

CEWG Update on Intel's Abatement Uptimes

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Overview

- 2000-2004 YTD RTO and Scrubber Uptimes
- 2000-2004 Unabated Emissions and Downtimes
- Itemized Emissions from Scheduled and Unscheduled downtimes

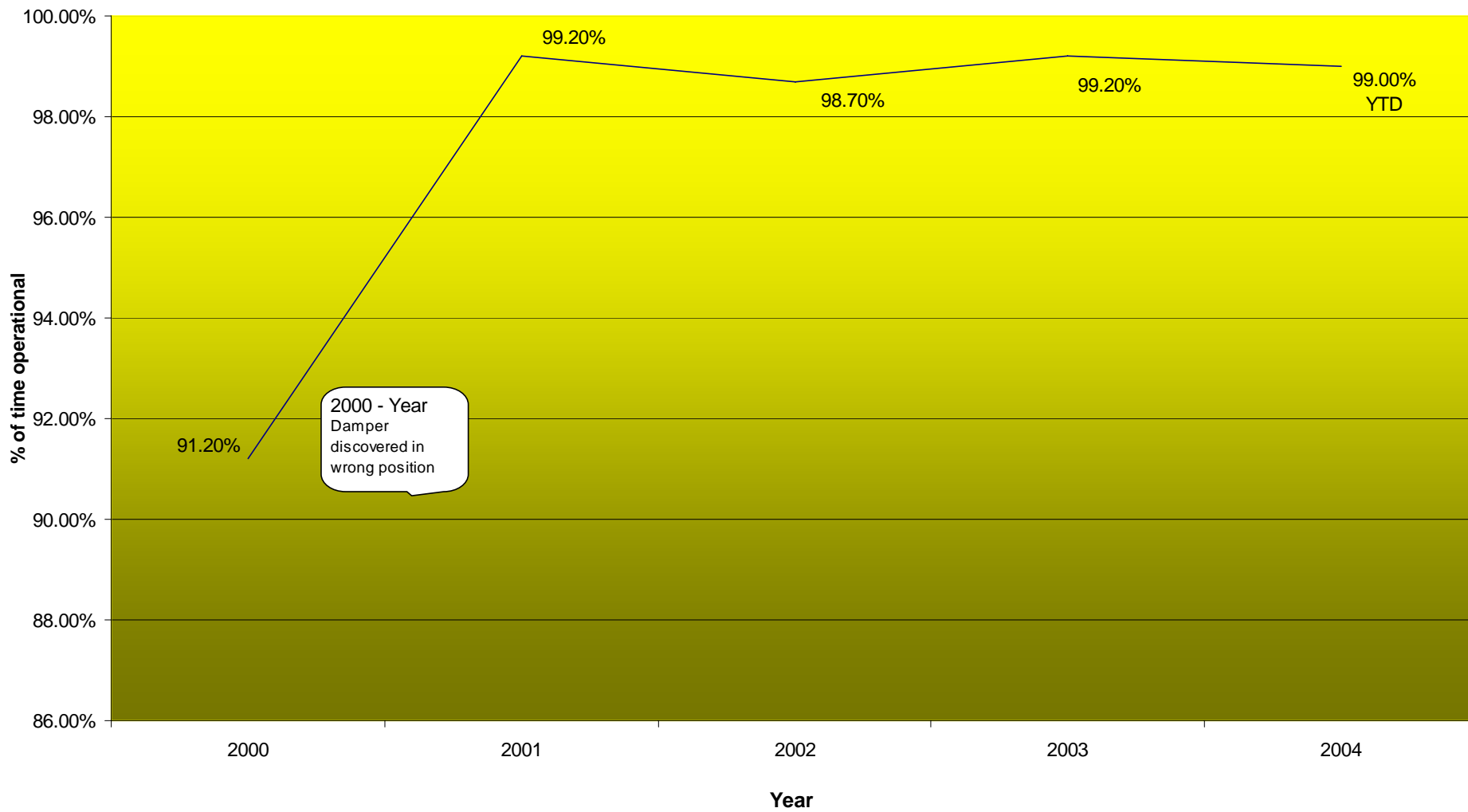
2003 Quarterly Uptime (RTO)

Percent Operational by Quarter	Q1	Q2	Q3	Q4
Fab 7 RTO	97.1%	99.2%	100.0%	99.2%
Fab 11x Fab RTO	99.9%	99.3%	98.9%	100.0%
Fab 11x Bridge RTO	100.0%	98.7%	99.7%	99.4%
Fab 11W RTO	100.0%	97.9%	100.0%	98.3%
Fab 11S RTO	100.0%	98.1%	98.2%	100.0%
Site Percent Operational	99.41%	98.63%	99.37%	99.35%

2004 YTD Quarterly Uptime (RTO)

Percent Operational by Quarter	Q1	Q2	Q3
Fab 7 RTO	100.0%	98.0%	100.0%
Fab 11x Fab RTO	100.0%	95.6%	98.2%
Fab 11x Bridge RTO	99.5%	99.6%	98.1%
Fab 11W RTO	99.5%	97.2%	100.0%
Fab 11S RTO	96.0%	99.99%	100.0%
Site Percent Operational	99.01%	98.09%	99.26%

History of RTO Uptime



2000-2004 YTD Unabated Emissions released by Intel

<u>Year</u>	<u>VOC's</u>	<u>HAP's</u>	<u>Scheduled Downtime</u>	<u>Unscheduled Downtime</u>
	Pounds	Pounds	Hours	Hours
2000	4500	NA	377	2695
2001	1200	NA	252	55
2002	815.5	1.99	360	226
2003	1626	1.35	300	92
2004	2742	0.3	458	50

2003 Scheduled Downtimes

Equipment Involved	Equipment Type	Date of Failure	Total time in bypass (hrs)	Reason for downtime	Estimated VOC emissions (lbs)	Estimated HAPs emissions (lbs)
Fab 7 RTO	RTO	1/20/2003	62.18	Scheduled Downtime	186.5	0
F11S RTO	RTO	5/13/2003	41.3	Scheduled Downtime	183	0
F11W RTO	RTO	6/3/2003	44.07	Scheduled Downtime	187.3	0
Fab 7 RTO	RTO	6/10/2003	18	Scheduled Downtime	52.02	0
F11X FAB RTO	RTO	8/12/2003	19.7	Scheduled Downtime	140.1	0
F11S RTO	RTO	9/9/2003	39.5	Scheduled Downtime	323.3	0
F11X Bridge RTO	RTO	11/11/2003	14.2	Scheduled Downtime	23.4	0
Fab 7 RTO	RTO	12/9/2003	17.6	Scheduled Downtime	6.9	0
F11W RTO	RTO	12/16/2003	35.1	Scheduled Downtime	350.1	0

2003 Un-Scheduled Downtimes

Equipment Involved	Equipment Type	Date of Failure	Total time in bypass (hrs)	Reason for downtime	Estimated VOC emissions (lbs)	Estimated HAPs emissions (lbs)
F11X FAB RTO	RTO	3/6/2003	1.45	Unscheduled Downtime	4.35	0
F11X FAB RTO	RTO	4/8/2003	5.83	Unscheduled Downtime	16.6	0
F11X Bridge RTO	RTO	4/8/2003	20.4	Unscheduled Downtime	47.7	0
F11W RTO	RTO	4/17/2003	1.55	Unscheduled Downtime	6.59	0
F11X Bridge RTO	RTO	4/22/2003	8.78	Unscheduled Downtime	20.5	0
F11X FAB RTO	RTO	4/26/2003	9.7	Unscheduled Downtime	27.6	0
F11W RTO	RTO	7/4/2003	0	Unscheduled Downtime	0.01	0
F11X Bridge RTO	RTO	7/9/2003	6.2	Unscheduled Downtime	14	0
F11X FAB RTO	RTO	7/9/2003	3.5	Unscheduled Downtime	10	0
F11X Bridge RTO	RTO	8/9/2003	1.2	Unscheduled Downtime	3	0
F11W RTO	RTO	10/7/2003	3.4	Unscheduled Downtime	15	0
F11S RTO	RTO	11/30/2003	0.03	Unscheduled Downtime	0.2	0
F11S RTO	RTO	12/3/2003	0.6	Unscheduled Downtime	4.9	0

2003 Un-scheduled Downtimes

Equipment Involved	Equipment Type	Date of Failure	Total time in bypass (hrs)	Reason for downtime	Estimated VOC emissions (lbs)	Estimated HAPs emissions (lbs)
F11S RTO	RTO	12/4/2003	0.4	Unscheduled Downtime	3.3	0
C4 Scrubbers	Scrubber	2/8/2003	1.25	Unscheduled Downtime	0	0
Fab11X Scrubber 11s.1.6	Scrubber	3/13/2003	0.167	Unscheduled Downtime	0	0
F11X Scrubbers	Scrubber	4/8/2003	4.47	Unscheduled Downtime	0	0
C4 Scrubbers	Scrubber	5/9/2003	0.1	Unscheduled Downtime	0	0.0
Fab11X Scrubber 9s.1.2a	Scrubber	7/2/2003	0.23	Unscheduled Downtime	0	0.01
Fab11X Scrubber 9s.1.2b	Scrubber	7/9/2003	0.35	Unscheduled Downtime	0	0.02
Fab11X Scrubber 11s.1.6	Scrubber	7/12/2003	0.62	Unscheduled Downtime	0	0.03
Fab11X Scrubber 9s.1.2b	Scrubber	7/13/2003	0.02	Unscheduled Downtime	0	0
F11N Scrubber 10s.4.2b	Scrubber	8/28/2003	21.38	Unscheduled Downtime	0	1.28
Fab11X Scrubber 9s.1.2a	Scrubber	10/9/2003	0.02	Unscheduled Downtime	0	0.00
Fab11X Scrubber 9s.1.2a	Scrubber	7/29/2003	0.28	Unscheduled Downtime	0	0.01

2004 Scheduled Downtimes

Equipment Involved	Equipment Type	Date of Failure	Total time in bypass (hrs)	Reason for downtime	Estimated VOC emissions (lbs)	Estimated HAPs emissions (lbs)
F11x Scrubber 9s.1.2a	Scrubber	5/24/2004	51.25	Scheduled Downtime	0	0
F11S RTO	RTO	3/9/2004	57.2	Scheduled Downtime	413.2	0
F11S RTO	RTO	3/25/2004	28.4	Scheduled Downtime	205.2	0
F11W RTO	RTO	4/27/2004	62.2	Scheduled Downtime	620.3	0
F11X FAB RTO	RTO	5/4/2004	89.7	Scheduled Downtime	637.8	0
Fab 7 RTO	RTO	5/11/2004	38.8	Scheduled Downtime	15.6	0
F11X Bridge RTO	RTO	9/6/2004	39.75	Scheduled Downtime	66.0	0
F11X FAB RTO	RTO	9/20/2004	39.1	Scheduled Downtime	278	0
F11S RTO	RTO	10/18/2004	43.3	Scheduled Downtime	312.8	0

2004 Un-scheduled Downtimes

Equipment Involved	Equipment Type	Date of Failure	Total time in bypass (hrs)	Reason for downtime	Estimated VOC emissions (lbs)	Estimated HAPs emissions (lbs)
F11N Scrubber 10s.4.2b	Scrubber	2/10/2004	0.75	Unscheduled Downtime	0	0.02
Fab 11N Scrubbers	Scrubber	3/12/2004	0.42	Unscheduled Downtime	0	0.06
F11N Scrubber 10s.4.2b	Scrubber	3/29/2004	1.2	Unscheduled Downtime	0	0.02
F11N Scrubber 10s.4.2b	Scrubber	4/15/2004	0.08	Unscheduled Downtime	0	0
F11N Scrubber 10s.4.2b	Scrubber	4/17/2004	0.13	Unscheduled Downtime	0	0
F11N Scrubber 10s.4.2b	Scrubber	4/30/2004	1.2	Unscheduled Downtime	0	0.02
F11N Scrubber 10s.4.2b	Scrubber	5/14/2004	0.8	Unscheduled Downtime	0	0.02
F11N Scrubber 10s.1.1c	Scrubber	8/27/2004	0.1	Unscheduled Downtime	0	0
F11N Scrubber 10s.4.2b	Scrubber	10/19/2004	2.7	Unscheduled Downtime	0	0.16
F11S RTO	RTO	1/28/2004	0.2	Unscheduled Downtime	1.6	0
F11W RTO	RTO	2/7/2004	10.7	Unscheduled Downtime	106.7	0
F11S RTO	RTO	3/12/2004	0.8	Unscheduled Downtime	5.8	0

2004 Un-scheduled Downtimes

Equipment Involved	Equipment Type	Date of Failure	Total time in bypass (hrs)	Reason for downtime	Estimated VOC emissions (lbs)	Estimated HAPs emissions (lbs)
F11X Bridge RTO	RTO	3/25/2004	10.9	Unscheduled Downtime	18	0
F11X Bridge RTO	RTO	4/8/2004	3.5	Unscheduled Downtime	5.8	0
F11X FAB RTO	RTO	4/8/2004	5.1	Unscheduled Downtime	36.3	0
F11X Bridge RTO	RTO	4/23/2004	4.3	Unscheduled Downtime	7.1	0
F11S RTO	RTO	4/30/2004	0.1	Unscheduled Downtime	0.7	0
F11S RTO	RTO	5/11/2004	0.02	Unscheduled Downtime	0.1	0
Fab 7 RTO	RTO	6/3/2004	3.97	Unscheduled Downtime	1.6	0
F11X FAB RTO	RTO	6/8/2004	0.5	Unscheduled Downtime	3.6	0
F11X Bridge RTO	RTO	8/13/2004	1.3	Unscheduled Downtime	2.1	0
F11X Bridge RTO	RTO	8/20/2004	1.3	Unscheduled Downtime	2.2	0
F11X FAB RTO	RTO	8/21/2004	0.2	Unscheduled Downtime	1.4	0