

DOCKETED

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Project Title:	COMPLIANCE-Luz Solar Electric Generating System Cogeneration AFC (150 MW) Units III-VII.
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Document Title:	SEGS III VII Fourth Quarter Emissions Reeport
Description:	Quarterly Emissions Report
Filer:	Glen T King
Organization:	NextEra Energy
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NextEra Energy Operating Services, Inc., 41100 US Highway 395, Boron,
CA 93516
760-762-5562

January 6, 2020

Mr. Alan DeSalvio
Mojave Desert Air Quality Management District
14306 Park Avenue
Victorville, CA 92392-2383

Dear Mr. DeSalvio:

Attached is the Emissions Monitoring Plan Report for SEGS III-VII for the period of October through December 2019. The data is reported as per the Monitoring Plan submitted June 24, 1993. The Monitoring Plan meets the requirements of current MDAQMD permits and the CEC Conditions of Certification, Item 1-29, as amended 12/1/94.

All of the data is presented as described in the Monitoring Plan. Additional notes are as follows:

1. Cylinder Gas Audits were not performed during the reporting period since the permits for the three remaining boilers at SEGS III, IV, and V were cancelled effective November 4, 2019.
2. Total emissions of CO and particulate matter (PM) were calculated based upon total gas usage and emissions factors. These emissions factors for boiler emissions are average results from compliance testing performed at SEGS III-V August 2017 and SEGS VI – VII August 2018 for CO factors, August 2016 for SEGS III, August 2016 for SEGS IV, August 2017 for SEGS V and August 2015 for SEGS VI and VII PM factors. The factor values for SEGS III-V are 0.005 lbs CO/mmBtu and 0.0000 lbs PM/mmBtu, and for SEGS VI-VII, 0.004 lbs CO/mmBtu and 0.0001 lbs PM/mmBtu.

If you have any questions, please contact me at 760-762-5562x440 at your convenience.

I declare, under penalty of perjury under the laws of the state of California, that, based on information and belief formed after reasonable inquiry, all information provided in this report is true, accurate, and complete.

Sincerely,

A handwritten signature in black ink that reads "Glen T. King". The signature is written in a cursive style.

Glen T. King
Environmental Specialist
Luz Solar Partners III – VII

cc: CEC
EPA Region IX
file

**EMISSIONS
MONITORING
PLAN
REPORT**

SEGS III - VII

October - December

2019

TABLE OF CONTENTS

SECTION I:	Fuel Usage Summary	1.1
	Quarterly Emissions Totals	1.1
	Emission Factors	1.2
SECTION II:	Daily Gas Usage	2.1
SECTION III:	Site Rolling Averages	
	365-Day Rolling Averages (lb/day for site total)	3.1
	30-Day Rolling Averages (lb/mmBtu for each SEGS)	3.4
SECTION IV:	Daily Emissions	4.1
SECTION V:	Outages/Exceedances	
	CEMS Outages	5.1
	NOx Exceedances	5.2
	Excess Drift	5.3

QUARTERLY EMISSION TOTALS October - December 2019

TOTAL FUEL USAGE

	NATURAL GAS KSCF		DIESEL ENGINE HOURS	
	BOILER	AUX HEATER	EM. GEN.	EM. WATER
SEGS III	0	3,352	6.4	1.6
SEGS IV	0	3,788	0.4	4.5
SEGS V	0	2,997	0.4	0.7
SEGS VI	0	0	0.0	0.0
SEGS VII	0	0	0.0	0.0
SITE TOTAL	0	10,137	7.1	6.8

TOTAL EMISSIONS POUNDS EMITTED

	NOx	CO	PM
SEGS III	483	326	80
SEGS IV	445	350	81
SEGS V	345	276	0
SEGS VI	0	0	0
SEGS VII	0	0	0
TOTAL LBS	1,273	952	161
TOTAL TONS	0.64	0.48	0.08

TOTAL EMISSIONS ARE FOR ALL PERMITTED EQUIPMENT:
BOILERS, AUX. HEATERS, EMERGENCY GENERATORS,
FIRE-WATER PUMPS, AND COOLING TOWERS

EMISSION FACTORS

SOURCE	RATING	LB/MMBTU		
	MMBTU/HR	NO2	CO	PM
SEGS III-V BOILERS	360		0.005	0.0000
SEGS VI-VII BOILERS	367		0.004	0.0001
	RATING	LB/EQ. HR.		
	MMBTU/HR	NO2	CO	PM
SEGS III-V AUX HTRS	24	2.7	2.2	
SEGS VI-VII AUX HTRS	24	2.4	1.8	
	HP			
DIESEL GEN. III-V	900	15.9	2.8	0.5
DIESEL GEN. VI-VII	1095	15.9	2.8	0.5
FIRE WATER PUMP III-V	400	2.9	0.5	0.1
FIRE WATER PUMP VI-VII	290	2.9	0.5	0.1
	GPM			
COOLING TOWERS III-V	30000			0.75
COOLING TOWERS VI-VII	22000			0.55

NOTE: Boiler CO and PM emissions, based on emission factors listed above, are in compliance with daily emission limits with daily fuel use for any individual SEGS boiler less than: 116,229 KSCF

DAILY GAS USAGE IN KSCF
SEGS III-VII
October 2019

<u>DATE</u>	<u>SEGS III</u>	<u>SEGS IV</u>	<u>SEGS V</u>	<u>SEGS VI</u>	<u>SEGS VII</u>	<u>SITE TOTAL</u>
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	0	0	0	0	0	0
12	0	0	0	0	0	0
13	0	0	0	0	0	0
14	0	0	0	0	0	0
15	0	0	0	0	0	0
16	0	0	0	0	0	0
17	0	0	0	0	0	0
18	0	0	0	0	0	0
19	0	0	0	0	0	0
20	0	0	0	0	0	0
21	0	0	0	0	0	0
22	0	0	0	0	0	0
23	0	0	0	0	0	0
24	0	0	0	0	0	0
25	0	0	0	0	0	0
26	0	0	0	0	0	0
27	0	0	0	0	0	0
28	25	27	0	0	0	52
29	0	0	0	0	0	0
30	21	23	114	0	0	158
31	0	0	0	0	0	0
TOTAL	46	50	114	0	0	210
MAX	25	27	114	0	0	158
DATE	28-Oct	28-Oct	30-Oct	1-Oct	1-Oct	30-Oct

**DAILY GAS USAGE IN KSCF
SEGS III-VII
November 2019**

<u>DATE</u>	<u>SEGS III</u>	<u>SEGS IV</u>	<u>SEGS V</u>	<u>SEGS VI</u>	<u>SEGS VII</u>	<u>SITE TOTAL</u>
1	96	122	114	0	0	332
2	170	174	166	0	0	510
3	148	154	122	0	0	424
4	136	138	120	0	0	394
5	80	64	64	0	0	208
6	44	58	68	0	0	170
7	150	162	166	0	0	478
8	104	0	0	0	0	104
9	0	106	108	0	0	214
10	116	106	96	0	0	318
11	88	92	96	0	0	276
12	80	82	86	0	0	248
13	60	64	66	0	0	190
14	64	58	64	0	0	186
15	62	52	66	0	0	180
16	90	92	96	0	0	278
17	94	98	102	0	0	294
18	88	90	94	0	0	272
19	74	76	80	0	0	230
20	161	161	149	0	0	471
21	93	86	87	0	0	266
22	41	48	49	0	0	138
23	57	66	65	0	0	188
24	76	66	72	0	0	214
25	88	114	92	0	0	294
26	98	84	28	0	0	210
27	86	0	0	0	0	86
28	101	101	81	0	0	283
29	130	136	71	0	0	337
30	87	63	60	0	0	210
31						
TOTAL	2,762	2,713	2,528	0	0	8,003
MAX	170	174	166	0	0	510
DATE	2-Nov	2-Nov	2-Nov	1-Nov	1-Nov	2-Nov

DAILY GAS USAGE IN KSCF
SEGS III-VII
December 2019

<u>DATE</u>	<u>SEGS III</u>	<u>SEGS IV</u>	<u>SEGS V</u>	<u>SEGS VI</u>	<u>SEGS VII</u>	<u>SITE TOTAL</u>
1	72	115	78	0	0	265
2	44	60	24	0	0	128
3	46	72	20	0	0	138
4	34	82	24	0	0	140
5	48	72	48	0	0	168
6	0	58	0	0	0	58
7	30	70	0	0	0	100
8	0	84	0	0	0	84
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	46	96	50	0	0	192
12	32	24	34	0	0	90
13	0	0	0	0	0	0
14	34	76	38	0	0	148
15	0	50	0	0	0	50
16	0	0	0	0	0	0
17	36	36	38	0	0	110
18	0	0	0	0	0	0
19	0	0	0	0	0	0
20	12	12	1	0	0	25
21	0	0	0	0	0	0
22	18	20	0	0	0	38
23	0	21	0	0	0	21
24	20	0	0	0	0	20
25	0	0	0	0	0	0
26	26	28	0	0	0	54
27	4	10	0	0	0	14
28	8	12	0	0	0	20
29	0	0	0	0	0	0
30	0	0	0	0	0	0
31	34	27	0	0	0	61
TOTAL	544	1,025	355	0	0	1,924
MAX	72	115	78	0	0	265
DATE	1-Dec	1-Dec	1-Dec	1-Dec	1-Dec	1-Dec

**365-DAY NO2 ROLLING AVERAGE
SEGS III-VII PERMITTED EQUIPMENT
October 2019**

DATE	TOTAL SITE LBS. NO2				AVERAGE LB/DAY
	BOILERS	AUX. HTRS.	DIESEL ENGS	DAILY TOTAL	
10/01/19	0.0	0.0	0.0	0.0	35.9
10/02/19	0.0	0.0	0.0	0.0	35.5
10/03/19	0.0	0.0	0.0	0.0	35.2
10/04/19	0.0	0.0	0.0	0.0	34.8
10/05/19	0.0	0.0	0.0	0.0	34.5
10/06/19	0.0	0.0	0.6	0.6	34.1
10/07/19	0.0	0.0	0.0	0.0	33.8
10/08/19	0.0	0.0	0.0	0.0	33.4
10/09/19	0.0	0.0	0.0	0.0	33.1
10/10/19	0.0	0.0	0.0	0.0	32.7
10/11/19	0.0	0.0	0.0	0.0	32.4
10/12/19	0.0	0.0	0.0	0.0	32.0
10/13/19	0.0	0.0	100.5	100.5	32.0
10/14/19	0.0	0.0	0.0	0.0	31.6
10/15/19	0.0	0.0	0.0	0.0	31.3
10/16/19	0.0	0.0	0.0	0.0	31.0
10/17/19	0.0	0.0	0.0	0.0	30.6
10/18/19	0.0	0.0	0.0	0.0	30.3
10/19/19	0.0	0.0	0.0	0.0	29.9
10/20/19	0.0	0.0	0.9	0.9	29.6
10/21/19	0.0	0.0	0.0	0.0	29.3
10/22/19	0.0	0.0	0.0	0.0	28.9
10/23/19	0.0	0.0	0.0	0.0	28.6
10/24/19	0.0	0.0	0.0	0.0	28.3
10/25/19	0.0	0.0	0.0	0.0	28.0
10/26/19	0.0	0.0	0.0	0.0	27.6
10/27/19	0.0	0.0	1.2	1.2	27.3
10/28/19	0.0	5.9	0.0	5.9	27.0
10/29/19	0.0	0.0	0.0	0.0	26.7
10/30/19	0.0	17.8	0.0	17.8	26.4
10/31/19	0.0	0.0	0.0	0.0	26.1

**365-DAY NO2 ROLLING AVERAGE
SEGS III-VII PERMITTED EQUIPMENT
November 2019**

DATE	TOTAL SITE LBS. NO2				AVERAGE LB/DAY
	BOILERS	AUX. HTRS.	DIESEL ENGS	DAILY TOTAL	
11/01/19	0.0	37.4	0.0	37.4	25.9
11/02/19	0.0	57.4	0.0	57.4	25.7
11/03/19	0.0	47.7	0.0	47.7	25.5
11/04/19	0.0	44.3	0.0	44.3	25.3
11/05/19	0.0	23.4	0.0	23.4	25.0
11/06/19	0.0	19.1	0.0	19.1	24.8
11/07/19	0.0	53.8	0.0	53.8	24.6
11/08/19	0.0	11.7	0.0	11.7	24.3
11/09/19	0.0	24.1	0.0	24.1	24.1
11/10/19	0.0	35.8	0.0	35.8	23.9
11/11/19	0.0	31.1	0.0	31.1	23.6
11/12/19	0.0	27.9	0.0	27.9	23.4
11/13/19	0.0	21.4	0.0	21.4	23.2
11/14/19	0.0	20.9	0.0	20.9	22.9
11/15/19	0.0	20.3	0.0	20.3	22.7
11/16/19	0.0	31.3	0.0	31.3	22.4
11/17/19	0.0	33.1	0.0	33.1	22.2
11/18/19	0.0	30.6	0.0	30.6	22.0
11/19/19	0.0	25.9	0.0	25.9	21.8
11/20/19	0.0	53.0	0.0	53.0	21.6
11/21/19	0.0	29.9	0.0	29.9	21.4
11/22/19	0.0	15.5	0.0	15.5	21.1
11/23/19	0.0	21.2	0.0	21.2	20.9
11/24/19	0.0	24.1	0.0	24.1	20.6
11/25/19	0.0	33.1	0.0	33.1	20.4
11/26/19	0.0	23.6	0.0	23.6	20.2
11/27/19	0.0	9.7	0.0	9.7	19.9
11/28/19	0.0	31.8	0.0	31.8	19.7
11/29/19	0.0	37.9	0.0	37.9	19.5
11/30/19	0.0	23.6	0.0	23.6	19.3

**365-DAY NO2 ROLLING AVERAGE
SEGS III-VII PERMITTED EQUIPMENT
December 2019**

DATE	TOTAL SITE LBS. NO2				AVERAGE LB/DAY
	BOILERS	AUX. HTRS.	DIESEL ENGS	DAILY TOTAL	
12/01/19	0.0	29.8	14.5	44.3	19.1
12/02/19	0.0	14.4	0.0	14.4	18.9
12/03/19	0.0	15.5	0.0	15.5	18.6
12/04/19	0.0	15.8	0.0	15.8	18.4
12/05/19	0.0	18.9	0.0	18.9	18.1
12/06/19	0.0	6.5	0.0	6.5	17.8
12/07/19	0.0	11.3	0.0	11.3	17.6
12/08/19	0.0	9.5	3.5	12.9	17.3
12/09/19	0.0	0.0	0.0	0.0	17.0
12/10/19	0.0	0.0	0.0	0.0	16.7
12/11/19	0.0	21.6	0.0	21.6	16.5
12/12/19	0.0	10.1	0.0	10.1	16.2
12/13/19	0.0	0.0	0.0	0.0	16.0
12/14/19	0.0	16.7	0.0	16.7	15.7
12/15/19	0.0	5.6	9.6	15.2	15.5
12/16/19	0.0	0.0	0.0	0.0	15.2
12/17/19	0.0	12.4	0.0	12.4	14.9
12/18/19	0.0	0.0	0.0	0.0	14.7
12/19/19	0.0	0.0	0.0	0.0	14.4
12/20/19	0.0	2.8	0.0	2.8	14.1
12/21/19	0.0	0.0	0.0	0.0	13.8
12/22/19	0.0	4.3	1.5	5.7	13.5
12/23/19	0.0	2.4	0.0	2.4	13.3
12/24/19	0.0	2.3	0.0	2.3	13.0
12/25/19	0.0	0.0	0.0	0.0	12.7
12/26/19	0.0	6.1	0.0	6.1	12.5
12/27/19	0.0	1.6	0.0	1.6	12.2
12/28/19	0.0	2.3	0.0	2.3	11.9
12/29/19	0.0	0.0	0.6	0.6	11.6
12/30/19	0.0	0.0	0.0	0.0	11.4
12/31/19	0.0	6.9	0.0	6.9	11.4

**THIRTY-DAY ROLLING AVERAGE
SEGS III BOILER NO2 EMISSIONS
(lbNO2 / MMBtu)**

DATE	BOILER lb/MMBtu		DATE	BOILER lb/MMBtu		DATE	BOILER lb/MMBtu
10/01/19	0.000		11/01/19	0.000		12/01/19	0.000
10/02/19	0.000		11/02/19	0.000		12/02/19	0.000
10/03/19	0.000		11/03/19	0.000		12/03/19	0.000
10/04/19	0.000		11/04/19	0.000		12/04/19	0.000
10/05/19	0.000		11/05/19	0.000		12/05/19	0.000
10/06/19	0.000		11/06/19	0.000		12/06/19	0.000
10/07/19	0.000		11/07/19	0.000		12/07/19	0.000
10/08/19	0.000		11/08/19	0.000		12/08/19	0.000
10/09/19	0.000		11/09/19	0.000		12/09/19	0.000
10/10/19	0.000		11/10/19	0.000		12/10/19	0.000
10/11/19	0.000		11/11/19	0.000		12/11/19	0.000
10/12/19	0.000		11/12/19	0.000		12/12/19	0.000
10/13/19	0.000		11/13/19	0.000		12/13/19	0.000
10/14/19	0.000		11/14/19	0.000		12/14/19	0.000
10/15/19	0.000		11/15/19	0.000		12/15/19	0.000
10/16/19	0.000		11/16/19	0.000		12/16/19	0.000
10/17/19	0.000		11/17/19	0.000		12/17/19	0.000
10/18/19	0.000		11/18/19	0.000		12/18/19	0.000
10/19/19	0.000		11/19/19	0.000		12/19/19	0.000
10/20/19	0.000		11/20/19	0.000		12/20/19	0.000
10/21/19	0.000		11/21/19	0.000		12/21/19	0.000
10/22/19	0.000		11/22/19	0.000		12/22/19	0.000
10/23/19	0.000		11/23/19	0.000		12/23/19	0.000
10/24/19	0.000		11/24/19	0.000		12/24/19	0.000
10/25/19	0.000		11/25/19	0.000		12/25/19	0.000
10/26/19	0.000		11/26/19	0.000		12/26/19	0.000
10/27/19	0.000		11/27/19	0.000		12/27/19	0.000
10/28/19	0.000		11/28/19	0.000		12/28/19	0.000
10/29/19	0.000		11/29/19	0.000		12/29/19	0.000
10/30/19	0.000		11/30/19	0.000		12/30/19	0.000
10/31/19	0.000					12/31/19	0.000

**THIRTY-DAY ROLLING AVERAGE
SEGS IV BOILER NO2 EMISSIONS
(lbNO2 / MMBtu)**

DATE	BOILER lb/MMBtu		DATE	BOILER lb/MMBtu		DATE	BOILER lb/MMBtu
10/01/19	0.000		11/01/19	0.000		12/01/19	0.000
10/02/19	0.000		11/02/19	0.000		12/02/19	0.000
10/03/19	0.000		11/03/19	0.000		12/03/19	0.000
10/04/19	0.000		11/04/19	0.000		12/04/19	0.000
10/05/19	0.000		11/05/19	0.000		12/05/19	0.000
10/06/19	0.000		11/06/19	0.000		12/06/19	0.000
10/07/19	0.000		11/07/19	0.000		12/07/19	0.000
10/08/19	0.000		11/08/19	0.000		12/08/19	0.000
10/09/19	0.000		11/09/19	0.000		12/09/19	0.000
10/10/19	0.000		11/10/19	0.000		12/10/19	0.000
10/11/19	0.000		11/11/19	0.000		12/11/19	0.000
10/12/19	0.000		11/12/19	0.000		12/12/19	0.000
10/13/19	0.000		11/13/19	0.000		12/13/19	0.000
10/14/19	0.000		11/14/19	0.000		12/14/19	0.000
10/15/19	0.000		11/15/19	0.000		12/15/19	0.000
10/16/19	0.000		11/16/19	0.000		12/16/19	0.000
10/17/19	0.000		11/17/19	0.000		12/17/19	0.000
10/18/19	0.000		11/18/19	0.000		12/18/19	0.000
10/19/19	0.000		11/19/19	0.000		12/19/19	0.000
10/20/19	0.000		11/20/19	0.000		12/20/19	0.000
10/21/19	0.000		11/21/19	0.000		12/21/19	0.000
10/22/19	0.000		11/22/19	0.000		12/22/19	0.000
10/23/19	0.000		11/23/19	0.000		12/23/19	0.000
10/24/19	0.000		11/24/19	0.000		12/24/19	0.000
10/25/19	0.000		11/25/19	0.000		12/25/19	0.000
10/26/19	0.000		11/26/19	0.000		12/26/19	0.000
10/27/19	0.000		11/27/19	0.000		12/27/19	0.000
10/28/19	0.000		11/28/19	0.000		12/28/19	0.000
10/29/19	0.000		11/29/19	0.000		12/29/19	0.000
10/30/19	0.000		11/30/19	0.000		12/30/19	0.000
10/31/19	0.000					12/31/19	0.000

**THIRTY-DAY ROLLING AVERAGE
SEGS V BOILER NO2 EMISSIONS
(lbNO2 / MMBtu)**

DATE	BOILER lb/MMBtu		DATE	BOILER lb/MMBtu		DATE	BOILER lb/MMBtu
10/01/19	0.000		11/01/19	0.000		12/01/19	0.000
10/02/19	0.000		11/02/19	0.000		12/02/19	0.000
10/03/19	0.000		11/03/19	0.000		12/03/19	0.000
10/04/19	0.000		11/04/19	0.000		12/04/19	0.000
10/05/19	0.000		11/05/19	0.000		12/05/19	0.000
10/06/19	0.000		11/06/19	0.000		12/06/19	0.000
10/07/19	0.000		11/07/19	0.000		12/07/19	0.000
10/08/19	0.000		11/08/19	0.000		12/08/19	0.000
10/09/19	0.000		11/09/19	0.000		12/09/19	0.000
10/10/19	0.000		11/10/19	0.000		12/10/19	0.000
10/11/19	0.000		11/11/19	0.000		12/11/19	0.000
10/12/19	0.000		11/12/19	0.000		12/12/19	0.000
10/13/19	0.000		11/13/19	0.000		12/13/19	0.000
10/14/19	0.000		11/14/19	0.000		12/14/19	0.000
10/15/19	0.000		11/15/19	0.000		12/15/19	0.000
10/16/19	0.000		11/16/19	0.000		12/16/19	0.000
10/17/19	0.000		11/17/19	0.000		12/17/19	0.000
10/18/19	0.000		11/18/19	0.000		12/18/19	0.000
10/19/19	0.000		11/19/19	0.000		12/19/19	0.000
10/20/19	0.000		11/20/19	0.000		12/20/19	0.000
10/21/19	0.000		11/21/19	0.000		12/21/19	0.000
10/22/19	0.000		11/22/19	0.000		12/22/19	0.000
10/23/19	0.000		11/23/19	0.000		12/23/19	0.000
10/24/19	0.000		11/24/19	0.000		12/24/19	0.000
10/25/19	0.000		11/25/19	0.000		12/25/19	0.000
10/26/19	0.000		11/26/19	0.000		12/26/19	0.000
10/27/19	0.000		11/27/19	0.000		12/27/19	0.000
10/28/19	0.000		11/28/19	0.000		12/28/19	0.000
10/29/19	0.000		11/29/19	0.000		12/29/19	0.000
10/30/19	0.000		11/30/19	0.000		12/30/19	0.000
10/31/19	0.000					12/31/19	0.000

SEGS III DAILY NOx EMISSIONS

October - December 2019

ALL UNITS IN POUNDS

DATE	October			November			December		
	BOILER	AUX HTR	TOTAL	BOILER	AUX HTR	TOTAL	BOILER	AUX HTR	TOTAL
1	0.0	0.0	0.0	0.0	10.8	10.8	0.0	8.1	8.1
2	0.0	0.0	0.0	0.0	19.1	19.1	0.0	5.0	5.0
3	0.0	0.0	0.0	0.0	16.7	16.7	0.0	5.2	5.2
4	0.0	0.0	0.0	0.0	15.3	15.3	0.0	3.8	3.8
5	0.0	0.0	0.0	0.0	9.0	9.0	0.0	5.4	5.4
6	0.0	0.0	0.0	0.0	5.0	5.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	16.9	16.9	0.0	3.4	3.4
8	0.0	0.0	0.0	0.0	11.7	11.7	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	13.1	13.1	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	9.9	9.9	0.0	5.2	5.2
12	0.0	0.0	0.0	0.0	9.0	9.0	0.0	3.6	3.6
13	0.0	0.0	0.0	0.0	6.8	6.8	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	7.2	7.2	0.0	3.8	3.8
15	0.0	0.0	0.0	0.0	7.0	7.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	10.1	10.1	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	10.6	10.6	0.0	4.1	4.1
18	0.0	0.0	0.0	0.0	9.9	9.9	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	8.3	8.3	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	18.1	18.1	0.0	1.4	1.4
21	0.0	0.0	0.0	0.0	10.5	10.5	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	4.6	4.6	0.0	2.0	2.0
23	0.0	0.0	0.0	0.0	6.4	6.4	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	8.6	8.6	0.0	2.3	2.3
25	0.0	0.0	0.0	0.0	9.9	9.9	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	11.0	11.0	0.0	2.9	2.9
27	0.0	0.0	0.0	0.0	9.7	9.7	0.0	0.5	0.5
28	0.0	2.8	2.8	0.0	11.4	11.4	0.0	0.9	0.9
29	0.0	0.0	0.0	0.0	14.6	14.6	0.0	0.0	0.0
30	0.0	2.4	2.4	0.0	9.8	9.8	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	8.1	8.1	0.0	3.8	3.8
TOTAL	0.0	5.2	5.2	0.0	319.1	319.1	0.0	61.4	61.4
MAX			2.8			19.1			8.1
DATE			28-Oct			2-Nov			1-Dec

SEGS IV DAILY NOx EMISSIONS

October - December 2019

ALL UNITS IN POUNDS

DATE	October			November			December		
	BOILER	AUX HTR	TOTAL	BOILER	AUX HTR	TOTAL	BOILER	AUX HTR	TOTAL
1	0.0	0.0	0.0	0.0	13.7	13.7	0.0	12.9	12.9
2	0.0	0.0	0.0	0.0	19.6	19.6	0.0	6.8	6.8
3	0.0	0.0	0.0	0.0	17.3	17.3	0.0	8.1	8.1
4	0.0	0.0	0.0	0.0	15.5	15.5	0.0	9.2	9.2
5	0.0	0.0	0.0	0.0	7.2	7.2	0.0	8.1	8.1
6	0.0	0.0	0.0	0.0	6.5	6.5	0.0	6.5	6.5
7	0.0	0.0	0.0	0.0	18.2	18.2	0.0	7.9	7.9
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.5
9	0.0	0.0	0.0	0.0	11.9	11.9	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	11.9	11.9	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	10.4	10.4	0.0	10.8	10.8
12	0.0	0.0	0.0	0.0	9.2	9.2	0.0	2.7	2.7
13	0.0	0.0	0.0	0.0	7.2	7.2	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	6.5	6.5	0.0	8.6	8.6
15	0.0	0.0	0.0	0.0	5.9	5.9	0.0	5.6	5.6
16	0.0	0.0	0.0	0.0	10.4	10.4	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	11.0	11.0	0.0	4.1	4.1
18	0.0	0.0	0.0	0.0	10.1	10.1	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	8.6	8.6	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	18.1	18.1	0.0	1.4	1.4
21	0.0	0.0	0.0	0.0	9.7	9.7	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	5.4	5.4	0.0	2.3	2.3
23	0.0	0.0	0.0	0.0	7.4	7.4	0.0	2.4	2.4
24	0.0	0.0	0.0	0.0	7.4	7.4	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	12.8	12.8	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	9.5	9.5	0.0	3.2	3.2
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
28	0.0	3.0	3.0	0.0	11.4	11.4	0.0	1.4	1.4
29	0.0	0.0	0.0	0.0	15.3	15.3	0.0	0.0	0.0
30	0.0	2.6	2.6	0.0	7.1	7.1	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	12.9	12.9	0.0	3.0	3.0
TOTAL	0.0	5.6	5.6	0.0	318.1	318.1	0.0	115.6	115.6
MAX			3.0			19.6			12.9
DATE			28-Oct			2-Nov			1-Dec

SEGS V DAILY NOx EMISSIONS

October - December 2019

ALL UNITS IN POUNDS

DATE	October			November			December		
	BOILER	AUX HTR	TOTAL	BOILER	AUX HTR	TOTAL	BOILER	AUX HTR	TOTAL
1	0.0	0.0	0.0	0.0	13.7	13.7	0.0	12.9	12.9
2	0.0	0.0	0.0	0.0	19.6	19.6	0.0	6.8	6.8
3	0.0	0.0	0.0	0.0	17.3	17.3	0.0	8.1	8.1
4	0.0	0.0	0.0	0.0	15.5	15.5	0.0	9.2	9.2
5	0.0	0.0	0.0	0.0	7.2	7.2	0.0	8.1	8.1
6	0.0	0.0	0.0	0.0	6.5	6.5	0.0	6.5	6.5
7	0.0	0.0	0.0	0.0	18.2	18.2	0.0	7.9	7.9
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	9.5
9	0.0	0.0	0.0	0.0	11.9	11.9	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	11.9	11.9	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	10.4	10.4	0.0	10.8	10.8
12	0.0	0.0	0.0	0.0	9.2	9.2	0.0	2.7	2.7
13	0.0	0.0	0.0	0.0	7.2	7.2	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	6.5	6.5	0.0	8.6	8.6
15	0.0	0.0	0.0	0.0	5.9	5.9	0.0	5.6	5.6
16	0.0	0.0	0.0	0.0	10.4	10.4	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	11.0	11.0	0.0	4.1	4.1
18	0.0	0.0	0.0	0.0	10.1	10.1	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	8.6	8.6	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	18.1	18.1	0.0	1.4	1.4
21	0.0	0.0	0.0	0.0	9.7	9.7	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	5.4	5.4	0.0	2.3	2.3
23	0.0	0.0	0.0	0.0	7.4	7.4	0.0	2.4	2.4
24	0.0	0.0	0.0	0.0	7.4	7.4	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	12.8	12.8	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	9.5	9.5	0.0	3.2	3.2
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
28	0.0	3.0	3.0	0.0	11.4	11.4	0.0	1.4	1.4
29	0.0	0.0	0.0	0.0	15.3	15.3	0.0	0.0	0.0
30	0.0	2.6	2.6	0.0	7.1	7.1	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	12.9	12.9	0.0	3.0	3.0
TOTAL	0.0	5.6	5.6	0.0	318.1	318.1	0.0	115.6	115.6
MAX			3.0			19.6			12.9
DATE			28-Oct			2-Nov			1-Dec

CEMS EXCEEDENCE/OUTAGE REPORT - SEGS III-VII

Year: 2019
 Months: October through December

Monitor
 Pollutant: NOx
 Mfg.: Horiba
 Model #: See Below
 Serial #: See Below
 Installed: See Below

FACILITY NAME/LOCATION: Kramer Junction Site ---- LUZ SOLAR PARTNERS III - VII
 AQMD Permit #'s: See Below

PROGRAM:

SIP: X NSPS: X
 NESHAP: _____ OTHER: _____

Independent Audits

RATA: 8/27/18 - 8/28/18
 CGA: N/A

TOTAL OPERATING TIME: Process (hrs): III - 0, IV - 0, V - 0, VI - 0, VII - 0
 Monitor (hrs): 2208

EXCESS EMISSIONS(HRS)		CEMS DOWNTIME(HRS)	
STARTUP/SHUTDOWN	0	MONITOR MALFUNCTION	0.00
CLEANING	0	NONMONITOR MALFUNCTION	0
EQUIPMENT/PROCESS MALFUNCTION	0	CALIBRATION	0
UNKNOWN	0	UNKNOWN	0
TOTAL	0	TOTAL	0

Note:

- Excess emissions caused by scheduled startup/shutdown should be classified as startup/shutdown.
- Excess emissions caused by startup after a malfunction shutdown should be classified as an equipment/process malfunction.
- An unknown excess emission is not normally accepted by the agency. An unknown classification is usually given when the agency is provided with inadequate information from the source.

Note:

- Monitor malfunctions are malfunctions associated with the sample collection system, the NOx analyzer, or the data processing/recording system.
- Nonmonitor malfunctions are malfunctions associated with the entire NOx monitoring system. (e.g. plant power failure)
- Unknown downtime causes should not be acceptable for the same reasons unknown excess emissions are not accepted.

SEGS	PERMIT #	MONITOR		
		MODEL #	CGA DATE	SERIAL #
III	B001793	EDNA-4320L	N/A	V5PGF04D
IV	B001802	EDNA-4320L	N/A	T8FR3969
V	B001805	EDNA-4320L	N/A	X3USL747
VI	B001882	VA3123	N/A	4372942001
VII	B001885	VA3123	N/A	4307310001

CEMS OUTAGE REPORT
OCTOBER - DECEMBER 2019
KRAMER JUNCTION SITE

SEGS	INITIAL DATE	DURATION (hours)	BOILER OP HRS	REASON
NO OUTAGES				

SEGS III-VII EXCEEDANCE REPORT

NOx (ppm) AND/OR lbNO2/hr
OCTOBER - DECEMBER 2019

SEGS	INITIAL DATE	INITIAL TIME	LENGTH (HOURS)	<u>NOx ppm @3% O2</u>			<u>lb/hr NO2</u>			TOTAL lbs EXCESS NO2
				LIMIT	AVG	MAX	LIMIT	AVG	MAX	
NO EXCEEDANCES										

Maximum ppm NOx shows highest 15 minute values, maximum lb/hr NO2 shows maximum hourly values. Averages cover the entire period of the exceedance. Excess lbNO2 is the sum of any hourly exceedances within the reported period.

CEMS EXCESS DRIFT REPORT

OCTOBER - DECEMBER 2018

KRAMER JUNCTION SITE

SEGS	DATE	<u>ANALYZER</u> NOx OR O ₂	<u>ASPECT</u> ZERO OR SPAN	DRIFT
III	10/27/19	NOx	SPAN	2.80
III	10/27/19	O ₂	SPAN	0.87
IV	10/20/19	NOx	SPAN	3.08
IV	10/23/19	NOx	SPAN	4.14
IV	10/27/19	NOx	SPAN	3.21
V	10/05/19	NOx	SPAN	7.83
V	10/11/19	NOx	SPAN	3.02