

16-Oct-21 09:00:00
 16-Oct-21 13:00:00
 1H

Exceedences in Red

	PPT	NOX PPM	NOXLB/HR	CO	COLB/HR	O2	NOXLB/MMBTU	COLB/MMBTU	Exhaust Temp TTXM-C	Mass Exhaust			
										Flow LBS/SEC EQDPPSC.PV	PM 10	VOC	SO2
Startup 09:56	10/16/2021 9:00	0.286390168	0.111975599	3.076126839	0.742528986	17.534	0.002	0.012	110.4	37.50202247	0.462	ND<1.14	0.327
	10/16/2021 10:00	10.8183243	29.72718062	23.84552304	26.63525774	15.157	0.041	0.055	992.0213132	561.9759251	0.462	ND<1.14	0.327
Shutdown 11:06	10/16/2021 11:00	3.76306908	3.49649194	0.784845026	0.423552786	15.786	0.016	0.002	226.5	79.30882594	0.462	ND<1.14	0.327
	2 Hour Avg Startup	5.552357236	14.91957811	13.46082494	13.68889336	16.3455	0.021396646	0.033508381					
	2 Hour Avg Shutdown	7.290696692	16.61183628	12.31518403	13.52940526	15.4715	0.028468859	0.02847872					
Startup/Shutdown Limits			140 LBS/HR		94 LBS/HR								
Normal Limits			5 PPM	17.66 LBS/HR	25 PPM	54.9 LBS/HR	0.018	0.057			9.98 LBS/HR	9 LBS/HR	0.92 LBS/HR

Stack Dimensions	Height	Width	Length	Stack Area	Final Exhaust Exit Area
					Stack area minus silencer panels
	37.7	18.4	9.4	172.96 SQ/FT	132.23 SQ/FT

10/16/2021 9:00
10/16/2021 11:59
1m

PPT	Mass Exhaust		Exhaust Temp TTXM_C.PV	
	Flow LBS/SEC EXQDPPSC.PV			
16-Oct-21 09:00:00	33.80682829	300	70	37.50202
16-Oct-21 09:01:00	33.82740163	300	70	561.9759
16-Oct-21 09:02:00	33.81185623	300	70	79.30883
16-Oct-21 09:03:00	33.74693872	300	70	
16-Oct-21 09:04:00	33.56644312	300	70	
16-Oct-21 09:05:00	33.5889266	300	70	
16-Oct-21 09:06:00	33.79212767	300	70	
16-Oct-21 09:07:00	33.57903208	300	70	
16-Oct-21 09:08:00	33.63976487	300	70	
16-Oct-21 09:09:00	34.25083786	300	70	
16-Oct-21 09:10:00	33.64424238	300	70	
16-Oct-21 09:11:00	34.4459454	300	70	
16-Oct-21 09:12:00	36.0367638	300	70	
16-Oct-21 09:13:00	35.005713	300	70	
16-Oct-21 09:14:00	34.24523711	300	70	
16-Oct-21 09:15:00	35.57962262	300	70	
16-Oct-21 09:16:00	35.39447714	300	70	
16-Oct-21 09:17:00	35.28969787	300	70	
16-Oct-21 09:18:00	36.05952711	300	70	
16-Oct-21 09:19:00	34.92224678	300	70	
16-Oct-21 09:20:00	34.34141981	300	70	
16-Oct-21 09:21:00	35.29275112	300	70	
16-Oct-21 09:22:00	35.59605385	300	70	
16-Oct-21 09:23:00	35.21592068	300	70	
16-Oct-21 09:24:00	36.88658042	300	70	
16-Oct-21 09:25:00	37.79075363	300	70	
16-Oct-21 09:26:00	36.85548795	300	70	
16-Oct-21 09:27:00	37.68146019	300	70	
16-Oct-21 09:28:00	38.39443207	300	70	
16-Oct-21 09:29:00	37.78295097	300	70	
16-Oct-21 09:30:00	37.49300756	300	70	
16-Oct-21 09:31:00	37.19201806	300	70	
16-Oct-21 09:32:00	35.70869102	300	70	
16-Oct-21 09:33:00	36.59245806	300	70	
16-Oct-21 09:34:00	35.74086192	300	70	
16-Oct-21 09:35:00	35.84017735	300	70	
16-Oct-21 09:36:00	34.57416598	300	70	
16-Oct-21 09:37:00	34.22396809	300	70	
16-Oct-21 09:38:00	34.61672127	300	70	
16-Oct-21 09:39:00	34.80106158	300	70	
16-Oct-21 09:40:00	34.79021056	300	70	
16-Oct-21 09:41:00	33.52967068	300	70	
16-Oct-21 09:42:00	33.91104344	300	70	
16-Oct-21 09:43:00	33.37210127	300	70	
16-Oct-21 09:44:00	34.29235208	300	70	
16-Oct-21 09:45:00	29.25278009	300	70	
16-Oct-21 09:46:00	38.34205751	300	70	
16-Oct-21 09:47:00	14.76994081	300	70	
16-Oct-21 09:48:00	25.18997707	300	70	
16-Oct-21 09:49:00	17.88893243	300	70	
16-Oct-21 09:50:00	21.59837419	300	70	
16-Oct-21 09:51:00	29.97050686	300	70	
16-Oct-21 09:52:00	32.01999423	300	70	
16-Oct-21 09:53:00	32.60055885	300	100	
16-Oct-21 09:54:00	32.50560463	300	200	
16-Oct-21 09:55:00	30.73358031	300	300	
16-Oct-21 09:56:00	51.25621738	305.5552483	305.5552	
16-Oct-21 09:57:00	73.04872446	516.5155388	516.5155	
16-Oct-21 09:58:00	105.027924	722.8804694	722.8805	
16-Oct-21 09:59:00	135.1662254	772.282884	772.2829	
16-Oct-21 10:00:00	185.5371498	816.2169734	816.217	
16-Oct-21 10:01:00	316.2626788	713.9975052	713.9975	

16-Oct-21 10:02:00	474.057606	567.3918881	567.3919
16-Oct-21 10:03:00	487.3081503	544.4798267	544.4798
16-Oct-21 10:04:00	488.3176024	606.2340169	606.234
16-Oct-21 10:05:00	489.991089	741.7629776	741.763
16-Oct-21 10:06:00	491.8401657	882.4778809	882.4779
16-Oct-21 10:07:00	492.1992127	966.7997055	966.7997
16-Oct-21 10:08:00	493.4996218	1042.114059	1042.114
16-Oct-21 10:09:00	513.3573062	1088.090442	1088.09
16-Oct-21 10:10:00	559.2529126	1066.964316	1066.964
16-Oct-21 10:11:00	594.7728302	1042.32132	1042.321
16-Oct-21 10:12:00	596.8933465	1035.783861	1035.784
16-Oct-21 10:13:00	597.8525713	1034.646843	1034.647
16-Oct-21 10:14:00	601.3970139	1032.268812	1032.269
16-Oct-21 10:15:00	605.1264833	1030.354971	1030.355
16-Oct-21 10:16:00	607.2813244	1029.383022	1029.383
16-Oct-21 10:17:00	608.8901293	1028.906369	1028.906
16-Oct-21 10:18:00	609.8339481	1028.322218	1028.322
16-Oct-21 10:19:00	610.7147035	1026.206296	1026.206
16-Oct-21 10:20:00	598.2614932	1031.800683	1031.801
16-Oct-21 10:21:00	598.2259741	1032.62126	1032.621
16-Oct-21 10:22:00	595.2432497	1032.683684	1032.684
16-Oct-21 10:23:00	594.2532235	1033.121516	1033.122
16-Oct-21 10:24:00	593.7178721	1033.351499	1033.351
16-Oct-21 10:25:00	594.7711671	1033.015962	1033.016
16-Oct-21 10:26:00	595.4947903	1032.578213	1032.578
16-Oct-21 10:27:00	593.0135925	1032.689436	1032.689
16-Oct-21 10:28:00	591.9474776	1032.99623	1032.996
16-Oct-21 10:29:00	591.6284098	1033.897439	1033.897
16-Oct-21 10:30:00	592.5650686	1033.290464	1033.29
16-Oct-21 10:31:00	590.2419539	1033.635311	1033.635
16-Oct-21 10:32:00	591.8541578	1033.487111	1033.487
16-Oct-21 10:33:00	591.4292142	1033.446235	1033.446
16-Oct-21 10:34:00	592.1619777	1032.276682	1032.277
16-Oct-21 10:35:00	590.9976589	1034.310516	1034.311
16-Oct-21 10:36:00	591.4151454	1033.385605	1033.386
16-Oct-21 10:37:00	590.6348989	1033.368286	1033.368
16-Oct-21 10:38:00	590.2398331	1034.361413	1034.361
16-Oct-21 10:39:00	592.0761009	1033.466743	1033.467
16-Oct-21 10:40:00	591.0027651	1033.899795	1033.9
16-Oct-21 10:41:00	591.5557678	1033.464267	1033.464
16-Oct-21 10:42:00	591.8232235	1033.106833	1033.107
16-Oct-21 10:43:00	590.6828678	1033.935366	1033.935
16-Oct-21 10:44:00	589.5540466	1034.658189	1034.658
16-Oct-21 10:45:00	591.5312397	1033.07278	1033.073
16-Oct-21 10:46:00	591.0875041	1033.68848	1033.688
16-Oct-21 10:47:00	590.5020524	1033.517775	1033.518
16-Oct-21 10:48:00	590.6165726	1034.228376	1034.228
16-Oct-21 10:49:00	591.2042247	1033.05808	1033.058
16-Oct-21 10:50:00	591.9715902	1033.546061	1033.546
16-Oct-21 10:51:00	590.2904105	1032.949683	1032.95
16-Oct-21 10:52:00	590.2554661	1033.181337	1033.181
16-Oct-21 10:53:00	590.6135386	1033.412577	1033.413
16-Oct-21 10:54:00	590.3549016	1031.700427	1031.7
16-Oct-21 10:55:00	552.2372635	1047.650826	1047.651
16-Oct-21 10:56:00	513.5240278	1073.806057	1073.806
16-Oct-21 10:57:00	502.878892	1037.988249	1037.988
16-Oct-21 10:58:00	501.841697	966.9547908	966.9548
16-Oct-21 10:59:00	500.468352	901.035849	901.0358
16-Oct-21 11:00:00	499.4736037	834.2880793	834.2881
16-Oct-21 11:01:00	498.4405588	759.9698252	759.9698
16-Oct-21 11:02:00	497.2490246	696.7180074	696.718
16-Oct-21 11:03:00	496.0099001	632.016743	632.0167
16-Oct-21 11:04:00	494.8679271	559.8213165	559.8213
16-Oct-21 11:05:00	439.6818676	515.7842649	515.7843
16-Oct-21 11:06:00	120.7750292	404.6179876	404.618
16-Oct-21 11:07:00	49.75108498	388.6310067	388.631
16-Oct-21 11:08:00	18.1998411	379.3209601	379.321
16-Oct-21 11:09:00	20.15726417	375.5807856	375.5808
16-Oct-21 11:10:00	28.47876247	375.133286	375.1333
16-Oct-21 11:11:00	30.67140597	375.7313797	375.7314

16-Oct-21 11:12:00	34.512206	377.7830088	377.783
16-Oct-21 11:13:00	35.67566161	380.6515713	380.6516
16-Oct-21 11:14:00	35.66189607	384.4118774	384.4119
16-Oct-21 11:15:00	35.47868098	387.3872823	387.3873
16-Oct-21 11:16:00	35.50304452	390.9169025	390.9169
16-Oct-21 11:17:00	36.14675843	394.7953224	394.7953
16-Oct-21 11:18:00	37.12436829	395.9245552	395.9246
16-Oct-21 11:19:00	33.70972883	392.6236389	392.6236
16-Oct-21 11:20:00	33.41395332	351.8431931	351.8432
16-Oct-21 11:21:00	26.06369771	315.1847957	315.1848
16-Oct-21 11:22:00	19.10143964	306.6140253	306.614
16-Oct-21 11:23:00	28.10362502	304.5308661	304.5309
16-Oct-21 11:24:00	21.9955297	301.9503058	301.9503
16-Oct-21 11:25:00	15.05579834	300	200
16-Oct-21 11:26:00	25.06866589	300	100
16-Oct-21 11:27:00	30.98938464	300	70
16-Oct-21 11:28:00	32.92222376	300	70
16-Oct-21 11:29:00	32.44638975	300	70
16-Oct-21 11:30:00	32.70299997	300	70
16-Oct-21 11:31:00	31.04991353	300	70
16-Oct-21 11:32:00	32.7431824	300	70
16-Oct-21 11:33:00	32.34522014	300	70
16-Oct-21 11:34:00	32.67916897	300	70
16-Oct-21 11:35:00	32.58321393	300	70
16-Oct-21 11:36:00	32.78425505	300	70
16-Oct-21 11:37:00	31.55512185	300	70
16-Oct-21 11:38:00	31.84415641	300	70
16-Oct-21 11:39:00	31.84657397	300	70
16-Oct-21 11:40:00	28.39442104	300	70
16-Oct-21 11:41:00	30.60421463	300	70
16-Oct-21 11:42:00	31.76818497	300	70
16-Oct-21 11:43:00	31.95433418	300	70
16-Oct-21 11:44:00	29.28352776	300	70
16-Oct-21 11:45:00	13.26715994	300	70
16-Oct-21 11:46:00	25.09943966	300	70
16-Oct-21 11:47:00	28.34393771	300	70
16-Oct-21 11:48:00	32.54697331	300	70
16-Oct-21 11:49:00	35.10137164	300	70
16-Oct-21 11:50:00	35.361923	300	70
16-Oct-21 11:51:00	35.62062261	300	70
16-Oct-21 11:52:00	36.88153461	300	70
16-Oct-21 11:53:00	36.55192489	300	70
16-Oct-21 11:54:00	37.22825912	300	70
16-Oct-21 11:55:00	36.0562192	300	70
16-Oct-21 11:56:00	36.28587147	300	70
16-Oct-21 11:57:00	37.11355978	300	70
16-Oct-21 11:58:00	36.89412211	300	70

From: [Jans \(Midway Sunset Cogeneration Company\), Greg](#)
To: [Bradley, Joanne](#); [Midway Sunset Management Issues](#)
Cc: [Kott, Bob](#); [Ulmer, Andrew](#)
Subject: [EXTERNAL] RE: CAISO/DOE Data Request - Midway Sunset Cogeneration Facility Unit C
Date: Wednesday, November 17, 2021 4:00:11 PM
Attachments: [image001.jpg](#)
[DOE 202\(c\) Emergency Order Midway Sunset Cogeneration Data Unit C Test Run 10_16_2021.xlsx](#)

Joanne,

Per the Department of Energy Emergency Order 202-21-2 Section A Romanette iii Midway Sunset conducted the following synchronization test of the Emergency Order specified Unit C.

(1) Flame established 0956 hours, Synchronized on-line 1004 hours, Off-line 1105 hours, Flame out 1106 hours October 16, 2021.

(2) SJVAPCD Permit S-1135-0-4 condition 5 - must comply with all permit conditions, PTO S-1135-226-26 (27) condition 21 - NOx 0.018 lb/MMBtu, condition 22 - NOx 5 ppmv, condition 38 - NOx 17.66 lb/hr. Each of these permit conditions were exceeded during the October 16, 2021, 1000 hour synchronized operation. The Unit exceeded these permit limits due to the current combustion system design being unable to meet the NOx permit limits.

- Actual emissions data in pounds per hour for each Covered Resource unit, for each hour of operations, for CO, NOx, PM2.5, PM10, volatile organic compounds (VOC), and SO2;

Please see attached spreadsheet.

- For each category of emissions, please provide permitted operating/emission limits.

Please see attached spreadsheet.

- For each category of emissions, any actual incremental emissions above the permit limits, (if units are not equipped with continuous emission monitoring systems, please calculate actual emissions using source test data);

Please see attached spreadsheet.

- Stack parameters for each Covered Resource unit: stack height, exit diameter, exit gas temperature, and exit velocity (or volumetric flow rate). Temperature and velocity should reflect

values applicable to operations above permit limits;
Please see attached spreadsheet.

➤ The hours that each Covered Resource unit operated in excess of permit limits or operated without otherwise-required permits.

Please see attached spreadsheet.

Please let us know should you have any further questions.

Thank you.

Greg

From: Bradley, Joanne [mailto:jbradley@caiso.com]
Sent: Tuesday, November 16, 2021 8:51 AM
To: Greg Jans; management
Cc: Kott, Bob; Ulmer, Andrew; Sandra Henriksen
Subject: RE: CAISO/DOE Data Request - Midway Sunset Cogeneration Facility Unit C

Hello Greg,

I wanted to follow up on this request to make sure that you will be able to provide the requested data by next Tuesday, November 23rd as requested. Please confirm that you will be submitting the data on or before November 23.

Thank you,

JB

From: Greg Jans
Sent: Tuesday, November 9, 2021 11:56 AM
To: Bradley, Joanne ; Midway Sunset Management Issues
Cc: Kott, Bob ; Ulmer, Andrew ; Sandra Henriksen
Subject: [EXTERNAL] RE: CAISO/DOE Data Request - Midway Sunset Cogeneration Facility Unit C

Good morning Joanne,

We are collecting the data and will have it to you soon. We don't have any questions at this time.

Thank you.

Greg

From: Bradley, Joanne [mailto:jbradley@caiso.com]
Sent: Tuesday, November 09, 2021 10:47 AM
To: management
Cc: Kott, Bob; Ulmer, Andrew; Sandra Henriksen
Subject: RE: CAISO/DOE Data Request - Midway Sunset Cogeneration Facility Unit C

Hello Greg,

I wanted to follow up with you on this request. Do you have any questions? Do you have any concerns about being able to provide the data by November 23rd? Please let me know.

Thank you,

JB

From: Bradley, Joanne
Sent: Wednesday, November 3, 2021 11:37 AM

To: Midway Sunset Management Issues <management@midwaysunset.com>
Cc: Kott, Bob <RKott@caiso.com>; Ulmer, Andrew <aulmer@caiso.com>;
'shenriksen@midwaysunset.com' <shenriksen@midwaysunset.com>
Subject: CAISO/DOE Data Request - Midway Sunset Cogeneration Facility Unit C
Importance: High

Dear Greg:

The U.S. Department of Energy has directed the CAISO to report specific information in connection with DOE's [September 10, 2021 emergency order](#) under Federal Power Act Section 202(c), which applied to the units at the Midway Sunset Cogeneration Facility Unit C (hereinafter the Covered Resource). The CAISO is working to submit a report with responsive information no later than December 1, 2021. We are coordinating this reporting effort with the California Energy Commission and California Air Resource Board. We request that you provide the following information no later than November 23, 2021.

For each date from September 10, 2021 up to and including November 9, 2021, on which the Covered Resource operated, please provide for each Covered Resource unit,

- (1) The hours of operation, as well as the hours in which any permit limit was exceeded; and
- (2) A description of each permit term that was exceeded and the manner in which such exceedance occurred. If none, please so state.

Please also include the following information in an Excel spreadsheet for each date from September 10, 2021 up to and including November 9, 2021 for each Covered Resource unit:

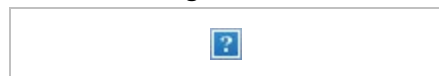
- Actual emissions data in pounds per hour for each Covered Resource unit, for each hour of operations, for CO, NOx, PM2.5, PM10, volatile organic compounds (VOC), and SO2;
- For each category of emissions, please provide permitted operating/emission limits.
- For each category of emissions, any actual incremental emissions above the permit limits, (if units are not equipped with continuous emission monitoring systems, please calculate actual emissions using source test data);
- Stack parameters for each Covered Resource unit: stack height, exit diameter, exit gas temperature, and exit velocity (or volumetric flow rate). Temperature and velocity should reflect values applicable to operations above permit limits;
- The hours that each Covered Resource unit operated in excess of permit limits or operated without otherwise-required permits.

Please let me know if you have any immediate questions. I will follow-up on November 9 to ensure you do not have any outstanding questions and again on November 16 to ensure you can provide the requested data on or before November 23.

Thank you in advance for your attention and response to this request.

Joanne Bradley (JB)

Account Manager



jbradley@caiso.com

916-847-9386

250 Outcropping Way, Folsom, CA 95630