

Document Control Sheet

Sheet Title:	AIR CP
Box ID:	24873
Control Sheet ID:	0000-0000-0056-7563
Record Series Name:	OCE / Air Compliance
Record Series:	AIR CP
Primary ID:	100542927
Secondary ID:	
Doc Type:	Reports
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Date:	4/27/2022 12:00AM
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Tertiary ID	

NOTICE OF DOCUMENT QUALITY

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**THE QUALITY OF THE FOLLOWING ORIGINAL PAPER
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Some reasons for poor quality:

There are multiple densities per page, different types of ink, faded document, and some documents are different colors. Many of the photographs, charts, graphs, maps are of poor quality.



AIR CP_100 542927-1 -
RP_2022 0427
_Administrative _Certification
_Deviation _Notification Permit
_RATA _Semi Annual _Stack Test

nrg Texas Power LLC
3964 FM 39
Jewett, Texas 75846

Certified Mail – Return Receipt Requested

Mr. Jason Neumann
Air Program Manager
Texas Commission on Environmental Quality
Suite 2500
6801 Sanger Ave.
Waco, Texas 76710

RECEIVED
April 27, 2022
MAY 02 2022
PSEAD

**SUBJECT: LIMESTONE UNIT 1 QUARTERLY REPORT
PERMIT NOS. 8576, PSD-TX-371M5, AND FOP 075
CN603207218; RN100542927; TCEQ Account ID LI-0027-L**

Dear Mr. Neumann:

nrg Texas Power LLC, presents the enclosed information to fulfill the applicable quarterly reporting requirements of 40 CFR 60 and TAC 30 117 for Limestone Station Unit 1 (EPN LMS1) for the first calendar quarter of 2022. Limestone Unit 1 is a 910 nominal MW steam electric generators located in Jewett, Texas. The unit is equipped with an Activated Carbon Injection (ACI) system, a cold-side electrostatic precipitator (ESP) and a wet limestone flue gas desulfurization (FGD) system.

By my signature below, I certify that the information contained in this report is true, accurate and complete to the best of my knowledge.

If you have any questions or require additional information, please do not hesitate to contact Mr. Jason Scott at (903) 626-9762.

Very Respectfully,

Robert Huschak
General Plant Manager

RECEIVED
MAY 09 2022
TCEQ
CENTRAL FILE ROOM

c: **TCEQ Austin Field Office Operations**
Enclosure: LMS Unit 1 Quarterly Report

Section 1

Summary Reports

CEMS Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
 Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0.00 Hours
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1
Pollutant: CO#/HR (CO Emissions in lbs/hr) lbs/hr
Interval: 1 Hour
Limit: 5,980.00

Manufact CO Thermo Electron CO2 Thermo Electron
Model 48i 410i
Cert. 6/29/2021 (Currently in Grace Period)

Causes of CEMS Excess Emissions	Duration of Excess Emissions (Hours)	Percent of Operating Time*
Startup/Shutdown	0.00	0.00
Control Equipment Problems	0.00	0.00
Process Problems	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of excess emission	0.00	0.00

Causes of CEMS Downtime	Duration of Downtime (Hours)	Percent of Operating Time*
Monitor Malfunction	0.00	0.00
Other Malfunction	0.00	0.00
QA Calibration	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of downtime	0.00	0.00

On a separate page, describe any changes since last quarter in CMS, process or controls. By my signature on the cover letter, I certify that the information contained in this report is true, accurate and complete to the best of my knowledge.

CEMS Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0.00 Hours
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L PSD Number: PSD Tx - 371M5

Source: LMS1 Manufacturer: CO Thermo Electron CO2 Thermo Electron
Pollutant: CO#/HR (CO Emissions in lbs/hr) lbs/hr Model Number: 48i 410i
Interval: 24 Hour Cert. Date: 6/29/2021 (Currently in Grace Period)
Limit: 2,990.00

Causes of CEMS Excess Emissions	Duration of Excess Emissions (Hours)	Percent of Operating Time*
Startup/Shutdown	0.00	0.00
Control Equipment Problems	0.00	0.00
Process Problems	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of excess emission	0.00	0.00

Causes of CEMS Downtime	Duration of Downtime (Hours)	Percent of Operating Time*
Monitor Malfunction	0.00	0.00
Other Malfunction	0.00	0.00
QA Calibration	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of downtime	0.00	0.00

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CEMS Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
 Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0.00 Hours
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1
Pollutant: CO#/MMC (CO in lb/mmBtu - Diluent
Interval: 24 Hour
Limit: 0.33

Manufacturer: CO Thermo Electron CO2 Thermo Electron
Model Number: 48i 410i
Cert. Date: 6/29/2021 (Currently in Grace Period)

Causes of CEMS Excess Emissions	Duration of Excess Emissions (Hours)	Percent of Operating Time*
Startup/Shutdown	0.00	0.00
Control Equipment Problems	0.00	0.00
Process Problems	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of excess emission	0.00	0.00

Causes of CEMS Downtime	Duration of Downtime (Hours)	Percent of Operating Time*
Monitor Malfunction	0.00	0.00
Other Malfunction	0.00	0.00
QA Calibration	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of downtime	0.00	0.00

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CEMS Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
 Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0.00 Hours
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1	Manufacturer: NOx Thermo Electron	CO2 Thermo Electron
Pollutant: NOX#/HR (NOx Emissions in lbs/hr) lbs/hr	Model Number: 42i	410i
Interval: 30 Day	Cert. Date: 6/29/2021 (Currently in Grace Period)	
Limit: 2,265.0		

Causes of CEMS Excess Emissions	Duration of Excess Emissions (Hours)	Percent of Operating Time*
Startup/Shutdown	0.00	0.00
Control Equipment Problems	0.00	0.00
Process Problems	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of excess emission	0.00	0.00

Causes of CEMS Downtime	Duration of Downtime (Hours)	Percent of Operating Time*
Monitor Malfunction	0.00	0.00
Other Malfunction	0.00	0.00
QA Calibration	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of downtime	0.00	0.00

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CEMS Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
 Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0.00 Hours
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1
Pollutant: NOX#/MM (NOx Emissions in lb/mmBtu)
Interval: 30 Day
Limit: 0.250

Manufacturer: NOx Thermo Electron CO2 Thermo Electron
Model Number: 42i 410i
Cert. Date: 6/29/2021 (Currently in Grace Period)

Causes of CEMS Excess Emissions	Duration of Excess Emissions (Hours)	Percent of Operating Time*
Startup/Shutdown	0.00	0.00
Control Equipment Problems	0.00	0.00
Process Problems	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of excess emission	0.00	0.00

Causes of CEMS Downtime	Duration of Downtime (Hours)	Percent of Operating Time*
Monitor Malfunction	0.00	0.00
Other Malfunction	0.00	0.00
QA Calibration	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of downtime	0.00	0.00

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Opacity Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0 Minutes
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1
Pollutant: EXITOPAC percent
Interval: 6 Minute
Standard Limit: 15.5

Manufacturer: Monitor Labs Lighthawk Monitor Labs Lighthawk
Model Number: 560DI 560DI
Cert. Date: 6/10/2021 (Currently in Grace Period)

Causes of COMS Excess Emissions	Duration of Excess Emissions (Minutes)	Percent of Operating Time
Startup/Shutdown	0	0.00
Control Equipment Problems	0	0.00
Process Problems	0	0.00
Other Known Cause	0	0.00
Total duration of excess emission	0	0.00

Causes of COMS Downtime	Duration of Downtime (Minutes)	Percent of Operating Time
Monitor Malfunction	0	0.00
Other Malfunction	0	0.00
QA Calibration	0	0.00
Other Known Cause	0	0.00
Total duration of downtime	0	0.00

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Opacity Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0 Minutes
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1
Pollutant: EXOPAC20 percent
Interval: 6 Minute
Standard Limit: 20

Manufacturer: Monitor Labs Lighthawk Monitor Labs Lighthawk
Model Number: 560DI 560DI
Cert. Date: 6/10/2021 (Currently in Grace Period)

Causes of COMS Excess Emissions	Duration of Excess Emissions (Minutes)	Percent of Operating Time
Control Equipment Problems	0	0.00
Unknown Cause	0	0.00
Process Problems	0	0.00
Other Known Cause	0	0.00
Total duration of excess emission	0	0.00

Causes of COMS Downtime	Duration of Downtime (Minutes)	Percent of Operating Time
Monitor Malfunction	0	0.00
Unknown Cause	0	0.00
QA Calibration	0	0.00
Other Known Cause	0	0.00
Other Malfunction	0	0.00
Total duration of downtime	0	0.00

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CEMS Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
 Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0.00 Hours
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1	Manufacturer: SO2 Thermo Electron	CO2 Thermo Electron
Pollutant: SO2#/HR (SO2 Emissions in lbs/hr) lbs/hr	Model Number: 43i	410i
Interval: 3 Hour	Cert. Date: 6/29/2021 (Currently in Grace Period)	
Limit: 9,000.0		

Causes of CEMS Excess Emissions	Duration of Excess Emissions (Hours)	Percent of Operating Time*
Startup/Shutdown	0.00	0.00
Control Equipment Problems	0.00	0.00
Process Problems	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of excess emission	0.00	0.00

Causes of CEMS Downtime	Duration of Downtime (Hours)	Percent of Operating Time*
Monitor Malfunction	0.00	0.00
Other Malfuction	0.00	0.00
QA Calibration	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of downtime	0.00	0.00

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CEMS Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
 Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0.00 Hours
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1 **Manufacturer:** SO2 Thermo Electron CO2 Thermo Electron
Pollutant: SO2#/HR (SO2 Emissions in lbs/hr) lbs/hr **Model Number:** 43i 410i
Interval: 24 Hour **Cert. Date:** 6/29/2021 (Currently in Grace Period)
Limit: 6,479.0

Causes of CEMS Excess Emissions	Duration of Excess Emissions (Hours)	Percent of Operating Time*
Startup/Shutdown	0.00	0.00
Control Equipment Problems	0.00	0.00
Process Problems	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of excess emission	0.00	0.00

Causes of CEMS Downtime	Duration of Downtime (Hours)	Percent of Operating Time*
Monitor Malfunction	0.00	0.00
Other Malfunction	0.00	0.00
QA Calibration	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of downtime	0.00	0.00

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CEMS Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
 Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0.00 Hours
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1
Pollutant: SO2#/MM (SO2 Emissions in lb/mmBtu)
Interval: 30 Day
Limit: 0.600

Manufacturer: SO2 Thermo Electron CO2 Thermo Electron
Model Number: 43i 410i
Cert. Date: 6/29/2021 (Currently in Grace Period)

Causes of CEMS Excess Emissions	Duration of Excess Emissions (Hours)	Percent of Operating Time*
Startup/Shutdown	0.00	0.00
Control Equipment Problems	0.00	0.00
Process Problems	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of excess emission	0.00	0.00

Causes of CEMS Downtime	Duration of Downtime (Hours)	Percent of Operating Time*
Monitor Malfunction	0.00	0.00
Other Malfunction	0.00	0.00
QA Calibration	0.00	0.00
Other Known Cause	0.00	0.00
Unknown Cause	0.00	0.00
Total duration of downtime	0.00	0.00

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CEMS Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
 Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0.00 Hours
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1
Pollutant: HG LBHR
Interval: 1 Hour
Limit: 0.4 lb/hr

Manufacturer: Tekran
Model Number: 3300 XI
Cert. Date: 6/07/2021 (Currently in Grace Period)

Causes of CEMS Excess Emissions	Duration of Excess Emissions (Hours)	Percent of Operating Time*
Control Equipment Problems	0.00	0.00
Unknown Cause	0.00	0.00
Process Problems	0.00	0.00
Startup/Shutdown	0.00	0.00
Other Known Cause	0.00	0.00
Total duration of excess emission	0.00	0.00

Causes of CEMS Downtime	Duration of Downtime (Hours)	Percent of Operating Time*
Monitor Malfunction	0.00	0.00
Unknown Cause	0.00	0.00
QA Calibration	0.00	0.00
Other Known Cause	0.00	0.00
Other Malfunction	0.00	0.00
Total duration of downtime	0.00	0.00

On a separate page, describe any changes since last quarter in CMS, process or controls. By my signature on the cover letter, I certify that the information contained in this report is true, accurate and complete to the best of my knowledge.

CEMS Performance Summary

Company: LIMESTONE
Address: 9 mi North of Jewett, TX on FM 39
 Jewett, TX 75846

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59
Total Source Time in Report Period: 0.00 Hours
Time Online Criteria: 1 Minute(s)

TCEQ Number: LI0027L **PSD Number:** PSD Tx - 371M5

Source: LMS1
Pollutant: HG LB/TBTU (Hg 30D Total Emission Rate)
Interval: 30 Day
Limit: 4.000

Manufacturer: Tekran
Model Number: 3300 XI
Cert. Date: 6/07/2021 (Currently in Grace Period)

**Note: Compliance is based on emissions averaging. Applicable Limestone units: LMS1, LMS2*

Causes of CEMS Excess Emissions	Duration of Excess Emissions (Hours)	Percent of Operating Time*
Control Equipment Problems	0.00	0.00
Unknown Cause	0.00	0.00
Process Problems	0.00	0.00
Startup/Shutdown	0.00	0.00
Other Known Cause	0.00	0.00
Total duration of excess emission	0.00	0.00

Causes of CEMS Downtime	Duration of Downtime (Hours)	Percent of Operating Time*
Monitor Malfunction	0.00	0.00
Unknown Cause	0.00	0.00
QA Calibration	0.00	0.00
Other Known Cause	0.00	0.00
Other Malfuction	0.00	0.00
Total duration of downtime	0.00	0.00

On a separate page, describe any changes since last quarter in CMS, process or controls. By my signature on the cover letter, I certify that the information contained in this report is true, accurate and complete to the best of my knowledge.

Section 2
30 Day Rolling Average Report

30 Day Rolling Average Detail

Plant: LIMESTONE
Operating Day Criteria = 24 hours
Report Period: 01/01/2022 Through 03/31/2022

Source: LMS1
Parameter: NOX#/MM

Standard Limit: 0.25

Date	Daily			30 - Day		
	Operating Hours	Valid Hours	Average	Valid Days	Valid Hours	Average
01/01/22			F			F
01/02/22			F			F
01/03/22			F			F
01/04/22			F			F
01/05/22			F			F
01/06/22			F			F
01/07/22			F			F
01/08/22			F			F
01/09/22			F			F
01/10/22			F			F
01/11/22			F			F
01/12/22			F			F
01/13/22			F			F
01/14/22			F			F
01/15/22			F			F
01/16/22			F			F
01/17/22			F			F
01/18/22			F			F
01/19/22			F			F
01/20/22			F			F
01/21/22			F			F
01/22/22			F			F
01/23/22			F			F
01/24/22			F			F
01/25/22			F			F
01/26/22			F			F
01/27/22			F			F
01/28/22			F			F
01/29/22			F			F
01/30/22			F			F
01/31/22			F			F
02/01/22			F			F
02/02/22			F			F
02/03/22			F			F
02/04/22			F			F
02/05/22			F			F
02/06/22			F			F
02/07/22			F			F
02/08/22			F			F
02/09/22			F			F
02/10/22			F			F

F = Unit Offline

I = Invalid

Report Generated: 04/04/22 15:45

E = Exceedance

Report Version 4.0

LMSSV01\\reportuser

30 Day Rolling Average Detail

Plant: LIMESTONE

Operating Day Criteria = 24 hours

Report Period: 01/01/2022 Through 03/31/2022

02/11/22	F	F
02/12/22	F	F
02/13/22	F	F
02/14/22	F	F
02/15/22	F	F
02/16/22	F	F
02/17/22	F	F
02/18/22	F	F
02/19/22	F	F
02/20/22	F	F
02/21/22	F	F
02/22/22	F	F
02/23/22	F	F
02/24/22	F	F
02/25/22	F	F
02/26/22	F	F
02/27/22	F	F
02/28/22	F	F
03/01/22	F	F
03/02/22	F	F
03/03/22	F	F
03/04/22	F	F
03/05/22	F	F
03/06/22	F	F
03/07/22	F	F
03/08/22	F	F
03/09/22	F	F
03/10/22	F	F
03/11/22	F	F
03/12/22	F	F
03/13/22	F	F
03/14/22	F	F
03/15/22	F	F
03/16/22	F	F
03/17/22	F	F
03/18/22	F	F
03/19/22	F	F
03/20/22	F	F
03/21/22	F	F
03/22/22	F	F
03/23/22	F	F
03/24/22	F	F
03/25/22	F	F
03/26/22	F	F
03/27/22	F	F

F = Unit Offline

I = Invalid

Report Generated: 04/04/22 15:45

E = Exceedance

Report Version 4.0

LMSSV01\\reportuser

30 Day Rolling Average Detail

Plant: LIMESTONE

Operating Day Criteria = 24 hours

Report Period: 01/01/2022 Through 03/31/2022

03/28/22	F	F
03/29/22	F	F
03/30/22	F	F
03/31/22	F	F

F = Unit Offline

I = Invalid

Report Generated: 04/04/22 15:45

E = Exceedance

Report Version 4.0
LMSSV01\reportuser

3 of 3

30 Day Rolling Average Detail

Plant: LIMESTONE
Operating Day Criteria = 24 hours
Report Period: 01/01/2022 Through 03/31/2022

Source: LMS1
Parameter: SO2EFF

Standard Limit:
Low Limit: 70

Date	Daily			30 - Day		
	Operating Hours	Valid Hours	Average	Valid Days	Valid Hours	Average
01/01/22			F			F
01/02/22			F			F
01/03/22			F			F
01/04/22			F			F
01/05/22			F			F
01/06/22			F			F
01/07/22			F			F
01/08/22			F			F
01/09/22			F			F
01/10/22			F			F
01/11/22			F			F
01/12/22			F			F
01/13/22			F			F
01/14/22			F			F
01/15/22			F			F
01/16/22			F			F
01/17/22			F			F
01/18/22			F			F
01/19/22			F			F
01/20/22			F			F
01/21/22			F			F
01/22/22			F			F
01/23/22			F			F
01/24/22			F			F
01/25/22			F			F
01/26/22			F			F
01/27/22			F			F
01/28/22			F			F
01/29/22			F			F
01/30/22			F			F
01/31/22			F			F
02/01/22			F			F
02/02/22			F			F
02/03/22			F			F
02/04/22			F			F
02/05/22			F			F
02/06/22			F			F
02/07/22			F			F
02/08/22			F			F
02/09/22			F			F
02/10/22			F			F

F = Unit Offline

I = Invalid

Report Generated: 04/04/22 15:46

E = Exceedance

Report Version 4.0

LMSSV01\reportuser

30 Day Rolling Average Detail

Plant: LIMESTONE

Operating Day Criteria = 24 hours

Report Period: 01/01/2022 Through 03/31/2022

02/11/22	F	F
02/12/22	F	F
02/13/22	F	F
02/14/22	F	F
02/15/22	F	F
02/16/22	F	F
02/17/22	F	F
02/18/22	F	F
02/19/22	F	F
02/20/22	F	F
02/21/22	F	F
02/22/22	F	F
02/23/22	F	F
02/24/22	F	F
02/25/22	F	F
02/26/22	F	F
02/27/22	F	F
02/28/22	F	F
03/01/22	F	F
03/02/22	F	F
03/03/22	F	F
03/04/22	F	F
03/05/22	F	F
03/06/22	F	F
03/07/22	F	F
03/08/22	F	F
03/09/22	F	F
03/10/22	F	F
03/11/22	F	F
03/12/22	F	F
03/13/22	F	F
03/14/22	F	F
03/15/22	F	F
03/16/22	F	F
03/17/22	F	F
03/18/22	F	F
03/19/22	F	F
03/20/22	F	F
03/21/22	F	F
03/22/22	F	F
03/23/22	F	F
03/24/22	F	F
03/25/22	F	F
03/26/22	F	F
03/27/22	F	F

F = Unit Offline

I = Invalid

Report Generated: 04/04/22 15:46

E = Exceedance

Report Version 4.0

LMSSV01\\reportuser

2 of 3

30 Day Rolling Average Detail

Plant: LIMESTONE

Operating Day Criteria = 24 hours

Report Period: 01/01/2022 Through 03/31/2022

03/28/22	03/28/22	F	03/28/22	F
03/29/22	03/29/22	F	03/29/22	F
03/30/22	03/30/22	F	03/30/22	F
03/31/22	03/31/22	F	03/31/22	F

F = Unit Offline

I = Invalid

Report Generated: 04/04/22 15:46

E = Exceedance

Report Version 4.0

LMSSV01\\reportuser

3 of 3

30 Day Rolling Average Detail

Plant: LIMESTONE

Operating Day Criteria = 24 hours

Report Period: 01/01/2022 Through 03/31/2022

Source: LMS1

Standard Limit: 0.6

Parameter: SO2#/MM

Date	Daily			30 - Day		
	Operating Hours	Valid Hours	Average	Valid Days	Valid Hours	Average
01/01/22			F			F
01/02/22			F			F
01/03/22			F			F
01/04/22			F			F
01/05/22			F			F
01/06/22			F			F
01/07/22			F			F
01/08/22			F			F
01/09/22			F			F
01/10/22			F			F
01/11/22			F			F
01/12/22			F			F
01/13/22			F			F
01/14/22			F			F
01/15/22			F			F
01/16/22			F			F
01/17/22			F			F
01/18/22			F			F
01/19/22			F			F
01/20/22			F			F
01/21/22			F			F
01/22/22			F			F
01/23/22			F			F
01/24/22			F			F
01/25/22			F			F
01/26/22			F			F
01/27/22			F			F
01/28/22			F			F
01/29/22			F			F
01/30/22			F			F
01/31/22			F			F
02/01/22			F			F
02/02/22			F			F
02/03/22			F			F
02/04/22			F			F
02/05/22			F			F
02/06/22			F			F
02/07/22			F			F
02/08/22			F			F
02/09/22			F			F
02/10/22			F			F

F = Unit Offline

E = Exceedance

I = Invalid

Report Version 4.0

Report Generated: 04/04/22 15:47

LMSSV01\reportuser

1 of 3

30 Day Rolling Average Detail

Plant: LIMESTONE

Operating Day Criteria = 24 hours

Report Period: 01/01/2022 Through 03/31/2022

02/11/22	F	F
02/12/22	F	F
02/13/22	F	F
02/14/22	F	F
02/15/22	F	F
02/16/22	F	F
02/17/22	F	F
02/18/22	F	F
02/19/22	F	F
02/20/22	F	F
02/21/22	F	F
02/22/22	F	F
02/23/22	F	F
02/24/22	F	F
02/25/22	F	F
02/26/22	F	F
02/27/22	F	F
02/28/22	F	F
03/01/22	F	F
03/02/22	F	F
03/03/22	F	F
03/04/22	F	F
03/05/22	F	F
03/06/22	F	F
03/07/22	F	F
03/08/22	F	F
03/09/22	F	F
03/10/22	F	F
03/11/22	F	F
03/12/22	F	F
03/13/22	F	F
03/14/22	F	F
03/15/22	F	F
03/16/22	F	F
03/17/22	F	F
03/18/22	F	F
03/19/22	F	F
03/20/22	F	F
03/21/22	F	F
03/22/22	F	F
03/23/22	F	F
03/24/22	F	F
03/25/22	F	F
03/26/22	F	F
03/27/22	F	F

F = Unit Offline

I = Invalid

Report Generated: 04/04/22 15:47

E = Exceedance

Report Version 4.0

LMSSV01\\reportuser

30 Day Rolling Average Detail

Plant: LIMESTONE

Operating Day Criteria = 24 hours

Report Period: 01/01/2022 Through 03/31/2022

03/28/22		F		F
03/29/22		F		F
03/30/22		F		F
03/31/22		F		F

F = Unit Offline

I = Invalid

Report Generated: 04/04/22 15:47

E = Exceedance

Report Version 4.0

LMSSV01\\reportuser

3 of 3

Section 3

Excluded Data

Exception Events - Missing

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Exception Events found during the report period for:

Source(s): LMS1

Parameter(s): NOX#/MM

Interval: 030D

* Indicates duration incident could have additional data prior to the start date or following the end date.

Report Version 4.0

Report Generated: 04/07/22 08:30

LMSSV01\\reportuser

Exception Events - Missing

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Exception Events found during the report period for:

Source(s): LMS1

Parameter(s): SO2#/MM

Interval: 030D

* Indicates duration incident could have additional data prior to the start date or following the end date.

Report Version 4.0

Report Generated: 04/07/22 08:28

LMSSV01\reportuser

Section 4

Insufficient Data

Insufficient Data

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Insufficient Data found during the report period for:

Source (s): LMS1

Parameter(s):

Interval:

Reason Code(s):

Limit:

Section 5

Analyzer Downtime Report

Downtime Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Downtime found during the report period for:

Source (s): LMS1

Parameter(s): CO#/HR

Interval: 1 Hour

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 17, 21, 22, 23, 26, 29, 31, 33, 90

* Indicates duration incident could have additional data prior to the start date or following the end date.

Downtime Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Downtime found during the report period for:

Source (s): LMS1

Parameter(s): CO#/MMC

Interval: 1 Hour

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 17, 21, 22, 23, 26, 29, 31, 33, 90

* Indicates duration incident could have additional data prior to the start date or following the end date.

Report Version 4.0

Report Generated: 04/02/22 18:03

LMSSV01\reportuser

Downtime Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Downtime found during the report period for:

Source (s): LMS1

Parameter(s): NOX#/HR

Interval: 1 Hour

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 17, 21, 22, 23, 26, 29, 31, 33, 90

* Indicates duration incident could have additional data prior to the start date or following the end date.

Downtime Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Downtime found during the report period for:

Source (s): LMS1
Parameter(s): NOX#/MM
Interval: 1 Hour
Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 17, 21, 22, 23, 26, 29, 31, 33, 90

* Indicates duration incident could have additional data prior to the start date or following the end date.

Opacity Downtime Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Downtime found during the report period for:

Source (s): LMS1

Parameter(s): EXITOPAC

Interval: 6 Minute

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 16, 17, 21, 22, 23, 26, 29, 31, 33, 39, 40, 42, 43, 45, 48, 49, 50, 51, 61, 65, 66, 67, 71, 72, 73, 77, 78, 81, 82, 83, 85, 90, 91, 92, 97, 98, 99

* Indicates duration incident could have additional data prior to the start date or following the end date.

Report Version 4.0

Report Generated: 04/02/22 18:52

LMSSV01\\reportuser

Opacity Downtime Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Downtime found during the report period for:

Source (s): LMS1

Parameter(s): EXOPAC20

Interval: 6 Minute

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 16, 17, 21, 22, 23, 26, 29, 31, 33, 39, 40, 42, 43, 45, 48, 49, 50, 51, 61, 65, 66, 67, 71, 72, 73, 77, 78, 81, 82, 83, 85, 90, 91, 92, 97, 98, 99

* Indicates duration incident could have additional data prior to the start date or following the end date.

Report Version 4.0

Report Generated: 04/02/22 18:54

LMSSV01\\reportuser

Downtime Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Downtime found during the report period for:

Source (s): LMS1

Parameter(s): SO2#/HR

Interval: 1 Hour

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 17, 21, 22, 23, 26, 29, 31, 33, 90

* Indicates duration incident could have additional data prior to the start date or following the end date.

Report Version 4.0

Report Generated: 04/02/22 18:10

LMSSV01\reportuser

Downtime Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Downtime found during the report period for:

Source (s): LMS1

Parameter(s): SO2#/MM

Interval: 1 Hour

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 17, 21, 22, 23, 26, 29, 31, 33, 90

* Indicates duration incident could have additional data prior to the start date or following the end date.

Report Version 4.0

Report Generated: 04/02/22 18:40

LMSSV01\reportuser

Downtime Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Downtime found during the report period for:

Source (s): LMS1

Parameter(s): HGT

Interval: 1 Hour

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 16, 17, 21, 22, 23, 26, 29, 31, 33, 39, 40, 42, 43, 45, 46, 47, 48, 49, 50, 51, 61, 65, 66, 67, 71, 72, 73, 75, 76, 77, 78, 79, 81, 82, 83, 85, 90, 91, 92, 97, 98, 99

* Indicates duration incident could have additional data prior to the start date or following the end date.

Report Version 4.0

Report Generated: 04/02/22 18:48

LMSSV01\\reportuser

Downtime Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Downtime found during the report period for:

Source (s): LMS1

Parameter(s): HG LB/TBTU

Interval: 1 Hour

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 16, 17, 21, 22, 23, 26, 29, 31, 33, 39, 40, 42, 43, 45, 46, 47, 48, 49, 50, 51, 61, 65, 66, 67, 71, 72, 73, 75, 76, 77, 78, 79, 81, 82, 83, 85, 90, 91, 92, 97, 98, 99

* Indicates duration incident could have additional data prior to the start date or following the end date.

Report Version 4.0

Report Generated: 04/02/22 18:44

LMSSV01\reportuser

Section 6

Excess Emissions Report

Exceedance Events

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): CO#/HR

Interval: 001H

Reason Code(s): 00, 16, 39, 40, 42, 43, 46, 47, 48, 61, 65, 66, 67, 71, 72, 73, 81, 82, 83, 85, 91, 92, 97, 98, 99

Limit: 5980 #/HR

Exceedance Events

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): CO#/HR

Interval: 024H

Reason Code(s): 00, 16, 39, 40, 42, 43, 46, 47, 48, 61, 65, 66, 67, 71, 72, 73, 81, 82, 83, 85, 91, 92, 97, 98, 99

Limit: 2990 #/HR

Exceedance Events

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): CO#/MMC

Interval: 024H

Reason Code(s): 00, 16, 39, 40, 42, 43, 46, 47, 48, 61, 65, 66, 67, 71, 72, 73, 81, 82, 83, 85, 91, 92, 97, 98, 99

Limit: 0.33 #/MM

Exceedance Events

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): NOX#/HR

Interval: 030D

Reason Code(s): 00, 16, 39, 40, 42, 43, 46, 47, 48, 61, 65, 66, 67, 71, 72, 73, 81, 82, 83, 85, 91, 92, 97, 98, 99

Limit: 2265 #/HR

Exceedance Events

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): NOX#/MM

Interval: 030D

Reason Code(s): 00, 16, 39, 40, 42, 43, 46, 47, 48, 61, 65, 66, 67, 71, 72, 73, 81, 82, 83, 85, 91, 92, 97, 98, 99

Limit: 0.25 #/MM

Opacity Exceedance Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): EXITOPAC

Interval: 6 Minutes

Reason Code(s): 00,16,39,40,42,43,46,47,48,61,65,66,67,71,72,73,81,82,83,85,91,92,97,98,99

Limit: 15.50%

* Indicates duration incident could have additional data prior to the start date or following the end date.

Report Version 6.11

Report Generated: 04/05/22 14:37

LMSSV01\\reportuser

Opacity Exceedance Events - Duration

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): EXOPAC20

Interval: 6 Minutes

Reason Code(s): 00,01,02,03,04,06,07,08,11,12,13,14,16,17,21,22,23,26,29,31,33,39,40,42,43,45,46,47,48,49,50,51,61,65,66,67,71,72,73,77,78,81,82,83,85,90,91,92,97,98,99

Limit: 20%

* Indicates duration incident could have additional data prior to the start date or following the end date.

Exceedance Events

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s):	LMS1
Parameter(s):	SO2#/HR
Interval:	003H
Reason Code(s):	00, 16, 39, 40, 42, 43, 46, 47, 48, 61, 65, 66, 67, 71, 72, 73, 81, 82, 83, 85, 91, 92, 97, 98, 99
Limit:	9000 #/HR

Exceedance Events

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): SO2#/HR

Interval: 024H

Reason Code(s): 00, 16, 39, 40, 42, 43, 46, 47, 48, 61, 65, 66, 67, 71, 72, 73, 81, 82, 83, 85, 91, 92, 97, 98, 99

Limit: 6479 #/HR

Exceedance Events

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): SO2#/MM

Interval: 030D

Reason Code(s): 00, 16, 39, 40, 42, 43, 46, 47, 48, 61, 65, 66, 67, 71, 72, 73, 81, 82, 83, 85, 91, 92, 97, 98, 99

Limit: 0.6 #/MM

Exceedance Events

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): HGLB/HR

Interval: 001H

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 16, 17, 21, 22, 23, 26, 29, 31, 33, 39, 40, 42, 43, 45, 46, 47, 48, 49, 50, 51, 61, 65, 66, 67, 71, 72, 73, 75, 76, 77, 78, 79, 81, 82, 83, 85, 90, 91, 92, 97, 98, 99

Limit: 0.4 #/HR

Exceedance Events

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Time Online Criteria: 1 minute(s)

No Excess Emissions found during the report period for:

Source (s): LMS1

Parameter(s): HGTLB/T

Interval: 030D

Reason Code(s): 00, 01, 02, 03, 04, 06, 07, 08, 11, 12, 13, 14, 16, 17, 21, 22, 23, 26, 29, 31, 33, 39, 40, 42, 43, 45, 46, 47, 48, 49, 50, 51, 61, 65, 66, 67, 71, 72, 73, 75, 76, 77, 78, 79, 81, 82, 83, 85, 90, 91, 92, 97, 98, 99

Limit: 4.0 #/TBTU

Section 7
F-Factor Explanation Report

**NRG Texas Power LLC Limestone Generating Station Unit 1 Limestone County, Texas
Quarterly Environmental Log ending Page 1**

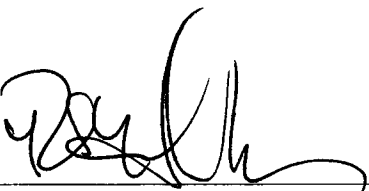
F-Factor Explanation

The primary gaseous monitoring system at Limestone Unit 1 is an extractive dilution type that analyzes gaseous constituents on a wet basis. A carbon dioxide analyzer monitors the diluent concentration for this system to convert gaseous concentrations to emission factors and to correct gaseous concentrations to a consistent basis. NRG Texas Power LLC utilizes the carbon dioxide/wet basis combustion equation provided in Method 19 of Appendix A in 40 CFR 60. In order to calculate the correct F-factor, NRG Texas Power LLC uses the subbituminous factor of 1,840 for all periods with any solid fuel combustion, due to the minimal amount of gas used in the system, the lack of fuel flow signals to the system, and the conservative nature of this estimate. However, during periods of startup and shutdown when only natural gas is being combusted, NRG Texas Power LLC uses the natural gas factor of 1040 to perform the calculations.

Section 8
Signed Statement Report

Signed Statements

In fulfillment of 40 CFR 60.51a (f), this statement certifies that, during periods in which emission data was not available for Limestone Unit 1 for the first calendar quarter of 2022, no changes were made in the operation of the air emission control systems with the intent to circumvent the applicable emission standards.

A handwritten signature in black ink, appearing to read 'R. Huschak', is written over a horizontal line.

Robert Huschak, General Plant Manager
Limestone Electric Generating Station

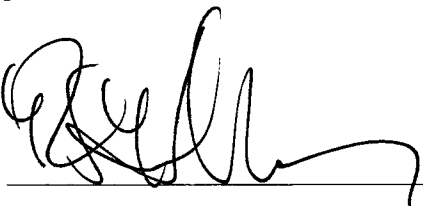
In fulfillment of 40 CFR 60.51a (h), this statement certifies that during the first calendar quarter of 2022:

1) the data, used to show that Limestone Unit 1 was in compliance with the applicable standards, was obtained in accordance with approved methods and procedures of 40 CFR 60 and is representative of plant performance.

2) compliance with all regulations was achieved.

3) the required calibrations, span and drift checks were performed on the continuous emission monitoring system dedicated to Limestone Unit 1 as specified in the applicable regulations.

4) the minimum data requirements have been met.

A handwritten signature in black ink, appearing to read 'R. Huschak', is written over a horizontal line.

Robert Huschak, General Plant Manager
Limestone Electric Generating Station

Section 9

Calibration Detail

Calibration Detail

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Source: LMS1

End Date / Time	Zero Level			Span Level			Results			On-Line	Protocol Gas Details				
	Reference Value	Actual Response	Cal Error	Reference Value	Actual Response	Cal Error	Cal Limit	Error Method	Pass/Fail		Gas Type Code	Cylinder Value	Vendor ID	Cylinder ID	Expire Date

No Daily Calibration Records Found

No Quarterly Type Calibration Records Found

Analyzer Range Evaluation

Plant: LMS

Source: LMS1

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Parameter/Range Effective Date			0% or Below	Below 20%	20 % to 80%	Above 80%	100% or Above
Range	Total Hours	Valid Hours	Hours (%)	Hours (%)	Hours (%)	Hours (%)	Hours (%)
LMS1:CO2 01/01/1995 00:00							
20	0	0	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
LMS1:FLOWSCFH 01/01/1995 00:00							
240000000	0	0	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
LMS1:HGT 08/17/2016 22:00							
10	0	0	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
LMS1:NOXPPM 01/01/1995 00:00							
400	0	0	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
LMS1:SO2PPM 01/01/1995 00:00							
400	0	0	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
4000	0	0	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)

Cylinder Gas Audit

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Source: LMS1

No Linearity/CGA Tests found for selected date range.

Section 10
Quarterly Audit Report

Linearity Test

Plant: LIMESTONE

Report Period: 01/01/2022 00:00 Through 03/31/2022 23:59

Source: LMS1

No Linearities found for date range selected.

Section 11

Opacity Procedure 3

*Quarterly Opacity Procedure 3 was not performed in this Quarter
No Opacity Procedure 3 Report included – Currently in Grace Period

Section 12
Annual RATA Audit Report

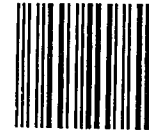
***Annual RATA was not performed in this Quarter – no RATA Report included
Currently in Grace Period**



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