

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

Site: Salt Lake City Monitor Date: 09-Jan-91  
 Period: EXCEEDANCE DAYS IN WINTERS 88/89,89/90 Projection:2003

Source Category	Design Day % Contribution	Impact	Additional Control	Additional Growth	Attainment Impact
(1) Major Point sources	43.98	74.7	20.3%	0.00%	59.6
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Copper smelter	5.69	9.7	41.2%	0.00%	5.7
Oil refinery cat crackers	3.23	5.5	-15.6%	0.00%	6.3
Other point sources	11.71	19.9	36.4%	0.00%	12.6
Secondary Sulfate	11.45	19.5	63.1%	0.00%	7.2
Secondary Nitrate	11.90	20.2	-37.1%	0.00%	27.7
(2) Vehicle Sub-Total	31.19	53.0			46.4
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Composite Mobile sources	7.09	12.0			
Leaded Gas Fueled	2.18	3.7	6.0%	55.80%	5.4
Diesel Fueled	3.56	6.0	23.8%	55.80%	7.2
Unleaded Gas Fueled	1.35	2.3	6.0%	55.80%	3.4
Re-entrained road dust	4.21	7.1	0.6%	0.00%	7.1
Road Salting	0.00	0.0	0.0%	0.00%	0.0
Brakewear	1.80	3.0	0.0%	55.80%	4.8
Secondary Sulfate	0.30	0.5	59.0%	55.80%	0.3
Secondary Nitrate	17.80	30.2	61.3%	55.80%	18.2
(3) Space Heating Sub-Total	21.25	36.1			26.1
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Wood Burning	13.85	23.5	60.0%	25.02%	11.8
Coal Burning	0.51	0.9	60.0%	25.02%	0.4
Gas & Other Heating	0.90	1.5	0.0%	25.02%	1.9
Secondary Sulfate	0.23	0.4	17.6%	25.02%	0.4
Secondary Nitrate	5.75	9.8	5.0%	25.02%	11.6
(4) Other sources	3.58	6.1			6.1
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Trains	0.69	1.2	0.0%	0.0%	1.2
Planes	0.63	1.1	0.0%	0.0%	1.1
Secondary Sulfate	0.03	0.1	0.0%	0.0%	0.1
Secondary Nitrate	2.23	3.8	0.0%	0.0%	3.8
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Total	100.00	169.9			138.1

Design Value = 169.9 (Micrograms/Cubic Meter) on 17-Feb-89

Note:

\* % growth of VMT's each year = 3.0%

# % population growth per year = 1.5%

These figures were then projected out to the year: 2003

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 SO<sub>2</sub> standards

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

TABLE 9.A.20