

Metcalfe Energy Center, LLC

1 Blanchard Road
Coyote, CA 95013

July 1, 2021

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105-2097
Attn: Title V Reports

TV Tracking #: 246

1. RECEIVED IN
ENFORCEMENT: 07/01/2021

Re: Metcalf Energy Center #B2183
Title V CEMS Semi-Annual Monitoring Report
Reporting Period: January 1, 2021 – June 30, 2021

To Whom It May Concern:

Enclosed is the Title V CEMS Semi-Annual Monitoring Report for the Metcalf Energy Center (“MEC”) for the reporting period from January 1, 2021 – June 30, 2021.

MEC is currently in compliance with the District CEMS regulations. MEC maintained compliance with the monitoring requirements listed in the Title V permit for MEC during this reporting period.

By signing this report I am certifying that based on information and belief formed after reasonable inquiry, the statements and information in the attached report are true, accurate, and complete.

If you have any questions or require additional information, do not hesitate to contact Rosemary Silva, EHS Specialist, at (408) 361-4954.

Sincerely,


Charles Spandri
Interim Plant Manager
Designated Representative/Responsible Official
Metcalf Energy Center, LLC.

Enclosures: Title V Semi-Annual Report

cc: Region 9

EPA

Metcalf Energy Center
Title V CEMS Semi-Annual Monitoring Report
JANUARY 1, 2021 to JUNE 30, 2021.

Table VII - A
Applicable Limits and Compliance Monitoring Requirements

S-1, GAS TURBINE #1

S-2, GAS TURBINE #2

| Type of Limit | Citation of Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|---------------|-----------------------------------|--------|--|-----------------------------------|------------------------------|-----------------------------|------------|----|
| | | | | | | | Yes | No |
| NOx | BAAQMD 9-3-303 | N | 125 ppm | BAAQMD 1-520.1 | C | CEM | X | |
| NOx | BAAQMD 9-9-301.1.3 | N | 9 ppmv @ 15% O ₂ , dry | BAAQMD 9-9-501 | C | CEM | X | |
| NOx | SIP 9-9-301.3 | Y | 9 ppmv @ 15% O ₂ , dry | SIP 9-9-501 | C | CEM | X | |
| NOx | BAAQMD 9-9-301.2 | N | 0.15 LB/MMBTU or 5 ppmv | BAAQMD 9-9-501 | C | CEM | X | |
| NOx | NSPS, 40 CFR 60.332 (a)(1) | Y | 75 ppmv @ 15% O ₂ , dry, 4-hour rolling average | NSPS 40 CFR 60.334(c.) | C | CEM | X | |
| | | Y | None | 40 CFR 75.10 | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 20a | Y | 19.2 lb/hr for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 20a | Y | 19.2 lb/hr for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load | X | |
| NOx | BAAQMD condition #18310, part 20a | Y | 0.00904 lb/MM BTU for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 20a | Y | 0.00904 lb/MM BTU for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load | X | |

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| Type of Limit | Citation of Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|---------------|-----------------------------------|--------|---|-----------------------------------|------------------------------|--|------------|----|
| | | | | | | | Yes | No |
| NOx | BAAQMD condition #18310, part 20b | Y | 2.5 ppmv, @ 15% O2, dry, for each turbine/HRSG powertrain, 1-hr average except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load | X | |
| NOx | BAAQMD condition #18310, part 20b | Y | 2.5 ppmv, @ 15% O2, dry, for each turbine/HRSG powertrain, 1-hr average except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 21 | Y | 240 lb/gas turbine start-up | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 21 | Y | 480 lb/hr during gas turbine cold start-up or combustor tuning period | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 21 | Y | 80 lb/gas turbine shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 24a | Y | 1362.6 lb/day for S-1, S-3 Gas Turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 25a | Y | 123.4 ton/yr for S-1, S-3 Gas Turbines and S-2, S-4 HRSGs, combined (including emissions from commissioning period) | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 20c | Y | 18.7 lb/hr, for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load and minimum load | X | |
| CO | BAAQMD condition #18310, part 20c | Y | 18.7 lb/hr, for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |

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|---------------|-----------------------------------|--------|---|-----------------------------------|--------------------------------------|--|------------|----|
| | | | | | | | Yes | No |
| CO | BAAQMD condition #18310, part 20d | Y | 0.0088 lb/MM BTU for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load and minimum load | X | |
| CO | BAAQMD condition #18310, part 20d | Y | 0.0088 lb/MM BTU for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 20d | Y | 4 ppmv @ 15% O ₂ , dry, for each turbine/HRSG powertrain, 3-hr average, except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load and minimum load | X | |
| CO | BAAQMD condition #18310, part 20d | Y | 4 ppmv @ 15% O ₂ , dry, for each turbine/HRSG powertrain, 3-hr average, except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 20d | Y | 4 ppmv @ 15% O ₂ , dry, for each turbine/HRSG powertrain, 3-hr average, except during turbine startup and shutdown | 40 CFR 64.3 (b)(4)(ii) | At least 4 times per hour (CAM Plan) | CEM | X | |
| CO | BAAQMD condition #18310, part 21 | Y | 2,514 lb/gas turbine startup | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 21 | Y | 5028 lb/hr during gas turbine cold start-up or combustor tuning period | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 21 | Y | 902 lb/gas turbine shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 24b | Y | 7,891.1 lb/day for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, Part 27b | C | CEM | X | |

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|-----------------|-----------------------------------|--------|--|--|------------------------------|---|------------|----|
| | | | | | | | Yes | No |
| CO | BAAQMD condition #18310, part 25b | Y | 588 ton/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined (includes emissions from commissioning period) | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO ₂ | | Y | None | 40 CFR 75.10 | C | fuel flow monitor and CO ₂ calculation | X | |
| SO ₂ | BAAQMD 9-1-301 | Y | GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours | | N | | X | |
| SO ₂ | BAAQMD 9-1-302 | Y | 300 ppm (dry) | | N | | X | |
| SO ₂ | NSPS 40 CFR 60.333(a) | Y | 0.015% (vol.) @ 15% O ₂ (dry) | NSPS 40 CFR 60.334(h) | N | | X | |
| SO ₂ | NSPS 40 CFR 60.333(b) | Y | Total sulfur content of fuel not to exceed 0.8 percent by weight (8000 ppmw) | NSPS 40 CFR 60.334(h)(3)(i) and BAAQMD condition #18310, Part 45 | P/M | Fuel sulfur content testing | X | |
| SO ₂ | | Y | None | 40 CFR 75.11, 40 CFR 75, Appendix D, part 2.3 | P/A | Fuel measurements, calculations | X | |
| SO ₂ | BAAQMD condition #18310, part 20g | Y | 1.28 lb/hr, for each turbine/HRSH powertrain | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| SO ₂ | BAAQMD condition #18310, part 20g | Y | 1.28 lb/hr, for each turbine/HRSH powertrain | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| SO ₂ | BAAQMD condition #18310, part 20g | Y | 0.0006lb/MM BTU, for each turbine/HRSG powertrain | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |

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|------------------|-----------------------------------|--------|---|----------------------------------|------------------------------|-----------------------------|------------|----|
| | | | | | | | Yes | No |
| SO2 | BAAQMD condition #18310, part 20g | Y | 0.0006lb/MM BTU, for each turbine/HRSG powertrain | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| SO2 | BAAQMD condition #18310, part 24e | Y | 57.9 lb/day for each turbine/HRSG powertrain | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| SO2 | BAAQMD condition #18310, part 25e | Y | 10.6 ton /yr for each turbine/HRSG powertrain (includes emissions from commissioning period) | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| Opacity | BAAQMD 6-1-301 | N | > Ringelmann No. 1 for no more than 3 minutes in any hour | | N | | X | |
| Opacity | SIP 6-301 | Y | > Ringelmann No. 1 for no more than 3 minutes in any hour | | N | | X | |
| FP | BAAQMD 6-1-310.3 | N | 0.15 grain/dscf @ 6% O2 | | N | | X | |
| FP | SIP 6-310.3 | Y | 0.15 grain/dscf @ 6% O2 | | N | | X | |
| PM ₁₀ | BAAQMD condition #18310, part 20h | Y | 9 lb/hr, for each turbine/HRSG powertrain | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| PM ₁₀ | BAAQMD condition #18310, part 20h | Y | 0.00452 lb/MM BTU, for each turbine/HRSG powertrain | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| PM ₁₀ | BAAQMD condition #18310, part 24d | Y | 510 lb/day for S-1, S-3 Gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| PM ₁₀ | BAAQMD condition #18310, part 25d | Y | 83.34 ton/yr for S-1, S-3 Gas turbines and S-2, S-4 HRSGs, combined (including emissions from commissioning period) | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |

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|-----------------|-----------------------------------|--------|--|-----------------------------------|------------------------------|--------------------------------|------------|----|
| | | | | | | | Yes | No |
| POC | BAAQMD condition #18310, part 20f | Y | 2.7 lb/hr (as CH4) for each turbine/HRSG powertrain except during turbine startup and shut down | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| POC | BAAQMD condition #18310, part 20f | Y | 0.00126 lb/MM BTU (as CH4) for each turbine/HRSG powertrain except during turbine startup and shut down | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| POC | BAAQMD condition #18310, part 21 | Y | 48 lb/gas turbine startup | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| POC | BAAQMD condition #18310, part 21 | Y | 16 lb/gas turbine shutdown | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| POC | BAAQMD condition #18310, part 21 | Y | 96 lb/hr during gas turbine cold start up or combustor tuning period | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| POC | BAAQMD condition #18310, part 24c | Y | 230.2 lb/day (as CH4) for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| POC | BAAQMD condition #18310, part 25c | Y | 28 ton/yr) for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined (including emissions from commissioning period) | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| NH ₃ | BAAQMD condition #18310, part 20e | N | 5 ppmv, @ 15% O2 dry, averaged over 3 hrs for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, part 27c | C | Ammonia injection rate monitor | X | |
| Formaldehyde | BAAQMD condition #18310, part 26a | N | 3796 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 29 | P/D | Records, calculations | X | |

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| Type of Limit | Citation of Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|--|-----------------------------------|--------|---|-----------------------------------|---------------------------------|--|------------|----|
| | | | | | | | Yes | No |
| Formaldehyde | BAAQMD condition #18310, part 26a | N | 3796 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 33 | P/every two years on P-1 or P-2 | Source Test | X | |
| Benzene | BAAQMD condition #18310, part 26b | N | 480 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 29 | P/D | Records, calculations | X | |
| Benzene | BAAQMD condition #18310, part 26b | N | 480 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 33 | P/every two years on P-1 or P-2 | Source Test | X | |
| Specific PAH Compounds | BAAQMD condition #18310, part 26c | N | 22.8 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 29 | P/D | Records, calculations | X | |
| Specific PAH Compounds | BAAQMD condition #18310, part 26c | N | 22.8 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 33 | P/every two years on P-1 or P-2 | Source Test | X | |
| Heat input limit | BAAQMD condition #18310, part 14 | Y | 2,124 MM BTU/hr (HHV), 3-hr average for each turbine/HRSG powertrain | BAAQMD condition #18310, part 27a | C | Fuel meter, firing monitor, calculations | X | |
| Heat input limit | BAAQMD condition #18310, part 15 | Y | 49,908 MM BTU/calendar day (HHV), for each turbine/HRSG powertrain | BAAQMD condition #18310, part 27a | C | Fuel meter, firing monitor, calculations | X | |
| Heat input limit | BAAQMD condition #18310, part 16 | Y | 35,274,060 MM BTU/yr (HHV) for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 27a | C | Fuel meter, firing monitor, calculations | X | |
| Cold Start-Up, Combustor Tuning Firing Limit | BAAQMD condition #18310, part 48 | Y | 30 firing hours per year for S-1 and S-3 gas turbines, combined for purposes of cold start-up or combustor tuning | BAAQMD condition #18310, part 49 | P/E | Recordkeeping | X | |

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Table VII - B

Applicable Limits and Compliance Monitoring Requirements

S-3, HEAT RECOVERY STEAM GENERATOR #1

S-4, HEAT RECOVERY STEAM GENERATOR #2

| Type of Limit | Citation of Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|---------------|-----------------------------------|--------|--|---|------------------------------|-----------------------------|------------|----|
| | | | | | | | Yes | No |
| NOx | BAAQMD 9-9-301.1.3 | N | 9 ppmv @ 15% O2, dry | BAAQMD 9-9-501 | C | CEM | X | |
| NOx | SIP 9-9-301.3 | Y | 9 ppmv @ 15% O2, dry | SIP 9-9-501 | C | CEM | X | |
| NOx | BAAQMD 9-9-301.2 | N | 0.15 LB/MMBTU or 5 ppmv | BAAQMD 9-9-501 | C | CEM | X | |
| NOx | NSPS, 40 CFR 60.44b (a)(4)(i) | Y | 0.2 lb/ MM BTU except, during start-up, shutdown or malfunction | NSPS 40 CFR 60.48b (b)(2) and BAAQMD Condition #18310, part 27b | C | CEM | X | |
| NOx | NSPS, 40 CFR 60.332 (a)(1) | Y | 75 ppmv @ 15% O2, dry, 4-hour rolling average | NSPS 40 CFR 60.334(c.) and BAAQMD Condition #18310, part 27b | C | CEM | X | |
| NOx | | Y | None | 40 CFR 75.10 | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 20a | Y | 19.2 lb/hr for each turbine/HRSg powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 20a | Y | 19.2 lb/hr for each turbine/HRSg powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load | X | |
| NOx | BAAQMD condition #18310, part 20a | Y | 0.00904 lb/MM BTU for each turbine/HRSg powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |

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|---------------|-----------------------------------|--------|---|-----------------------------------|------------------------------|--|------------|----|
| | | | | | | | Yes | No |
| NOx | BAAQMD condition #18310, part 20a | Y | 0.00904 lb/MM BTU for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load | X | |
| NOx | BAAQMD condition #18310, part 20b | Y | 2.5 ppmv, @ 15% O2, dry, for each turbine/HRSG powertrain, 1-hr average except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load | X | |
| NOx | BAAQMD condition #18310, part 20b | Y | 2.5 ppmv, @ 15% O2, dry, for each turbine/HRSG powertrain, 1-hr average except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 24a | Y | 1362.6 lb/day for S-1, S-3 Gas Turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| NOx | BAAQMD condition #18310, part 25a | Y | 123.4 ton/yr for S-1, S-3 Gas Turbines and S-2, S-4 HRSGs, combined (including emissions from commissioning period) | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 20c | Y | 18.7 lb/hr, for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load and minimum load | X | |
| CO | BAAQMD condition #18310, part 20c | Y | 18.7 lb/hr, for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 20d | Y | 0.0088 lb/MM BTU for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load and minimum load | X | |

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|-----------------|-----------------------------------|--------|---|-----------------------------------|------------------------------|---|------------|----|
| | | | | | | | Yes | No |
| CO | BAAQMD condition #18310, part 20d | Y | 0.0088 lb/MM BTU for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 20d | Y | 4 ppmv @ 15% O ₂ , dry, for each turbine/HRSG powertrain, 3-hr average, except during turbine startup and shutdown | BAAQMD condition #18310, Part 31 | P/A | Source Test at maximum load and minimum load | X | |
| CO | BAAQMD condition #18310, part 20d | Y | 4 ppmv @ 15% O ₂ , dry, for each turbine/HRSG powertrain, 3-hr average, except during turbine startup and shutdown | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 24b | Y | 7,891.1 lb/day for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO | BAAQMD condition #18310, part 25b | Y | 588 ton/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined (includes emissions from commissioning period) | BAAQMD condition #18310, Part 27b | C | CEM | X | |
| CO ₂ | | Y | None | 40 CFR 75.10 | C | fuel flow monitor and CO ₂ calculation | X | |
| SO ₂ | BAAQMD 9-1-301 | Y | GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours | | N | | X | |
| SO ₂ | BAAQMD 9-1-302 | Y | 300 ppm (dry) | | N | | X | |
| SO ₂ | NSPS 40 CFR 60.333(a) | Y | 0.015% (vol.) @ 15% O ₂ (dry) | NSPS 40 CFR 60.334(h) | N | | X | |

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|-----------------|-----------------------------------|--------|--|---|------------------------------|---------------------------------|------------|----|
| | | | | | | | Yes | No |
| SO ₂ | NSPS 40 CFR 60.333(b) | Y | Total sulfur content of fuel not to exceed 0.8 percent by weight (8000 ppmw) | NSPS 40 CFR 60.334(h)(3)(ii) and BAAQMD condition #18310, Part 45 | P/M | Fuel sulfur content testing | X | |
| SO ₂ | | Y | None | 40 CFR 75.11, 40 CFR 75, Appendix D, part 2.3 | P/A | Fuel measurements, calculations | X | |
| SO ₂ | BAAQMD condition #18310, part 20g | Y | 1.28 lb/hr, for each turbine/HRSH powertrain | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| SO ₂ | BAAQMD condition #18310, part 20g | Y | 1.28 lb/hr, for each turbine/HRSH powertrain | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| SO ₂ | BAAQMD condition #18310, part 20g | Y | 0.0006lb/MM BTU, for each turbine/HRSG powertrain | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| SO ₂ | BAAQMD condition #18310, part 20g | Y | 0.0006lb/MM BTU, for each turbine/HRSG powertrain | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| SO ₂ | BAAQMD condition #18310, part 24e | Y | 57.9 lb/day for each turbine/HRSG powertrain | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| SO ₂ | BAAQMD condition #18310, part 25e | Y | 10.6 ton /yr for each turbine/HRSG powertrain (includes emissions from commissioning period) | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| Opacity | BAAQMD 6-1-301 | N | > Ringelmann No. 1 for no more than 3 minutes in any hour | | N | | X | |
| Opacity | SIP 6-301 | Y | > Ringelmann No. 1 for no more than 3 minutes in any hour | | N | | X | |

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| Type of Limit | Citation of Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|------------------|-----------------------------------|--------|--|----------------------------------|------------------------------|-----------------------------|------------|----|
| | | | | | | | Yes | No |
| FP | BAAQMD 6-1-310.3 | N | 0.15 grain/dscf @ 6% O2 | | N | | X | |
| FP | SIP 6-310.3 | Y | 0.15 grain/dscf @ 6% O2 | | N | | X | |
| PM | NSPS 40 CFR 60.42a (b) | Y | < 20% opacity, 6 minute average, except one six minute period/hr up to 27% opacity | | N | | X | |
| PM ₁₀ | BAAQMD condition #18310, part 20h | Y | 9 lb/hr, for each turbine/HRSG powertrain | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| PM ₁₀ | BAAQMD condition #18310, part 20h | Y | 0.00452 lb/MM BTU, for each turbine/HRSG powertrain | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| PM ₁₀ | BAAQMD condition #18310, part 24d | Y | 510 lb/day for S-1, S-3 Gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 24 | P/D | Records, calculations | X | |
| PM ₁₀ | BAAQMD condition #18310, part 25d | Y | 83.34 ton/yr for S-1, S-3 Gas turbines and S-2, S-4 HRSGs, combined (including emissions from commissioning period) | BAAQMD condition #18310, part 25 | P/D | Records, calculations | X | |
| POC | BAAQMD condition #18310, part 20f | Y | 2.7 lb/hr (as CH ₄) for each turbine/HRSG powertrain except during turbine startup and shut down | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| POC | BAAQMD condition #18310, part 20f | Y | 0.00126 lb/MM BTU (as CH ₄) for each turbine/HRSG powertrain except during turbine startup and shut down | BAAQMD condition #18310, part 31 | P/A | Source test at maximum load | X | |
| POC | BAAQMD condition #18310, part 24c | Y | 230.2 lb/day (as CH ₄) for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |

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| Type of Limit | Citation of Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|------------------------|-----------------------------------|--------|--|-----------------------------------|---------------------------------|--|------------|----|
| | | | | | | | Yes | No |
| POC | BAAQMD condition #18310, part 25c | Y | 28 ton/yr) for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined (including emissions from commissioning period) | BAAQMD condition #18310, part 28 | P/D | Records, calculations | X | |
| NH ₃ | BAAQMD condition #18310, part 20e | N | 5 ppmv, @ 15% O2 dry, averaged over 3 hrs for each turbine/HRSG powertrain, except during turbine startup and shutdown | BAAQMD condition #18310, part 27c | C | Ammonia injection rate monitor | X | |
| Formaldehyde | BAAQMD condition #18310, part 26a | N | 3796 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 29 | P/D | Records, calculations | X | |
| Formaldehyde | BAAQMD condition #18310, part 26a | N | 3796 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 33 | P/every two years on P-1 or P-2 | Source Test | X | |
| Benzene | BAAQMD condition #18310, part 26b | N | 480 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 29 | P/D | Records, calculations | X | |
| Benzene | BAAQMD condition #18310, part 26b | N | 480 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 33 | P/every two years on P-1 or P-2 | Source Test | X | |
| Specific PAH Compounds | BAAQMD condition #18310, part 26c | N | 22.8 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 29 | P/D | Records, calculations | X | |
| Specific PAH Compounds | BAAQMD condition #18310, part 26c | N | 22.8 lb/yr for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 33 | P/every two years on P-1 or P-2 | Source Test | X | |
| Heat input limit | BAAQMD condition #18310, part 14 | Y | 2,124 MM BTU/hr (HHV), 3-hr average for each turbine/HRSG powertrain | BAAQMD condition #18310, part 27a | C | Fuel meter, firing monitor, calculations | X | |

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| Type of Limit | Citation of Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|-------------------|----------------------------------|--------|---|-----------------------------------|------------------------------|--|------------|----|
| | | | | | | | Yes | No |
| Heat input limit | BAAQMD condition #18310, part 15 | Y | 49,908 MM BTU/calendar day (HHV), for each turbine/HRSG powertrain | BAAQMD condition #18310, part 27a | C | Fuel meter, firing monitor, calculations | X | |
| Heat input limit | BAAQMD condition #18310, part 16 | Y | 35,274,060 MM BTU/yr (HHV) for S-1, S-3 gas turbines and S-2, S-4 HRSGs, combined | BAAQMD condition #18310, part 27a | C | Fuel meter, firing monitor, calculations | X | |
| Prohibited firing | BAAQMD condition #18310, part 17 | Y | Each HRSG duct burner may not be fired unless its associated gas turbine is being fired | BAAQMD condition #18310, part 27a | C | Fuel meter, firing monitor, calculations | X | |

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Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-5 COOLING TOWER

| Type of Limit | Citation of Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|------------------------|----------------------------------|--------|---|----------------------------------|------------------------------|---|------------|----|
| | | | | | | | Yes | No |
| Opacity | BAAQMD 6-1-301 | N | >Ringelmann No.1 for no more than 3 minutes in any hour | | N | | X | |
| FP | BAAQMD 6-1-310 | N | 0.15 gr/dscf | | N | | X | |
| Opacity | SIP 6-301 | Y | >Ringelmann No.1 for no more than 3 minutes in any hour | | N | | X | |
| FP | SIP 6-310 | Y | 0.15 gr/dscf | | N | | X | |
| Drift Rate | BAAQMD Condition #18310, part 46 | Y | 0.0005% | BAAQMD Condition #18310, part 46 | P | Initial Source Test | X | |
| Total Dissolved Solids | BAAQMD Condition #18310, part 46 | Y | 5438 ppmw (mg/l) | BAAQMD Condition #18310, part 46 | P/D | Sampling and Testing of cooling tower water | X | |

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Table VII – D
Applicable Limits and Compliance Monitoring Requirements
 S-6 STATIONARY STANDBY GENERATOR SET

| Type of Limit | Citation of Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|--------------------------------|--------------------------------|--------|---|---------------------------------|------------------------------|-----------------|--------------------------------|----|
| | | | | | | | Yes | No |
| Opacity | BAAQMD 6-1-301 | N | >Ringelmann No.1 for no more than 3 minutes in any hour | | N | | SOURCE NOT COMMISSIONED | |
| Opacity | SIP 6-301 | Y | >Ringelmann No.1 for no more than 3 minutes in any hour | | N | | | |
| FP | BAAQMD 6-1-310.3 | N | 0.15 gr/dscf @ 6% O2 | | N | | | |
| FP | SIP 6-310.3 | Y | 0.15 gr/dscf @ 6% O2 | | N | | | |
| SO ₂ | BAAQMD 9-1-301 | Y | GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours | | N | | | |
| SO ₂ | BAAQMD 9-1-302 | Y | 300 ppm (dry) | | N | | | |
| Heat Input Limit | BAAQMD Condition #22231 part 1 | Y | 14.1 MM BTU/hr | | N | | | |
| Reliability Related activities | BAAQMD Condition #22231 part 2 | Y | 100 hours per calendar year | BAAQMD Condition #22231 part 6 | P/E | Recordkeeping | | |
| NO _x , CO and POC | BAAQMD Condition #22231 part 3 | Y | 1.0 g NO _x /bhp-hr 2.75 g CO/bhp-hr 1.0 g POC/bhp-hr | | N | | | |

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Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-7 FIRE PUMP DIESEL ENGINE

| Type of Limit | Citation of Limit | FE Y/N | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|--------------------------------|----------------------------------|--------|---|-----------------------------------|------------------------------|----------------------------------|------------|----|
| | | | | | | | Yes | No |
| Opacity | BAAQMD 6-1-301 | N | >Ringelmann No.2 for no more than 3 minutes in any hour | | N | | X | |
| Opacity | SIP 6-301 | Y | >Ringelmann No.2 for no more than 3 minutes in any hour | | N | | X | |
| FP | BAAQMD 6-1-310.3 | N | 0.15 gr/dscf @ 6% O2 | | N | | X | |
| FP | SIP 6-310.3 | Y | 0.15 gr/dscf @ 6% O2 | | N | | X | |
| SO ₂ | BAAQMD 9-1-301 | Y | GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours | | N | | X | |
| Fuel Sulfur Content | BAAQMD 9-1-304 | Y | Sulfur Content ≤ 0.5% by weight | | N | | X | |
| SO ₂ | BAAQMD Condition #19610, part 39 | N | Sulfur content of fuel less than 0.05% by weight | BAAQMD Condition #19610, part 39 | P/E | | X | |
| Reliability Related activities | BAAQMD Condition #21917 part 1 | Y | 30 hours per calendar year | BAAQMD Condition #21917 part 2, 3 | P/E | Totalizing Meter, record keeping | X | |