	11.50	14.00	9.53	2.82	3.39	13.85	17.62
0.31	500	9.60	7.17	0.36	0.27	5.30	7.26	16.17	19.74	65.46	11.65	0.69	0.58	2.74	3.40	6.12	7.06
0.37	600	9.43	7.01	0.23	0.21	5.13	6.98	13.45	16.70	64.27	11.34	0.41	0.35	2.55	3.34	4.88	5.96
0.43	700	8.49	6.29	0.15	0.15	4.55	5.90	9.15	12.30	57.52	9.82	0.26	0.24	2.16	3.03	3.12	4.28
0.5	800	5.77	4.26	0.13	0.12	2.80	3.55	6.98	10.01	38.16	6.50	0.23	0.21	1.49	2.08	2.18	3.11
0.56	900	0.50	0.29	0.11	0.10	0.39	0.43	6.96	9.99	1.17	0.42	0.23	0.21	0.22	0.26	2.18	3.10
0.62	1000	0.48	0.28	0.11	0.10	0.38	0.42	7.04	10.09	1.14	0.41	0.23	0.21	0.22	0.26	2.21	3.12
0.68	1100	0.48	0.27	0.11	0.10	0.38	0.41	8.17	11.68	1.14	0.41	0.23	0.21	0.22	0.26	2.54	3.45
0.75	1200	0.48	0.27	0.11	0.10	0.38	0.41	8.97	12.94	1.14	0.41	0.23	0.21	0.22	0.26	2.86	3.80
0.81	1300	0.48	0.27	0.11	0.10	0.38	0.41	9.26	13.26	1.14	0.41	0.23	0.21	0.22	0.26	2.95	3.89
0.87	1400	0.48	0.27	0.11	0.10	0.38	0.41	9.26	13.26	1.14	0.41	0.23	0.21	0.22	0.26	2.95	3.89
0.93	1500	0.48	0.27	0.11	0.10	0.38	0.41	9.07	13.11	1.14	0.41	0.23	0.21	0.22	0.26	2.90	3.72
0.99	1600	0.48	0.27	0.11	0.10	0.38	0.41	8.81	12.91	1.14	0.41	0.23	0.21	0.22	0.26	2.85	3.48
1.06	1700	0.48	0.27	0.10	0.09	0.38	0.41	8.81	12.91	1.14	0.41	0.20	0.19	0.22	0.26	2.85	3.48
1.12	1800	0.48	0.27	0.09	0.08	0.38	0.41	8.81	12.91	1.14	0.41	0.17	0.16	0.22	0.26	2.85	3.48

Table 2.3-328 (Sheet 2 of 3)
Chlorides Deposition

RCOL2_02.03.02-2

CP COL 2.3(1)

Directions are directions to which the plume is headed.

$kg/km^2/month$

RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
1.18	1900	0.48	0.27	0.08	0.07	0.38	0.41	8.81	12.91	1.14	0.41	0.15	0.14	0.22	0.26	2.85	3.48
1.24	2000	0.48	0.27	0.08	0.07	0.38	0.41	8.52	12.54	1.14	0.41	0.15	0.14	0.22	0.26	2.74	3.39
1.3	2100	0.45	0.26	0.07	0.06	0.34	0.38	8.09	11.99	1.08	0.38	0.13	0.12	0.21	0.25	2.58	3.26
1.37	2200	0.42	0.24	0.06	0.05	0.31	0.34	7.83	11.62	0.99	0.35	0.11	0.11	0.20	0.24	2.44	3.15
1.43	2300	0.29	0.15	0.05	0.04	0.18	0.20	6.90	10.16	0.62	0.22	0.08	0.09	0.13	0.17	2.07	2.75
1.49	2400	0.19	0.09	0.04	0.04	0.11	0.12	3.53	4.48	0.36	0.12	0.08	0.07	0.09	0.11	1.44	1.20
1.55	2500	0.16	0.07	0.04	0.03	0.09	0.10	3.51	4.46	0.29	0.10	0.06	0.06	0.07	0.09	1.43	1.20
1.62	2600	0.13	0.06	0.03	0.03	0.08	0.08	3.51	4.46	0.25	0.08	0.06	0.06	0.05	0.07	1.43	1.20
1.68	2700	0.13	0.06	0.03	0.03	0.08	0.08	3.51	4.46	0.25	0.08	0.06	0.06	0.05	0.07	1.43	1.20
1.74	2800	0.09	0.04	0.03	0.03	0.06	0.07	3.51	4.46	0.17	0.06	0.06	0.06	0.04	0.05	1.43	1.20
1.8	2900	0.08	0.04	0.03	0.03	0.05	0.06	3.51	4.46	0.15	0.05	0.06	0.06	0.03	0.05	1.43	1.20
1.86	3000	0.08	0.04	0.03	0.03	0.05	0.06	3.29	4.18	0.15	0.05	0.06	0.06	0.03	0.05	1.35	1.13
1.93	3100	0.08	0.04	0.03	0.03	0.05	0.06	2.78	3.53	0.15	0.05	0.06	0.05	0.03	0.05	1.16	0.98
1.99	3200	0.08	0.04	0.03	0.03	0.05	0.06	2.90	3.58	0.15	0.05	0.06	0.05	0.03	0.05	1.20	1.01
2.05	3300	0.07	0.03	0.03	0.03	0.05	0.05	2.98	3.61	0.13	0.05	0.06	0.05	0.03	0.04	1.22	1.04
2.11	3400	0.06	0.03	0.03	0.03	0.04	0.05	2.97	3.61	0.12	0.04	0.06	0.05	0.03	0.04	1.22	1.04
2.17	3500	0.06	0.03	0.03	0.03	0.04	0.05	2.97	3.61	0.12	0.04	0.06	0.05	0.03	0.03	1.22	1.04
2.24	3600	0.06	0.03	0.03	0.03	0.04	0.05	2.28	2.60	0.11	0.04	0.06	0.05	0.02	0.03	0.85	0.76

Table 2.3-328 (Sheet 3 of 3)
Chlorides Deposition

RCOL2_02.03.02-2

CP COL 2.3(1)

Directions are directions to which the plume is headed.

kg/km^2/month

RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
2.3	3700	0.06	0.03	0.03	0.03	0.04	0.05	1.98	2.16	0.11	0.04	0.06	0.05	0.02	0.03	0.70	0.63
2.36	3800	0.06	0.03	0.03	0.03	0.04	0.05	1.87	2.04	0.11	0.04	0.06	0.05	0.02	0.03	0.67	0.60
2.42	3900	0.06	0.03	0.03	0.03	0.04	0.05	1.65	1.95	0.11	0.04	0.06	0.05	0.02	0.03	0.60	0.53
2.49	4000	0.06	0.03	0.03	0.03	0.04	0.05	1.51	1.88	0.11	0.04	0.06	0.05	0.02	0.03	0.55	0.49
2.55	4100	0.06	0.03	0.03	0.03	0.04	0.05	1.51	1.88	0.11	0.04	0.06	0.05	0.02	0.03	0.55	0.49
2.61	4200	0.06	0.03	0.03	0.03	0.04	0.05	1.98	2.16	0.11	0.04	0.06	0.05	0.02	0.03	0.70	0.63

RCOL2_02.03.02-2

Table 2.3-329 (Sheet 1 of 3)
Total Dissolved Solids Deposition

CP COL 2.3(1)

Directions are directions to which the plume is headed.

$kg/km^2/month$

RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
0.06	100	73.7	71.8	150.0	125.0	81.0	93.3	203.4	264.2	415.5	93.1	195.1	128.5	33.1	31.0	61.1	97.3
0.12	200	62.2	54.3	85.6	72.9	51.5	61.6	130.2	190.3	384.9	76.6	103.1	72.1	23.1	24.9	43.8	59.1
0.19	300	21.0	15.8	50.8	38.4	10.8	14.6	101.2	158.8	143.4	25.2	68.5	47.8	6.1	7.4	34.7	45.7
0.25	400	18.7	14.0	19.7	15.0	9.8	13.4	75.2	118.1	126.8	22.5	26.0	17.7	5.5	6.6	26.9	33.8
0.31	500	18.7	14.0	0.7	0.6	10.3	14.2	31.4	38.3	127.6	22.7	1.4	1.2	5.4	6.7	11.9	13.7
0.37	600	18.4	13.7	0.5	0.4	10.0	13.6	25.9	32.1	125.1	22.1	0.9	0.7	5.0	6.5	9.4	11.5
0.43	700	16.6	12.3	0.3	0.3	8.9	11.5	17.3	23.3	112.1	19.2	0.6	0.5	4.2	5.9	5.8	8.0
0.5	800	11.1	8.2	0.3	0.3	5.4	6.8	13.6	19.4	73.3	12.5	0.5	0.5	2.9	4.0	4.3	6.0
0.56	900	1.0	0.6	0.3	0.2	0.8	0.9	13.6	19.4	2.4	0.9	0.5	0.5	0.5	0.5	4.3	6.0
0.62	1000	1.0	0.5	0.3	0.2	0.8	0.9	13.7	19.6	2.3	0.8	0.5	0.5	0.5	0.5	4.3	6.1
0.68	1100	1.0	0.5	0.3	0.2	0.8	0.9	16.0	22.9	2.3	0.8	0.5	0.5	0.5	0.5	5.0	6.8
0.75	1200	1.0	0.5	0.3	0.2	0.8	0.9	17.8	25.6	2.3	0.8	0.5	0.5	0.5	0.5	5.7	7.5
0.81	1300	1.0	0.5	0.3	0.2	0.8	0.9	18.3	26.2	2.3	0.8	0.5	0.5	0.5	0.5	5.8	7.7
0.87	1400	1.0	0.5	0.3	0.2	0.8	0.9	18.3	26.2	2.3	0.8	0.5	0.5	0.5	0.5	5.8	7.7
0.93	1500	1.0	0.5	0.3	0.2	0.8	0.9	17.9	25.9	2.3	0.8	0.5	0.5	0.5	0.5	5.7	7.3
0.99	1600	1.0	0.5	0.3	0.2	0.8	0.9	17.4	25.5	2.3	0.8	0.5	0.5	0.5	0.5	5.6	6.9
1.06	1700	1.0	0.5	0.2	0.2	0.8	0.9	17.4	25.5	2.3	0.8	0.4	0.4	0.5	0.5	5.6	6.9
1.12	1800	1.0	0.5	0.2	0.2	0.8	0.9	17.4	25.5	2.3	0.8	04	04	0.5	0.5	5.6	6.9

Table 2.3-329 (Sheet 2 of 3)
Total Dissolved Solids Deposition

RCOL2_02.03.02-2

CP COL 2.3(1)

Directions are directions to which the plume is headed.

kg/km^2/month

RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
1.18	1900	1.0	0.5	0.2	0.2	0.8	0.9	17.4	25.5	2.3	0.8	0.4	0.3	0.5	0.5	5.6	6.9
1.24	2000	1.0	0.5	0.2	0.2	0.8	0.9	16.8	24.8	2.3	0.8	0.4	0.3	0.5	0.5	5.4	6.7
1.3	2100	0.9	0.5	0.2	0.1	0.7	0.8	16.0	23.7	2.2	0.8	0.3	0.3	0.4	0.5	5.1	6.4
1.37	2200	0.8	0.5	0.1	0.1	0.6	0.7	15.3	22.8	2.0	0.7	0.3	0.3	0.4	0.5	4.7	6.2
1.43	2300	0.5	0.3	0.1	0.1	0.4	0.4	12.2	17.7	1.2	0.4	0.2	0.2	0.3	0.3	3.8	4.8
1.49	2400	0.4	0.2	0.1	0.1	0.2	0.3	6.9	8.8	0.8	0.3	0.2	0.2	0.2	0.2	2.8	2.4
1.55	2500	0.3	0.2	0.1	0.1	0.2	0.2	6.9	8.8	0.6	0.2	0.2	0.2	0.1	0.2	2.8	2.4
1.62	2600	0.3	0.1	0.1	0.1	0.2	0.2	6.9	8.8	0.6	0.2	0.2	0.2	0.1	0.2	2.8	2.4
1.68	2700	0.3	0.1	0.1	0.1	0.2	0.2	6.9	8.8	0.6	0.2	0.2	0.2	0.1	0.2	2.8	2.4
1.74	2800	0.2	0.1	0.1	0.1	0.1	0.2	6.9	8.8	0.4	0.1	0.2	0.2	0.1	0.1	2.8	2.4
1.8	2900	0.2	0.1	0.1	0.1	0.1	0.2	6.9	8.8	0.4	0.1	0.2	0.1	0.1	0.1	2.8	2.4
1.86	3000	0.2	0.1	0.1	0.1	0.1	0.2	6.5	8.2	0.4	0.1	0.2	0.1	0.1	0.1	2.6	2.2
1.93	3100	0.2	0.1	0.1	0.1	0.1	0.2	5.5	7.0	0.4	0.1	0.2	0.1	0.1	0.1	2.3	1.9
1.99	3200	0.2	0.1	0.1	0.1	0.1	0.2	5.7	7.1	0.4	0.1	0.2	0.1	0.1	0.1	2.4	2.0
2.05	3300	0.2	0.1	0.1	0.1	0.1	0.1	5.9	7.2	0.3	0.1	0.1	0.1	0.1	0.1	2.4	2.1
2.11	3400	0.1	0.1	0.1	0.1	0.1	0.1	5.9	7.2	0.3	0.1	0.1	0.1	0.1	0.1	2.4	2.1
2.17	3500	0.1	0.1	0.1	0.1	0.1	0.1	5.9	7.2	0.3	0.1	0.1	0.1	0.1	0.1	2.4	2.1
2.24	3600	0.1	0.1	0.1	0.1	0.1	0.1	4.4	5.0	0.3	0.1	0.1	0.1	0.1	0.1	1.6	1.4

Table 2.3-329 (Sheet 3 of 3)
Total Dissolved Solids Deposition

RCOL2_02.03.02-2

CP COL 2.3(1)

Directions are directions to which the plume is headed.

kg/km^2/month

RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
2.3	3700	0.1	0.1	0.1	0.1	0.1	0.1	4.0	4.4	0.3	0.1	0.1	0.1	0.1	0.1	1.4	1.3
2.36	3800	0.1	0.1	0.1	0.1	0.1	0.1	3.8	4.2	0.3	0.1	0.1	0.1	0.1	0.1	1.4	1.2
2.42	3900	0.1	0.1	0.1	0.1	0.1	0.1	3.4	4.0	0.3	0.1	0.1	0.1	0.1	0.1	1.2	1.1
2.49	4000	0.1	0.1	0.1	0.1	0.1	0.1	3.1	3.9	0.3	0.1	0.1	0.1	0.1	0.1	1.1	1.0
2.55	4100	0.1	0.1	0.1	0.1	0.1	0.1	3.1	3.9	0.3	0.1	0.1	0.1	0.1	0.1	1.1	1.0
2.61	4200	0.1	0.1	0.1	0.1	0.1	0.1	3.1	3.9	0.3	0.1	0.1	0.1	0.1	0.1	1.1	1.0

Table 2.3-330 (Sheet 1 of 3)
Water Deposition

RCOL2_02.03.02-2

CP COL 2.3(1)

Directions are directions to which the plume is headed.

$kg/km^2/month$

RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
0.06	100	8500	8200	18000	15000	9000	10000	23000	30000	49000	11000	23000	15000	3700	3500	6800	11000
0.12	200	7200	6300	10000	8600	5800	7000	15000	21000	45000	8800	12000	8500	2600	2800	4900	6600
0.19	300	2500	1900	6000	4500	1200	1700	11000	18000	17000	3000	8000	5600	690	870	3900	5100
0.25	400	2200	1600	2300	1800	1100	1500	8400	13000	15000	2600	3100	2100	620	780	3000	3800
0.31	500	2200	1600	75	54	1100	1500	3400	4200	15000	2600	150	130	610	780	1300	1500
0.37	600	2200	1600	45	40	1100	1500	2800	3500	15000	2600	80	74	580	760	1000	1300
0.43	700	1900	1400	29	28	970	1200	1900	2500	13000	2200	50	49	490	690	640	880
0.5	800	1300	960	24	22	610	770	1500	2100	8600	1500	45	44	340	470	460	650
0.56	900	110	62	23	20	83	91	1500	2100	250	90	44	44	47	56	460	650
0.62	1000	100	60	23	20	80	88	1500	2100	250	86	44	44	47	56	470	660
0.68	1100	100	59	23	20	80	88	1800	2600	240	86	44	44	47	56	560	77
0.75	1200	100	59	23	20	80	88	2100	3000	240	86	44	44	47	56	660	880
0.81	1300	100	59	23	20	80	88	2100	3100	240	86	44	44	47	56	680	900
0.87	1400	100	59	23	20	80	88	2100	3100	240	86	44	44	47	56	680	900
0.93	1500	100	59	23	20	80	88	2100	3000	240	86	44	44	47	56	670	860
0.99	1600	100	59	23	20	80	88	2000	3000	240	86	44	44	47	56	660	810
1.06	1700	100	59	19	17	80	88	2000	3000	240	86	35	36	47	56	660	810
1.12	1800	100	59	16	14	80	88	2000	3000	240	86	30	32	47	56	660	810

Table 2.3-330 (Sheet 2 of 3)
Water Deposition

RCOL2_02.03.02-2

CP COL 2.3(1)

Directions are directions to which the plume is headed.

kg/km^2/month

RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
1.18	1900	100	59	14	12	80	88	2000	3000	240	86	27	28	47	56	660	810
1.24	2000	100	59	14	12	80	88	2000	2900	240	86	25	27	47	56	630	780
1.3	2100	98	56	12	11	72	79	1900	2800	230	81	20	22	45	53	590	750
1.37	2200	91	51	11	9.7	65	71	1800	2700	210	74	18	21	42	50	550	720
1.43	2300	58	28	8.2	7.8	34	38	1400	2100	120	40	13	16	25	32	440	560
1.49	2400	41	18	6.9	6.9	21	24	800	1000	74	24	11	12	18	22	320	270
1.55	2500	32	14	5.8	6	17	18	800	1000	55	18	8.9	8.6	12	16	320	270
1.62	2600	27	13	5.7	6	14	16	800	1000	48	15	8.8	8.5	10	14	320	270
1.68	2700	27	13	5.7	6	14	16	800	1000	48	15	8.8	8.5	10	14	320	270
1.74	2800	16	7.2	5.7	5.9	9.5	10	800	1000	27	8.3	8.8	8.4	5.6	7.9	320	270
1.8	2900	14	6.1	5.4	5.4	8.5	8.9	800	1000	24	6.9	8.5	8.2	4.8	7.1	320	270
1.86	3000	14	6.1	5.1	5	8.5	8.9	750	950	24	6.9	8.2	7.7	4.8	7.1	300	260
1.93	3100	14	6.1	3.8	3.3	8.5	8.9	630	800	24	6.9	7.1	5.8	4.8	7.1	260	220
1.99	3200	14	6.1	3.8	3.3	8.5	8.9	660	810	24	6.9	7.1	5.8	4.8	7.1	270	230
2.05	3300	10	4.7	3.4	3	6.4	7	680	820	18	5.2	5.3	5.2	3.5	4.9	280	240
2.11	3400	9.1	4.4	3.3	2.9	5.9	6.6	680	820	16	4.8	4.5	4.8	3.1	4.4	280	240
2.17	3500	9.1	4.4	3.3	2.9	5.9	6.6	680	820	16	4.8	4.5	4.8	3.1	4.4	280	240
2.24	3600	9.1	4.4	3.3	2.9	5.9	6.6	490	550	16	4.8	4.5	4.8	3.1	4.4	180	160

Table 2.3-330 (Sheet 3 of 3)
Water Deposition

RCOL2_02.03.02-2

CP COL 2.3(1)

Directions are directions to which the plume is headed.

kg/km^2/month

RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4

RCOL2_02.03.02-4 S01

(mi)	(m)	S	SSW	SW	WSW	W	WNW	NW	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE
2.3	3700	9.1	4.4	3.3	2.9	5.9	6.6	440	470	16	4.8	4.5	4.8	3.1	4.4	150	140
2.36	3800	9.1	4.4	3.3	2.9	5.9	6.6	410	450	16	4.8	4.5	4.8	3.1	4.4	150	130
2.42	3900	9.1	4.4	3.3	2.9	5.9	6.6	360	430	16	4.8	4.5	4.8	3.1	4.4	130	120
2.49	4000	9.1	4.4	3.3	2.9	5.9	6.6	330	410	16	4.8	4.5	4.8	3.1	4.4	120	100
2.55	4100	9.1	4.4	3.3	2.9	5.9	6.6	330	410	16	4.8	4.5	4.8	3.1	4.4	120	100
2.61	4200	9.1	4.4	3.3	2.9	5.9	6.6	330	410	16	4.8	4.5	4.8	3.1	4.4	120	100

Note: These can be converted to inches per year of increased precipitation by multiplying by 4.7×10^{-7}

Table 2.3-331
Visible Plume Length Summary

CP COL 2.3(1)

	Winter	Spring	Summer	Fall
Most Frequent Plume Heading Directions	N,NNW,SSE,S	N,NNW,NW	N,NNW,NW	N,NNW,NW,S
Percent of Plumes < 1/3 mi	~~33.4~~32.4	~~60.0~~59.3	~~79.0~~78.2	~~56.4~~55.7
Percent of Plumes >1/3 to 2/3 mi	~~3.5~~9.4	~~2.8~~7.7	~~2.0~~6.3	~~2.8~~8.4
Percent of Plumes >2/3 to 5 mi	~~23.7~~19.8	~~18.3~~15.0	~~11.4~~8.4	~~18.6~~14.4
Percent of Plumes >5 mi	~~38.8~~37.7	~~18.6~~17.7	~~7.2~~6.7	~~21.3~~20.6

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

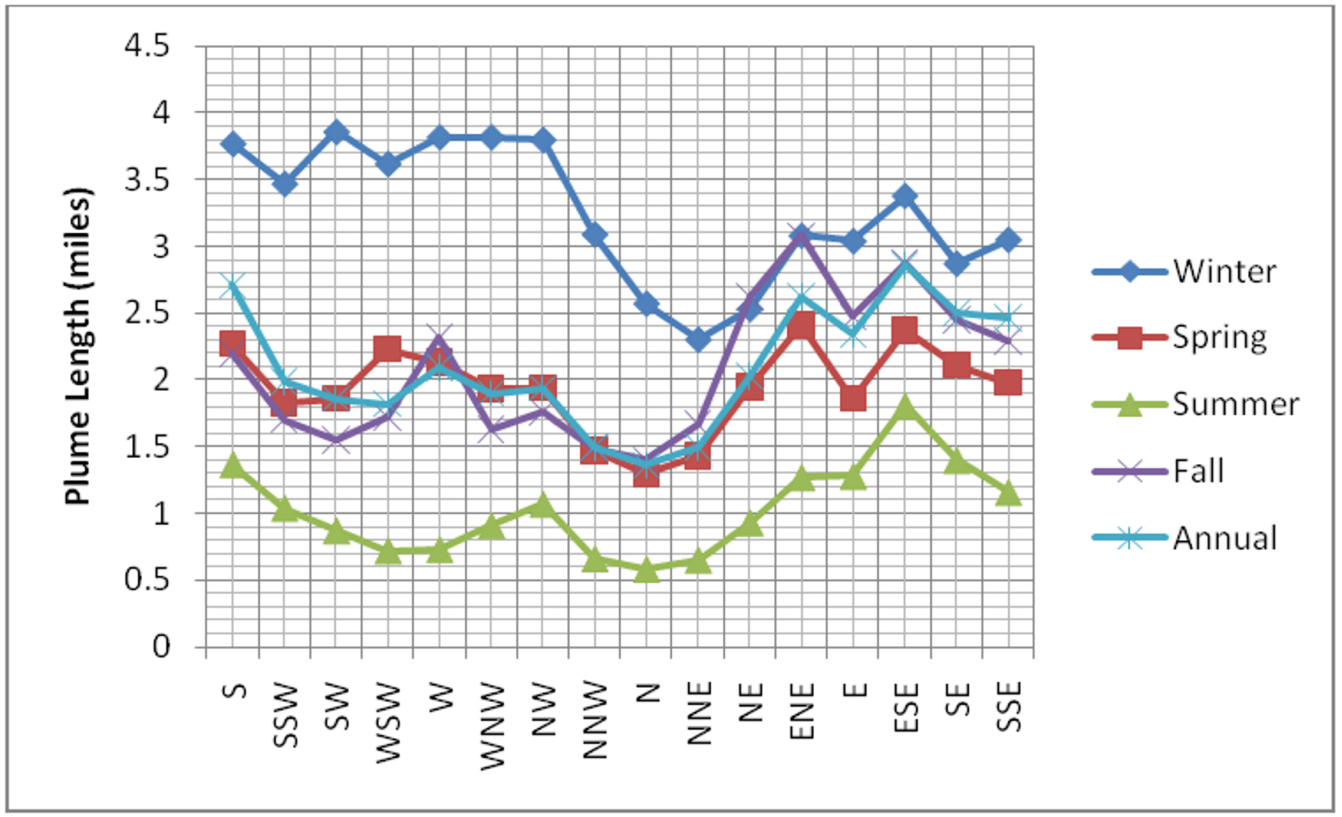

Figure 2.3-372 CPNPP Cooling Tower Seasonal Visible Plume Length

RCOL2_02.03.02-2
RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

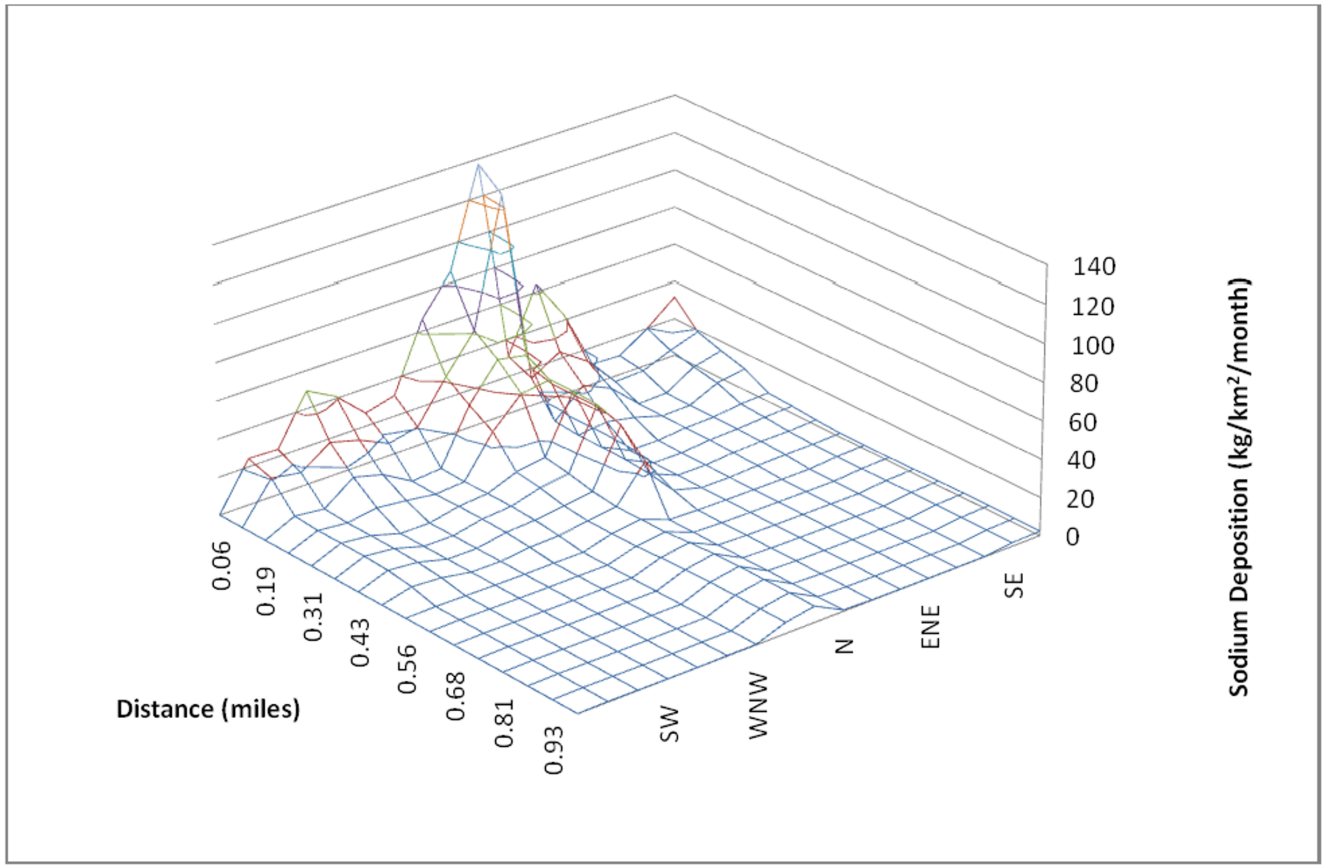

Figure 2.3-373 CPNPP Cooling Tower ~~Annual Sodium~~ Salt Deposition

RCOL2_02.03.02-2
RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

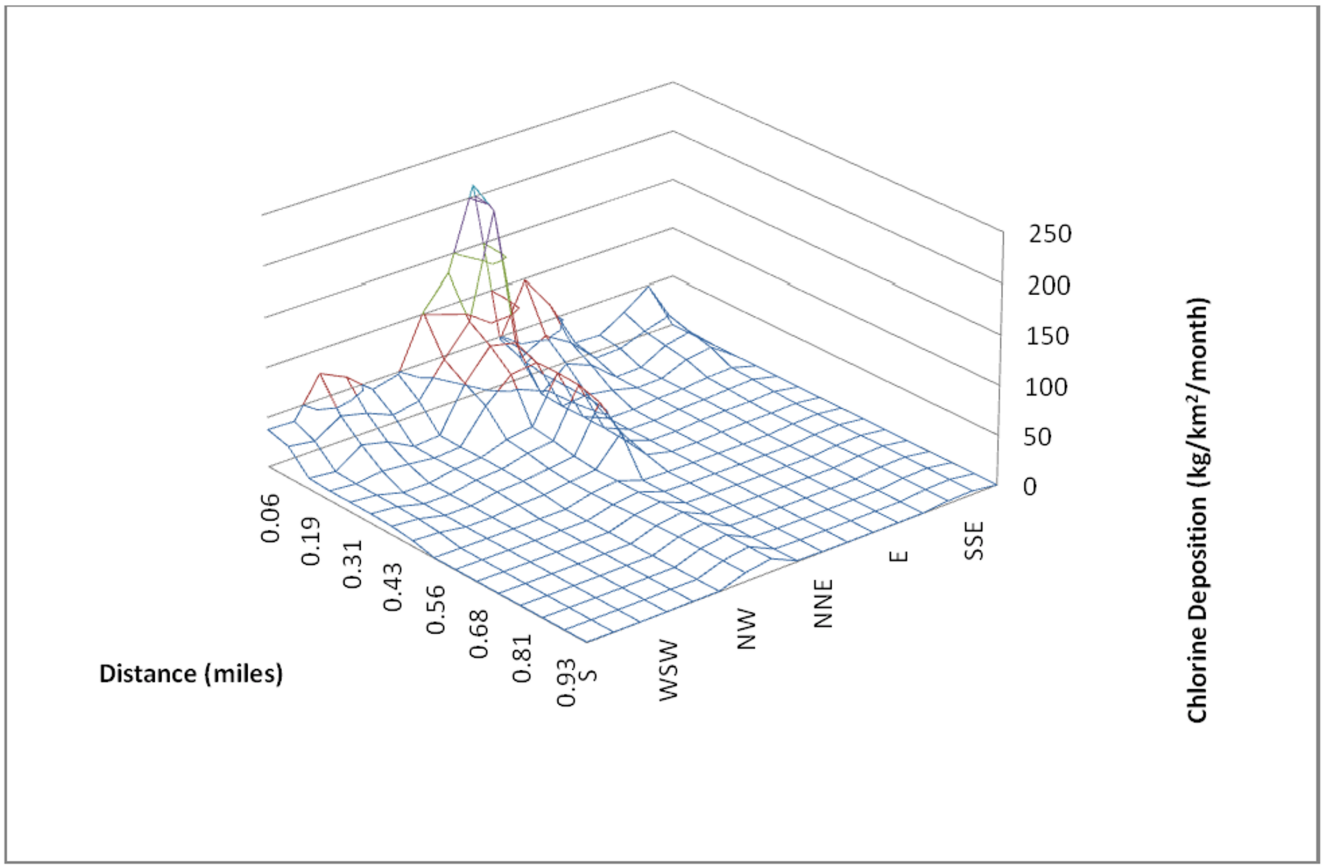

Figure 2.3-374 CPNPP Cooling Tower ~~Annual~~ Chloride Deposition

RCOL2_02.03.02-2
RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

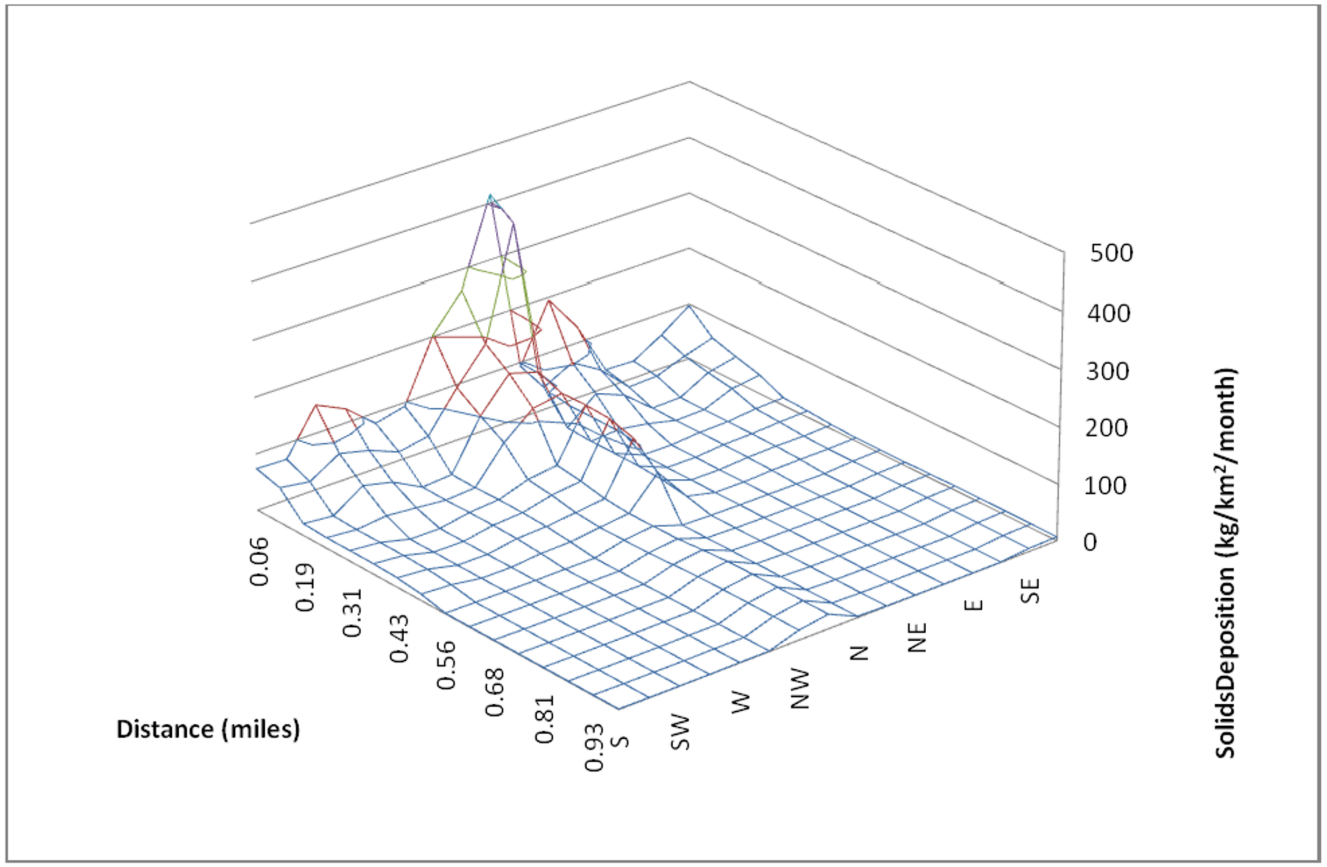

Figure 2.3-375 CPNPP Cooling Tower ~~Annual~~ Total Dissolved Solids Deposition

RCOL2_02.03.02-2
RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

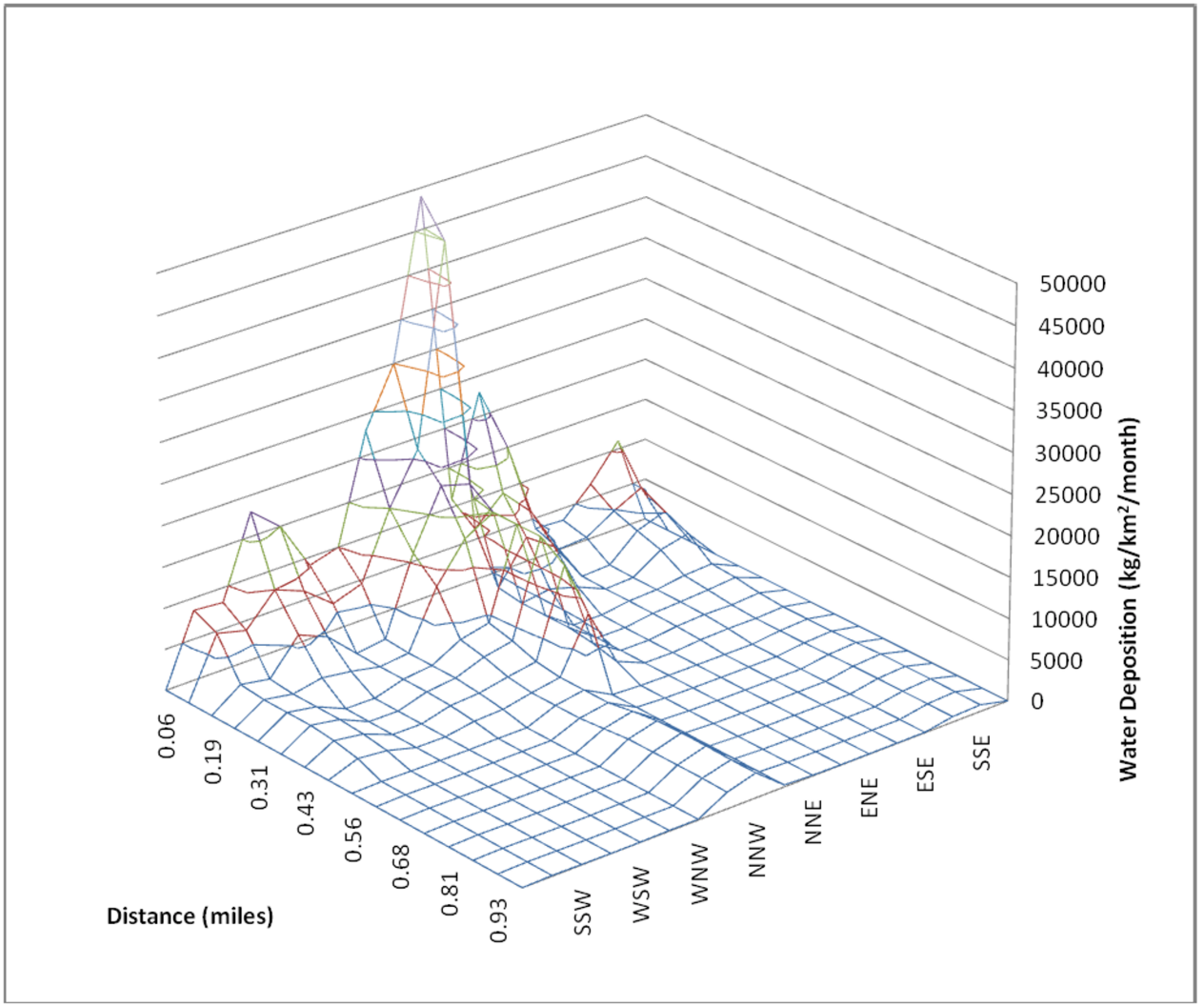

Figure 2.3-376 CPNPP Cooling Tower ~~Annual~~ Water Deposition ~~in kg/(km2 month)~~

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

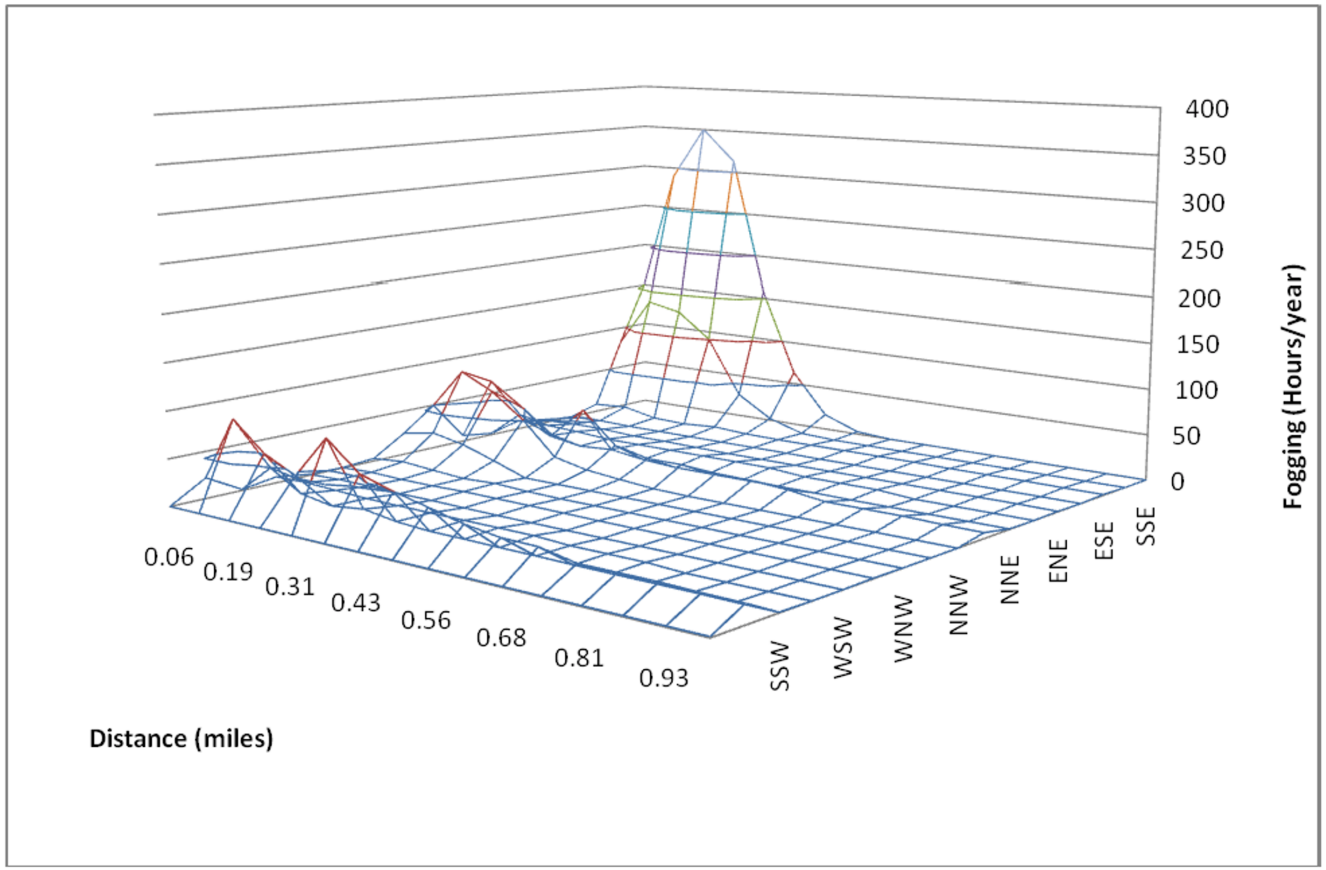

Figure 2.3-377 CPNPP Cooling Tower Annual Hours per Year Fogging

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

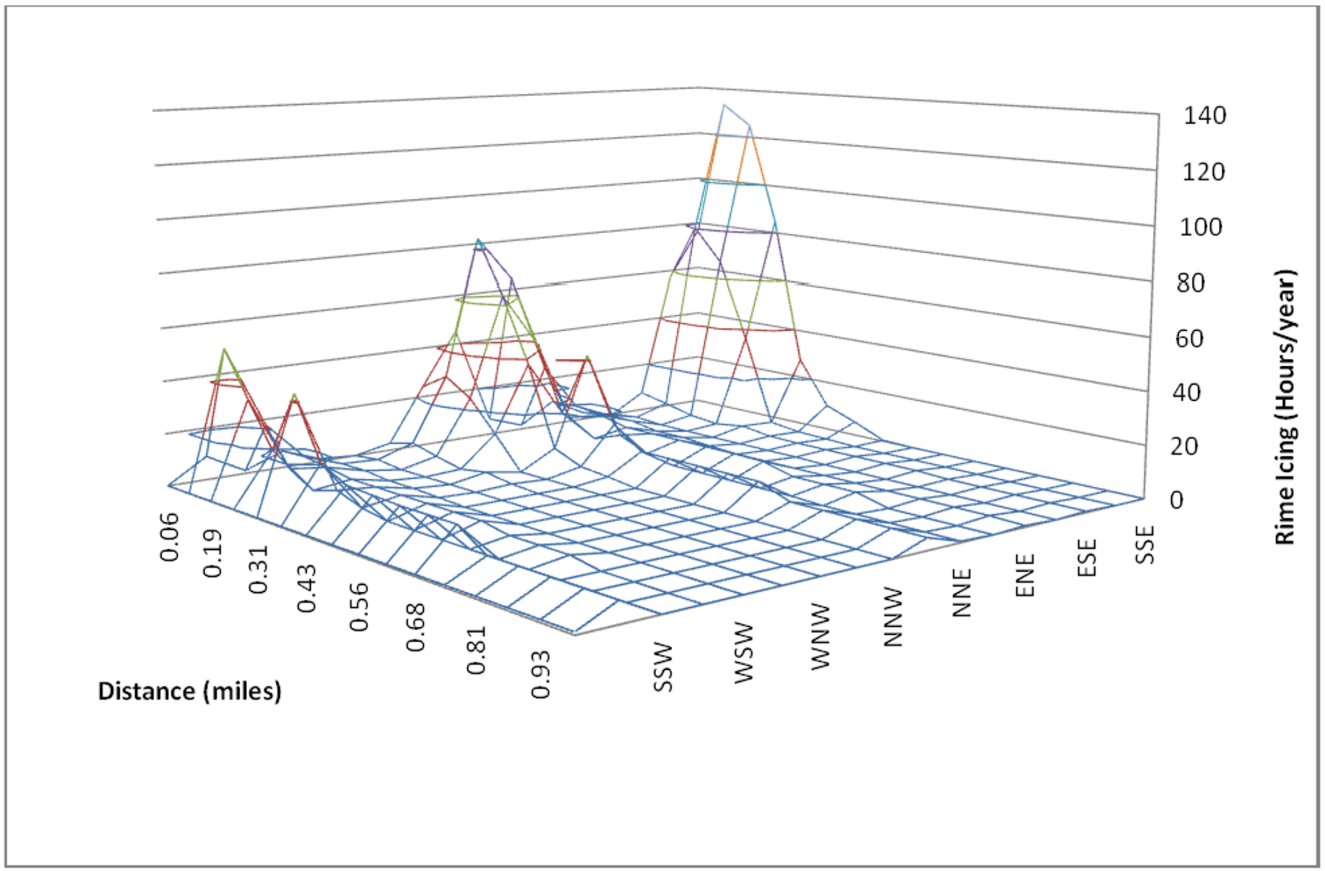

Figure 2.3-378 CPNPP Cooling Tower Annual Hours per Year Rime Icing

RCOL2_02.03.02-4
RCOL2_02.03.02-4 S01

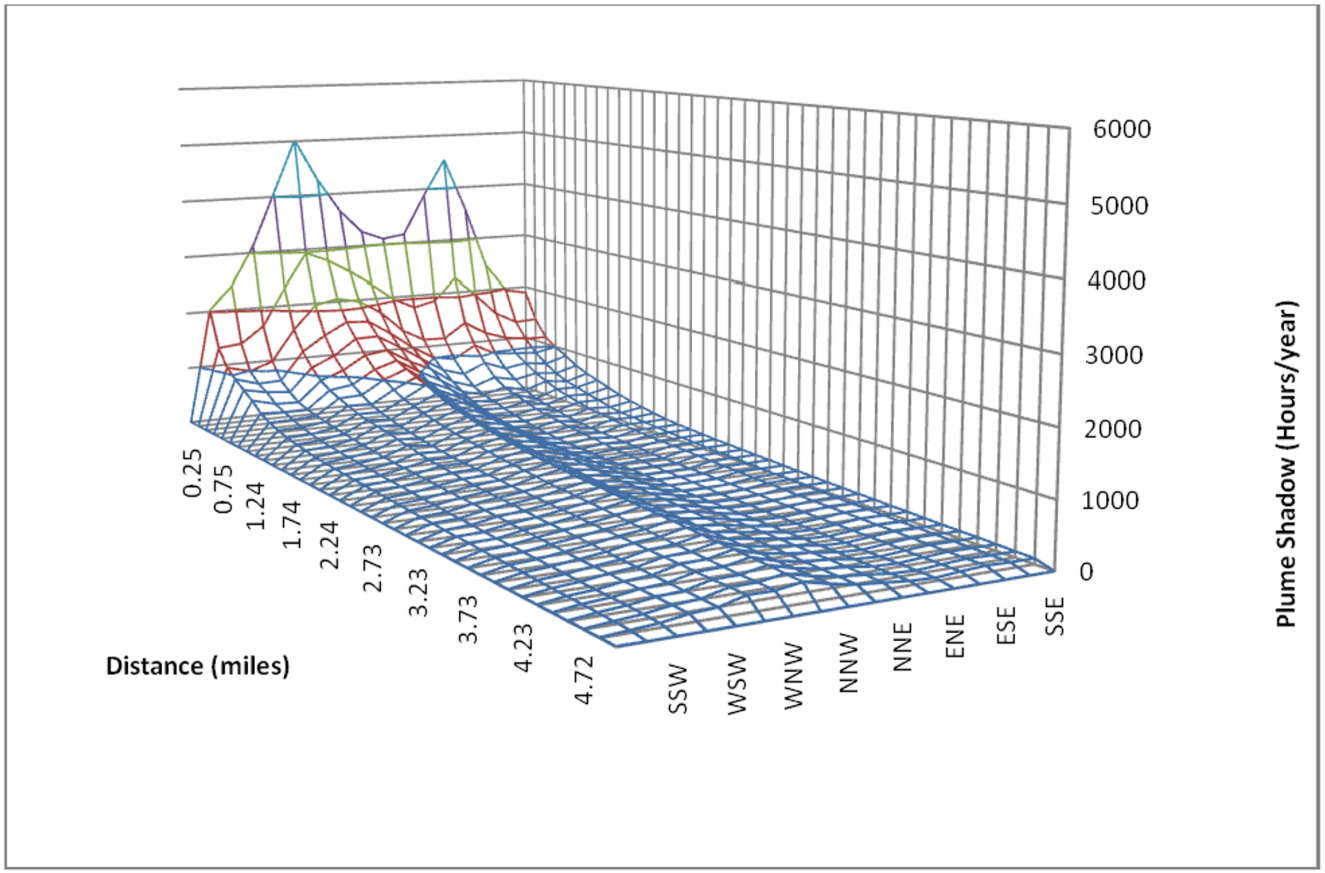

Figure 2.3-379 ~~CPNPP Cooling Tower~~ CPNPP Cooling Tower Annual Hours of Plume Shadow