

UTAH STATE DEPARTMENT OF HEALTH
 Division of Environmental Health
 Bureau of Air Quality
 PM10 S.I.P. Control Strategy Worksheet

Site: North Salt Lake Monitor Date: 09-Jan-91
 Period: EXCEEDANCE DAYS IN WINTERS 88/89,89/90 Projection: 2001

Source Category	Design Day % Contribution	Impact	Additional Control	Additional Growth	Attainment Impact
(1) Major Point sources	42.92	72.3	17.0%	0.00%	60.1
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Copper smelter	4.78	8.0	41.2%	0.00%	4.7
Oil refinery cat crackers	3.28	5.5	-15.6%	0.00%	6.4
Other point sources	10.90	18.4	36.4%	0.00%	11.7
Secondary Sulfate	10.73	18.1	63.1%	0.00%	6.7
Secondary Nitrate	13.23	22.3	-37.1%	0.00%	30.6
(2) Vehicle Sub-Total	29.28	49.3			41.2
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Composite Mobile sources	5.45	9.2			
Leaded Gas Fueled	1.68	2.8	6.0%	55.80%	4.1
Diesel Fueled	2.74	4.6	23.8%	55.80%	5.5
Unleaded Gas Fueled	1.04	1.7	6.0%	55.80%	2.6
Re-entrained road dust	1.26	2.1	0.6%	0.00%	2.1
Road Salting	0.00	0.0	0.0%	0.00%	0.0
Brakewear	2.49	4.2	0.0%	55.80%	6.5
Secondary Sulfate	0.28	0.5	59.0%	55.80%	0.3
Secondary Nitrate	19.80	33.4	61.3%	55.80%	20.1
(3) Space Heating Sub-Total	24.28	40.9			29.4
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Wood Burning	16.03	27.0	60.0%	25.02%	13.5
Coal Burning	0.59	1.0	60.0%	25.02%	0.5
Gas & Other Heating	1.05	1.8	0.0%	25.02%	2.2
Secondary Sulfate	0.22	0.4	17.6%	25.02%	0.4
Secondary Nitrate	6.40	10.8	5.0%	25.02%	12.8
(4) Other sources	3.52	5.9			5.9
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Trains	0.53	0.9	0.0%	0.0%	0.9
Planes	0.48	0.8	0.0%	0.0%	0.8
Secondary Sulfate	0.03	0.1	0.0%	0.0%	0.1
Secondary Nitrate	2.48	4.2	0.0%	0.0%	4.2
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Total	100.00	168.5			136.6
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Design Value	168.5 (Micrograms/Cubic Meter)		04-DEC-88		

Note:

• % growth of VMT's each year = 3.0%

% population growth per year = 1.5%

These figures were then projected out to the year 2001

0.70269597 = Gadsby's capacity factor during the winter season

0.65 = KMC's Utah Power Plant capacity factor during the winter season

73.0% = expected % of diesel fuel burned that will meet new SO₂ standards

15,000 lb/hr = the worst case hourly emission rate from the tall stack

TABLE 9.A.14