From: Rand Crafts
To: mradulov@deq.state.ut.us
Date: Tuesday, October 30, 2001 9:11:46 AM
Subject: Draft AO Numbers - revisited

Milka,

The attached WP charts should help fill in the blanks. Note that the PM10 number has changed. For some reason it was not calculated as a 2 year average; - it just used last year's number. Anyway it is correct now.

I'm still not sure what you would like in PTE - please call and we can discuss.

The last chart separates boiler and non-boiler emissions.

If you have questions, let me know. Thanks.

Rand Crafts
Intermountain Power Service Corp
rand-c@ipsc.com
435-864-6494
435-864-0994 Fax

II. EMISSION SUMMARY

The emissions from the entire plant (excl. fugitives) will be as follows:

Pollutant	Current Actual Emissions (Last 2 year average) tons/year	Emission Increase tons/year	Projected Future Actual Emissions tons/year
PM_{10}	820.32	9.75	830.07
SO_2	3586.31	0.00	3586.31
NO_x	25143.97	0.00	25143.97
CO	1317.06	77.56	1394.62
VOC	11.81	0.69	12.50
HAPs Lead	0.098	0.007	0.105
Beryllium	0.001195529	0.000000	0.001195529
Mercury	0.081	0.024	0.105
Fluorides (HF)	9.70	0.42	10.12
Sulfuric Acid	4.06	0.00	4.06
Other HAPs (non-VOC)	59.38	0.40	59.78

The potential to emit from the entire plant (incl. fugitives) will be as follows:

Pollutant	Current PTE tons/year	Emission Increase tons/year	Total PTE tons/year
PM_{10}	3,287		
SO_2	11,322		
NO_x	37,868		
CO	1,891		
VOC	63		
HAPs Lead	.386		
Beryllium	.009		
Mercury	.289		
Fluorides (HF)	15.5		
Sulfuric Acid	8.1		
Other HAPs (non-VOC)	86.2		

Pollutant	Current PTE tons/year	Emission Increases tons/year	Total PTE tons/year
PM_{10}	248.88	(9.75+538.79*)	797.41
SO_2		3,698.32	0.00
3,698.32			
NO_x	24,178.63	0.00	24,178.63
CO	1,312.44	77.56	1390.00
VOC	14.29	0.69	13.60
HAPs			
Lead	0.098	0.007	0.105
Beryllium	0.001195529	-0.00008	0.001119
Mercury	0.081	0.024	0.105
Fluorides (HF)	9.70	0.42	10.12
Sulfuric Acid	4.06	-0.11	3.96
Other HAPs (non-VOC)	59.38	0.40	59.78
	HAPs	82.67????	

*Denotes existing emissions from the existing cooling towers inadvertently omitted from the previous AOs

Plant Emission Summary (excl. fugitives)

Pollutant	Actual Annual Emissions (ton/yr)	Projected Future Emissions (ton/yr)	Emissions Increases (ton/yr)
Boiler 1 &2 Stack			
PM10	281.53	9.72	291.25
SO2	3,586.19	0.00	3,586.19
NOX	25,143.82	0.00	25,143.82
CO	1,317.04	77.56	1,394.86
VOC	11.52	0.69	12.21
Other Sources			
PM10	539.19	0.03	539.22
SO2	0.12	0.00	0.12
NOX	0.15	0.00	0.15
CO	0.02	0.00	0.02
VOC	0.29	0.00	0.29

TOTALS	25708.19	4281.35	114.19	.56	1321.04

4.14

II. EMISSION SUMMARY

The emissions from the entire plant will be as follows: 1.85 NEW 4.7417

vs. Boiler

Pollutant	Current Actual Emissions (Last 2 year average) tons/year	Emission Increase tons/year	Projected Future Actual Emissions tons/year
PM_{10}	[redacted]	9.75	797.41
SO_2	3586.31	0.00	3586.31
NO_x	25143.97	0.00	25143.97
CO	1317.06	77.56	1394.62
VOC	11.81	0.69	12.50
HAPs			
Lead	0.098	0.007	0.105
Beryllium	0.001195529	0.000000	0.001195529
Mercury	0.081	0.024	0.105
Fluorides (HF)	9.70	0.42	10.12
Sulfuric Acid	4.06	0.00	4.06
Other HAPs (non-VOC)	59.38	0.40	59.78

INITS
Nx
2
; 1394.62
C
10 278.5755
THER
Ox
2
5
C
Hb 0.1815 - Coal only
~~538.79~~
? 513.90

2000

U1 NOx 13,972 1.223 | SO2 1855.10 | PM10 223.422 +0.30+ 0.061 | VOC 8.024 | CO 699.7704.611
U2 NOX 12137 1.292 | 1619.20 | 100.503 .46 .065 | .026 | 621.177 + .646
THER NOX | | (2730) + 10.933 (incl. Fug) | 0.30 Fug. .1119 + 2 TANKS | .014
Plant 26111.515 | 3474.2 | 0.193 Non-Fug Only | 12.8636 | 1322.204
0.187 - Coal Only
338.502

OX 11.814 1.701 | 1566.40 | 132.154 + 1.875 + .085 | .034 | TANKS .33 x 2 | 618.053 .851
UA 12.362 .783 | 2131.80 | 10.284 1.231 .039 | .016 | 693.145 .392
.1504 | .1186 | .2046 | 14.2918 | 1312.441
.180 Coal Only

24178.6344 | 3698.3186 | 248.8796

TOTAL AVG ~~25145.747~~ 25145.00 | 3586.26 | 20.53 293.69 538.79 .1835 | 13.578 | 1317.32

The potential to emit from the entire plant will be as follows:

Pollutant	Current PTE tons/year	Emission Increase tons/year	Total PTE tons/year
PM_{10}	3287		
SO_2	11322		
NO_x	37868		
CO	1891		
VOC	63		
HAPs			
Lead	.386		
Beryllium	.009		
Mercury	.289		
Fluorides (HF)	15.5		
Sulfuric Acid	8.1		
Other HAPs (non-VOC)	86.2		

Pollutant	Current PTE tons/year	Emission Increases tons/year	Total PTE tons/year
PM_{10}	248.88	(9.75+538.79*)	797.41
SO_2	3,698.32	0.00	3,698.32
NO_x	24,178.63	0.00	24,178.63
CO	1,312.44	77.56	1390.00
VOC	14.29	0.69	13.60
HAPs			
Lead	0.098	0.007	0.105
Beryllium	0.001195529	-0.00008	0.001119
Mercury	0.081	0.024	0.105
Fluorides (HF)	9.70	0.42	10.12
Sulfuric Acid	4.06	-0.11	3.96
Other HAPs (non-VOC)	59.38	0.40	59.78

Total HAPs 82.67????

*Denotes existing emissions from the existing cooling towers inadvertently omitted from the previous AOs

Plant Emission Summary

Pollutant	Actual Annual Emissions (ton/yr)	Projected Future Emissions (ton/yr)	Emissions Increases (ton/yr)
Boiler 1 &2 Stack			
PM10	281.53	9.72	291.25
SO2	3586.31	~~0~~	
NOX	2545.00	~~0~~	
CO	1317.32	77.56	1394.88
VOC	11.81	0.69	12.50
Other Sources (Non-Fugi)			
PM10	539.19 0.3976 + 538.79	0.03	539.22
SO2	.1186	~~0~~	~~0~~ 0.12
NOX	0.1504	~~0~~	.15 0.15
CO	0.004	~~0~~	0.02
VOC	0.282	~~0~~	0.29