



Environmental Department - ESG Facility
4653 Table Mountain Drive
Golden, Co 80403-1636

October 30, 2008

Mr. Bob Jorgenson
Air Pollution Control Division
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246-1530

RE: Third Quarter 2008 EER, PSCo Comanche Station Unit 2

Dear Mr. Jorgenson:

Attached is the Third Quarter 2008 Excess Emissions Report (EER) for the Public Service Company of Colorado (PSCo) Comanche Station Unit 2.

Unit 2:

During the quarter there were two events that resulted in an increased number of monitor downtime episodes on the SO₂ and NO_x instruments. In July and August there were instrument failures that the plant worked diligently to correct and ended up requiring the onsite assistance of the instrument's manufacturer to resolve in both instances. Both events were related to failures of electronic components internal to the analyzer. Once the problems were resolved the required follow-up diagnostic testing was completed.

The unit was offline for periods on 8-22-08 to 8-23-08.

Please call me at 720-497-2109 with any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Quinn Kilty'.

Quinn Kilty
Manager, Air & Water Quality

Attachment

cc: Mr. Albion Carlson
Regional CEM Coordinator
U.S. Environmental Protection Agency – Region 8
1595 Wynkoop Street
Denver, CO 80202-1129

CERTIFICATION OF REPORT INTEGRITY

This is to certify that to the best of my knowledge, the information provided in this report is complete and accurate. Anomalous data and information is explained in the cover letter to this report.

Name: Quinn V. Kilty

Signature: 

Title: Manager, Air and Water Quality

Date: 10/27/08

STATE QUARTERLY OPACITY EXCEEDANCE & MONITOR DOWNTIME REPORT

Comanche Unit 2
 FOR QUARTER 3 2008
 DATE 10/21/08

P.S. of Colorado
 Comanche Generating Station
 Pueblo, CO

MONITOR TYPE: OPACITY
 MODEL NO.: 560
 INSTALLATION DATE: 05/08/07

MANUFACTURE: Teledyne Monitor Labs
 SERIAL NO.: 5601329

--- OPAC EXCEEDANCE AND MONITOR DOWNTIME MATRIX (Hours) ---

EXCESS RANGE %	20.0-30.0	30.0-40.0	40.0-50.0	50.0-60.0	>60.0	TOTAL
--EXCESS EMISSIONS REASON--						
*STARTUP/SHUTDOWN	0.00	0.00	0.00	0.00	0.00	0.00
STARTUP/SHUTDOWN	0.00	0.00	0.00	0.00	0.00	0.00
*CLEANING/SOOTBLOWING	0.00	0.00	0.00	0.00	0.00	0.00
CLEANING/SOOTBLOWING	0.00	0.00	0.00	0.00	0.00	0.00
UNKNOWN CAUSES	0.00	0.00	0.00	0.00	0.00	0.00
*CONTROL EQUIP (UPSET)	0.00	0.00	0.00	0.00	0.00	0.00
CONTROL EQUIP (UNACCEPT)	0.00	0.00	0.00	0.00	0.00	0.00
*PROCESS PROBLEMS (UPSET)	0.00	0.00	0.00	0.00	0.00	0.00
PROCESS PROB (UNACCEPT)	0.00	0.00	0.00	0.00	0.00	0.00
FUEL PROBLEMS	0.00	0.00	0.00	0.00	0.00	0.00
OTHERS	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL UNACCEPTABLE EMISSIONS						0.00
% EXCESS EMISSIONS						0.00%

UNIT OPERATING TIME: 2167.13 HR

--MONITOR DOWNTIME REASON--

MONITOR EQUIP. FAILURE	0.00
NON MONITOR FAILURES	8.20
*CALIBRATION (QA)	19.90
UNKNOWN CAUSES	0.00
OTHERS	0.20
TOTAL UNACCEPTABLE DOWNTIME	8.40
% MONITOR DOWNTIME	0.39%

-- Reasons Marked * are not used in the Excess and Downtime computations --

--- EXCEEDANCE AND MONITOR DOWNTIME LOG ---

DATE	TIME	TYPE	CHANNEL	VALUE	DURATION	REASON
07-01	06:00	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-01	06:06	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-02	06:00	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-02	06:06	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-03	06:00	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-03	06:06	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-04	06:00	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-04	06:06	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-05	06:00	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-05	06:06	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-06	06:06	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration.			
07-07	06:06	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration.			
07-08	06:06	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			
07-08	06:12	SYS-DOWN	2 Opc Inst		00:06	*CALIBRATION (QA)
		ACTION:	Daily instrument calibration spans two six minute periods.			

08-25 16:24 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 16:30 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 16:36 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 16:54 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 17:00 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 17:06 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 17:12 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 17:24 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 17:36 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 17:42 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 17:48 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 17:54 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 18:00 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 18:06 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 18:30 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 18:36 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 18:42 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 18:48 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 18:54 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 19:06 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 19:24 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 19:36 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 19:42 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 19:48 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 19:54 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-25 20:30 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Purge air alarm. Changed filters on blowers.
 08-26 06:00 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration spans two six minute periods.
 08-26 06:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration spans two six minute periods.
 08-26 08:48 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Communication failure
 08-27 06:00 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration spans two six minute periods.
 08-27 06:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration spans two six minute periods.
 08-28 06:00 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration spans two six minute periods.
 08-28 06:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration spans two six minute periods.
 08-28 06:42 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument.
 08-28 06:48 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument.
 08-28 06:54 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument.

08-28 09:30 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument.

08-28 09:36 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument.

08-28 09:42 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument.

08-28 09:48 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument.

08-28 09:54 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument.

08-28 10:00 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument.

08-28 10:06 SYS-DOWN 2 Opc Inst 00:06 NON MONITOR FAILURES
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument.

08-28 12:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument. Cal spanned two periods.

08-28 12:12 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Power interruption to stack causing power loss to the opacity monitor.
 Followed by a calibration to check instrument. Cal spanned two periods.

08-29 06:00 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration spans two six minute periods.

08-29 06:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration spans two six minute periods.

08-30 06:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration.

08-31 06:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration.

09-01 06:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration.

09-02 06:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily instrument calibration.

09-03 05:54 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-03 06:00 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-04 05:54 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-04 06:00 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-05 05:54 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-05 06:00 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-06 05:54 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-06 06:00 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-07 05:54 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-07 06:00 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-08 05:12 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-08 05:18 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-08 06:06 SYS-DOWN 2 Opc Inst 00:06 OTHERS (DOWNTIME)
 ACTION: Daily calibration spans two six min periods. Cal not required.

09-08 06:12 SYS-DOWN 2 Opc Inst 00:06 OTHERS (DOWNTIME)
 ACTION: Daily calibration spans two six min periods. Cal not required.

09-09 05:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-09 05:12 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-10 05:06 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-10 05:12 SYS-DOWN 2 Opc Inst 00:06 *CALIBRATION (QA)
 ACTION: Daily calibration spans two six min periods.

09-19	10:54	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Quarterly filter audit.		
09-19	11:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Quarterly filter audit.		
09-20	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily calcs spanning one six min period		
09-21	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-21	05:06	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-22	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-22	05:06	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-23	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-23	05:06	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-24	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-24	05:06	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-25	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-25	05:06	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-26	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-26	05:06	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-27	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-27	05:06	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-28	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-28	05:06	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-29	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-29	05:06	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-30	05:00	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		
09-30	05:06	SYS-DOWN 2 Opc Inst	00:06	*CALIBRATION (QA)
		ACTION: Daily instrument calibration spans 2 6 min periods		

STATE QUARTERLY SO2 EXCEEDANCE & MONITOR DOWNTIME REPORT

Comanche Unit 2
 FOR QUARTER 3 2008
 DATE 10/21/08

P.S. of Colorado
 Comanche Generating Station
 Pueblo, CO

MONITOR TYPE: SO2
 MODEL NO.: MIR9000
 INSTALLATION DATE: 10/11/01

MANUFACTURE: Environment SA
 SERIAL NO.: 1084

--- SO2 EXCEEDANCE AND MONITOR DOWNTIME MATRIX (Hours) ---

EXCESS RANGE	1.20-1.40	1.40-1.60	1.60-1.80	1.80-2.00	>2.00	TOTAL
MM						
--EXCESS EMISSIONS REASON--						
*STARTUP/SHUTDOWN	0.00	0.00	0.00	0.00	0.00	0.00
STARTUP/SHUTDOWN	0.00	0.00	0.00	0.00	0.00	0.00
*CLEANING/SOOTBLOWING	0.00	0.00	0.00	0.00	0.00	0.00
CLEANING/SOOTBLOWING	0.00	0.00	0.00	0.00	0.00	0.00
UNKNOWN CAUSES	0.00	0.00	0.00	0.00	0.00	0.00
*CONTROL EQUIP (UPSET)	0.00	0.00	0.00	0.00	0.00	0.00
CONTROL EQUIP (UNACCEPT)	0.00	0.00	0.00	0.00	0.00	0.00
*PROCESS PROBLEMS (UPSET)	0.00	0.00	0.00	0.00	0.00	0.00
PROCESS PROB (UNACCEPT)	0.00	0.00	0.00	0.00	0.00	0.00
FUEL PROBLEMS	0.00	0.00	0.00	0.00	0.00	0.00
OTHERS	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL UNACCEPTABLE EMISSIONS						0.00%
% EXCESS EMISSIONS						

UNIT OPERATING TIME: 2167.13 HR

--MONITOR DOWNTIME REASON--

MONITOR EQUIP. FAILURE	87.00
NON MONITOR FAILURES	20.00
*CALIBRATION (QA)	10.00
UNKNOWN CAUSES	0.00
OTHERS	6.00
TOTAL UNACCEPTABLE DOWNTIME	113.00
% MONITOR DOWNTIME	5.24%

-- Reasons Marked * are not used in the Excess and Downtime computations --

--- EXCEEDANCE AND MONITOR DOWNTIME LOG ---

DATE	TIME	TYPE	CHANNEL	VALUE	DURATION	REASON
07-07	06:00	SYS-DOWN	2_SO2MMx		01:00	OTHERS (DOWNTIME)
		ACTION:	Failed dailiy calibration.			
07-07	07:00	SYS-DOWN	2_SO2MMx		01:00	OTHERS (DOWNTIME)
		ACTION:	Failed dailiy calibration.			
07-07	13:00	SYS-DOWN	2_SO2MMx		01:00	OTHERS (DOWNTIME)
		ACTION:	Calibration check failure.			
07-09	04:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	05:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	06:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	07:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	08:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	09:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	10:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	11:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	12:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	13:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	14:00	SYS-DOWN	2_SO2MMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			

07-11 05:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 06:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 07:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 08:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 09:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 10:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 11:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 12:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 13:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 14:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 15:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 16:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 17:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 18:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 19:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Instrument in control mode. Troubleshooting to repair alarm status.
 07-11 20:00 SYS-DOWN 2_SO2MMx 01:00 *CALIBRATION (QA)
 ACTION: Abbreviated linearity following daily calibration and instrument repairs.
 07-22 15:00 SYS-DOWN 2_SO2MMx 01:00 *CALIBRATION (QA)
 ACTION: Linearity for SO2 low channel.
 07-23 08:00 SYS-DOWN 2_SO2MMx 01:00 OTHERS (DOWNTIME)
 ACTION: Maintenance activities - changed millex filters and flushed sample lines.
 08-03 10:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Peltier current alarms, made necessary adjustments, and started
 calibration.
 08-03 11:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Peltier current alarms, made necessary adjustments, and started
 calibration.
 08-03 12:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Peltier current alarms, made necessary adjustments, and started
 calibration.
 08-03 13:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Peltier current alarms, made necessary adjustments, and started
 calibration.
 08-03 14:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Peltier current alarms, made necessary adjustments, and started
 calibration.
 08-03 15:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Peltier current alarms, made necessary adjustments, and started
 calibration.
 08-04 08:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Daily instrument calibration failed.
 08-11 07:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Daily instrument calibration failed.
 08-11 14:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Changed IR source, detector and power supply.
 08-11 15:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Changed IR source, detector and power supply.
 08-11 16:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Changed IR source, detector and power supply.
 08-11 17:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Changed IR source, detector and power supply.
 08-11 18:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Changed IR source, detector and power supply.
 08-11 19:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Changed IR source, detector and power supply.
 08-11 20:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Changed IR source, detector and power supply.
 08-11 21:00 SYS-DOWN 2_SO2MMx 01:00 MONITOR EQUIP. FAILURE
 ACTION: Changed IR source, detector and power supply.
 08-11 22:00 SYS-DOWN 2_SO2MMx 01:00 *CALIBRATION (QA)
 ACTION: Linearity following repairs.

08-11	23:00	SYS-DOWN 2_SO2MMx	01:00	*CALIBRATION (QA)
		ACTION: Linearity following repairs.		
08-12	00:00	SYS-DOWN 2_SO2MMx	01:00	*CALIBRATION (QA)
		ACTION: Linearity following repairs.		
08-13	11:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	12:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	13:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	14:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	15:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	16:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	17:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	18:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	19:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	20:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	21:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	22:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	23:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	00:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	01:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	02:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	03:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	04:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	05:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	06:00	SYS-DOWN 2_SO2MMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	07:00	SYS-DOWN 2_SO2MMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	08:00	SYS-DOWN 2_SO2MMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	09:00	SYS-DOWN 2_SO2MMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	10:00	SYS-DOWN 2_SO2MMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	11:00	SYS-DOWN 2_SO2MMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	12:00	SYS-DOWN 2_SO2MMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	13:00	SYS-DOWN 2_SO2MMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	14:00	SYS-DOWN 2_SO2MMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	16:00	SYS-DOWN 2_SO2MMx	01:00	*CALIBRATION (QA)
		ACTION: Instrument Calibration Data. Diagnostic lin.		
08-14	19:00	SYS-DOWN 2_SO2MMx	01:00	*CALIBRATION (QA)
		ACTION: Instrument Calibration Data. Diagnostic lin.		
08-14	20:00	SYS-DOWN 2_SO2MMx	01:00	*CALIBRATION (QA)
		ACTION: Instrument Calibration Data		
08-15	08:00	SYS-DOWN 2_SO2MMx	01:00	OTHERS (DOWNTIME)
		ACTION: Instrument Calibration Data. Lin on NOx channel.		
08-15	09:00	SYS-DOWN 2_SO2MMx	01:00	OTHERS (DOWNTIME)
		ACTION: Instrument Calibration Data. Lin on NOx channel.		
08-23	23:00	SYS-DOWN 2_SO2MMx	01:00	*CALIBRATION (QA)
		ACTION: Instrument Calibration Data		

STATE QUARTERLY NOX EXCEEDANCE & MONITOR DOWNTIME REPORT

Comanche Unit 2
 FOR QUARTER 3 2008
 DATE 10/21/08

P.S. of Colorado
 Comanche Generating Station
 Pueblo, CO

MONITOR TYPE: NOX
 MODEL NO.: MIR9000
 INSTALLATION DATE: 10/11/01

MANUFACTURE: Environment SA
 SERIAL NO.: 1084

--- NOX EXCEEDANCE AND MONITOR DOWNTIME MATRIX (Hours) ---

EXCESS RANGE	0.70-0.80	0.80-0.90	0.90-1.00	1.00-1.10	>1.10	TOTAL
MMbtu						
--EXCESS EMISSIONS REASON--						
*STARTUP/SHUTDOWN	0.00	0.00	0.00	0.00	0.00	0.00
STARTUP/SHUTDOWN	0.00	0.00	0.00	0.00	0.00	0.00
*CLEANING/SOOTBLOWING	0.00	0.00	0.00	0.00	0.00	0.00
CLEANING/SOOTBLOWING	0.00	0.00	0.00	0.00	0.00	0.00
UNKNOWN CAUSES	0.00	0.00	0.00	0.00	0.00	0.00
*CONTROL EQUIP (UPSET)	0.00	0.00	0.00	0.00	0.00	0.00
CONTROL EQUIP (UNACCEPT)	0.00	0.00	0.00	0.00	0.00	0.00
*PROCESS PROBLEMS (UPSET)	0.00	0.00	0.00	0.00	0.00	0.00
PROCESS PROB (UNACCEPT)	0.00	0.00	0.00	0.00	0.00	0.00
FUEL PROBLEMS	0.00	0.00	0.00	0.00	0.00	0.00
OTHERS	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL UNACCEPTABLE EMISSIONS						0.00
% EXCESS EMISSIONS						0.00%

UNIT OPERATING TIME: 2167.13 HR

--MONITOR DOWNTIME REASON--

	TOTAL
MONITOR EQUIP. FAILURE	108.00
NON MONITOR FAILURES	20.00
*CALIBRATION (QA)	8.00
UNKNOWN CAUSES	0.00
OTHERS	4.00
TOTAL UNACCEPTABLE DOWNTIME	132.00
% MONITOR DOWNTIME	6.09%

-- Reasons Marked * are not used in the Excess and Downtime computations --

--- EXCEEDANCE AND MONITOR DOWNTIME LOG ---

DATE	TIME	TYPE	CHANNEL	VALUE	DURATION	REASON
07-07	06:00	SYS-DOWN	2_NOxMMx		01:00	OTHERS (DOWNTIME)
		ACTION:	Failed daliy calibration.			
07-07	07:00	SYS-DOWN	2_NOxMMx		01:00	OTHERS (DOWNTIME)
		ACTION:	Failed daliy calibration.			
07-07	13:00	SYS-DOWN	2_NOxMMx		01:00	OTHERS (DOWNTIME)
		ACTION:	Calibration check failure.			
07-09	04:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	05:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	06:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	07:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	08:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	09:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	10:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	11:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	12:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	13:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			
07-09	14:00	SYS-DOWN	2_NOxMMx		01:00	MONITOR EQUIP. FAILURE
		ACTION:	Instrument in control mode. Troubleshooting to repair alarm status.			

07-11 05:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 06:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 07:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 08:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 09:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 10:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 11:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 12:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 13:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 14:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 15:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 16:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 17:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 18:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Instrument in control mode. Troubleshooting to repair alarm status.

07-11 19:00 SYS-DOWN 2_NOxMMx 01:00 *CALIBRATION (QA)
ACTION: Abbreviated linearity following daily calibration and instrument repairs.

07-11 20:00 SYS-DOWN 2_NOxMMx 01:00 *CALIBRATION (QA)
ACTION: Abbreviated linearity following daily calibration and instrument repairs.

07-22 15:00 SYS-DOWN 2_NOxMMx 01:00 *CALIBRATION (QA)
ACTION: Linearity for SO2 low channel.

07-23 08:00 SYS-DOWN 2_NOxMMx 01:00 OTHERS (DOWNTIME)
ACTION: Maintenance activities - changed milex filters and flushed sample lines.

08-03 10:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Peltier current alarms, made necessary adjustments, and started calibration.

08-03 11:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Peltier current alarms, made necessary adjustments, and started calibration.

08-03 12:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Peltier current alarms, made necessary adjustments, and started calibration.

08-03 13:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Peltier current alarms, made necessary adjustments, and started calibration.

08-03 14:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Peltier current alarms, made necessary adjustments, and started calibration.

08-03 15:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Peltier current alarms, made necessary adjustments, and started calibration.

08-04 08:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Daily instrument calibration failed.

08-09 06:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Daily instrument calibration failed.

08-11 06:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Daily instrument calibration failed.

08-11 07:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Daily instrument calibration failed.

08-11 08:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Daily instrument calibration failed.

08-11 09:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Daily instrument calibration failed.

08-11 14:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Changed IR source, detector and power supply.

08-11 15:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Changed IR source, detector and power supply.

08-11 16:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Changed IR source, detector and power supply.

08-11 17:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Changed IR source, detector and power supply.

08-11 18:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Changed IR source, detector and power supply.

08-11	19:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Changed IR source, detector and power supply.		
08-11	20:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Changed IR source, detector and power supply.		
08-11	21:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Changed IR source, detector and power supply.		
08-11	22:00	SYS-DOWN 2_NOxMMx	01:00	*CALIBRATION (QA)
		ACTION: Linearity following repairs.		
08-11	23:00	SYS-DOWN 2_NOxMMx	01:00	*CALIBRATION (QA)
		ACTION: Linearity following repairs.		
08-12	00:00	SYS-DOWN 2_NOxMMx	01:00	*CALIBRATION (QA)
		ACTION: Linearity following repairs.		
08-13	11:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	12:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	13:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	14:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	15:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	16:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	17:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	18:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	19:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	20:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	21:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	22:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-13	23:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	00:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	01:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	02:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	03:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	04:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	05:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	06:00	SYS-DOWN 2_NOxMMx	01:00	NON MONITOR FAILURES
		ACTION: Changed milex filters and flushed sample lines		
08-14	07:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	08:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	09:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	10:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	11:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	12:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	13:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	14:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Instrument Calibration Data		
08-14	16:00	SYS-DOWN 2_NOxMMx	01:00	*CALIBRATION (QA)
		ACTION: Instrument Calibration Data. Diagnostic lin.		
08-14	19:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Manufacturer performing maintenance. Failed lin.		
08-14	20:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Manufacturer performing maintenance. Failed lin.		
08-14	21:00	SYS-DOWN 2_NOxMMx	01:00	MONITOR EQUIP. FAILURE
		ACTION: Manufacturer performing maintenance. Failed lin.		

08-14 22:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-14 23:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 00:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 01:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 02:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 03:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 04:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 05:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 06:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 07:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 08:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 09:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 10:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-15 11:00 SYS-DOWN 2_NOxMMx 01:00 MONITOR EQUIP. FAILURE
ACTION: Manufacturer performing maintenance. Failed lin.
08-23 23:00 SYS-DOWN 2_NOxMMx 01:00 *CALIBRATION (QA)
ACTION: Instrument Calibration Data

STATE QUARTERLY NOX EXCEEDANCE & MONITOR DOWNTIME REPORT

Comanche Unit 2
 FOR QUARTER 3 2008
 DATE 10/21/08

P.S. of Colorado
 Comanche Generating Station
 Pueblo, CO

MONITOR TYPE: NOX
 MODEL NO.: MIR9000
 INSTALLATION DATE: 10/11/01

MANUFACTURE: Environment SA
 SERIAL NO.: 1084

--- NOX EXCEEDANCE AND MONITOR DOWNTIME MATRIX (Hours) ---

EXCESS RANGE MMbtu	0.20-0.30	0.30-0.40	0.40-0.50	0.50-0.60	>0.60	TOTAL
--EXCESS EMISSIONS REASON--						
*STARTUP/SHUTDOWN	0.00	0.00	0.00	0.00	0.00	0.00
STARTUP/SHUTDOWN	0.00	0.00	0.00	0.00	0.00	0.00
*CLEANING/SOOTBLOWING	0.00	0.00	0.00	0.00	0.00	0.00
CLEANING/SOOTBLOWING	0.00	0.00	0.00	0.00	0.00	0.00
UNKNOWN CAUSES	0.00	0.00	0.00	0.00	0.00	0.00
*CONTROL EQUIP (UPSET)	0.00	0.00	0.00	0.00	0.00	0.00
CONTROL EQUIP (UNACCEPT)	0.00	0.00	0.00	0.00	0.00	0.00
*PROCESS PROBLEMS (UPSET)	0.00	0.00	0.00	0.00	0.00	0.00
PROCESS PROB (UNACCEPT)	0.00	0.00	0.00	0.00	0.00	0.00
FUEL PROBLEMS	0.00	0.00	0.00	0.00	0.00	0.00
OTHERS	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL UNACCEPTABLE EMISSIONS						0.00
% EXCESS EMISSIONS						0.00%

UNIT OPERATING TIME: 2167.13 HR

--MONITOR DOWNTIME REASON--

	TOTAL
MONITOR EQUIP. FAILURE	0.00
NON MONITOR FAILURES	0.00
*CALIBRATION (QA)	0.00
UNKNOWN CAUSES	0.00
OTHERS	0.00
TOTAL UNACCEPTABLE DOWNTIME	0.00
% MONITOR DOWNTIME	0.00%

-- Reasons Marked * are not used in the Excess and Downtime computations --

--- EXCEEDANCE AND MONITOR DOWNTIME LOG ---

DATE | TIME | TYPE | CHANNEL | VALUE | DURATION | REASON

No Episodes found for this Report Period