1200 Arcy Lane Pittsburg CA 94505

October 27, 2023

Director of Compliance and Enforcement Division Bay Area Air Quality Management District, Suite 600 375 Beale Street San Francisco, CA 94105-2066

TV Tracking #:811

1. D RECEIVED IN 10/31/2023 ENFORCEMENT:

Re: Delta Energy Center Facility B2095 Title V Semi-Annual Continuous Emission Monitoring Report Reporting Period: April 1, 2023 through Sept 30, 2023

Attn: Title V Reports

Enclosed is the Title V <u>Semi-Annual Continuous Emissions Monitoring Report</u> for the Delta Energy Center (DEC).

During the reporting period DEC was intermittently in compliance with Title V regulations. As reported to the District the hourly averages for Unit 3 (S-5) NO_X PPM, NO_X lb./mmBtu, and NOx lb./hr. drifted above their limit on August 16th, 2023. The event occurred after maintenance and subsequent calibration of Unit 3 CO and O2 analyzer. The excess emissions were reported to BAAQMD on August 17th, 2023.

If you have any questions, please contact me at (925) 252-2096 or Diana, EHS Specialist at (925) 252-2085.

As the Responsible Official, I certify that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

Sincerely,

Alloneo Rodrigery

Alfonso Rodriguez Authorized Signatory and Plant Manager

Attachment

cc: John Heiser, California Energy Commission

Table VII – A Applicable Limits and Compliance Monitoring Requirements S-1, S-3, S-5 T S-2, S-4, S-6 Heat Recovery Steam Generators

| Type of Limit | Citation of | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compli | ance |
|------------------|--|-----------|-----------------------------|---|--|------------------------------------|--------------------|--|------|
| | | | | n cost Whether | | | | Yes | No |
| NOx | BAAQMD 9-3-303 | N | | 125 ppm | BAAQMD 1-520.1 | С | CEM | x | |
| | BAAQMD 9-9-301.2 | N | | 0.15 lb/MW-hr or 5 ppmv | BAAQMD 9-9-501 | С | CEM | x | |
| NOx | SIP 9-9-301.3 | N | | 9 ppmv @ 15% O ₂ , dry | SIP 9-9-501 | С | CEM | x | |
| | NSPS, 40 CFR 60.44 (a)(4) | Y | | 0.2 lb/MMBtu, 30-day rolling average | 40 CFR 60.48 (b) and BAAQMD condition #17154 | С | CEM | x | |
| NOx | NSPS, 40 CFR 60.332 (a)(1) | Y | | 75 ppmv, @ 15% O ₂ , dry | 40 CFR 60.334(c) and BAAQMD Condition 17154, Part 39b | С | CEM | x | |
| | | Y | | None | 40 CFR 75.10 | С | CEM | x | |
| NOx | BAAQMD condition #17154, part 22a | Y | | 19,2 lb/hr, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 39b | С | CEM | Intermittent RCA 08U27 submitted to the district on August 17, 2023 | |

| Type of Limit | Citation of | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Complia | ance |
|------------------|--|-----------|-----------------------------|--|--|------------------------------------|-----------------------------------|--|------|
| | | | | | | | | Yes | No |
| NOx | BAAQMD condition #17154, part 22a | Y | | 19.2 lb/hr, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 43 | P/A | Source test at maximum load | x | |
| NOx | BAAQMD condition #17154, part 22a | Y | | 0.00904 lb/MM BTU, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 39b | С | CEM | Intermittent RCA 08U27 submitted to the district on August 17, 2023 | |
| NOx | BAAQMD condition #17154, part 22a | Y | | 0.00904 lb/MM BTU, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 43 | P/A | Source test at maximum load | x | |
| NOx | BAAQMD condition #17154, part 22b | Y | | 2.5 ppmv, @ 15% O₂, dry, for each turbine and HRSG combined, 1-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 43 | P/A | Source test at maximum load | x | |

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Complia | nce |
|------------------|--|-----------|-----------------------------|---|--|------------------------------------|--|--|-----|
| | | | Duto | | | | | Yes | No |
| NOx | BAAQMD condition #17154, part 22b | Y | | 2.5 ppmv, @ 15% O ₂ , dry, for each turbine and HRSG combined, 1-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 39b | C | CEM | Intermittent RCA 08U27 submitted to the district on August 17, 2023 | |
| NOx | BAAQMD condition #17154, part 23 | Y | | 240 lb/turbine during start-up | BAAQMD condition #17154, part 39b | C | СЕМ | x | |
| | BAAQMD condition #17154, part 23 | Y | | 80 lb/turbine during shutdown | BAAQMD condition #17154, part 39b | C | CEM | x | |
| | BAAQMD condition #17154, part 23 | Y | | 300 lb/turbine during steam turbine cold start-up or combustor tuning period | BAAQMD condition #17154, part 39b | С | CEM | x | |
| NOx | BAAQMD condition #17154, part 36a | Y | | 1990.8 lb/day for turbines and HRSGs combined | BAAQMD condition #17154, part 39b | С | CEM | x | |
| | BAAQMD condition #17154, part 37a | Y | | 240.2 ton/yr for turbines and HRSGs combined | BAAQMD condition #17154, part 39b | C | CEM | x | |
| CO | BAAQMD condition #17154, part 22c | Y | | 46.75 lb/hr, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 43 | P/A | Source test at maximum and minimum load | x | |

| Type of Limit | Citation of | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compli | ance |
|------------------|--|-----------|-----------------------------|--|--|------------------------------------|--|--------|------|
| | | | | | | | | Yes | No |
| со | BAAQMD condition #17154, part 22c | Y | | 46.75 lb/hr, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 39b | C | CEM | x | |
| | BAAQMD condition #17154, part 22c | Y | | 0.022 lb/MM BTU, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 43 | P/A | Source test at maximum and minimum load | x | |
| | BAAQMD condition #17154, part 22c | Y | | 0.022 lb/MM BTU, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 39b | С | CEM | x | |
| со | BAAQMD condition #17154, part 22d | Y | | 10 ppmv, @ 15% O ₂ , dry, for each turbine and HRSG combined, 3-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 39b | C | CEM | x | |

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compli | ance |
|------------------|--|-----------|-----------------------------|--|--|------------------------------------|--|--------|------|
| | | | | | | | | Yes | No |
| со | BAAQMD condition #17154, part 22d | Y | | 10 ppmv, @ 15% O ₂ , dry, for each turbine and HRSG combined, 3-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 43 | P/A | Source test at maximum and minimum load | X | |
| CO | BAAQMD condition #17154, part 23 | Y | | 2514 lb/turbine during start-up | BAAQMD condition #17154, part 39b | C | CEM | x | |
| CO | BAAQMD condition #17154, part 23 | Y | | 902 lb/turbine during shutdown | BAAQMD condition #17154, part 39b | С | CEM | x | |
| | BAAQMD condition #17154, part 23 | Y | | 9,750 lb/turbine during steam turbine cold start-up or combustor tuning period | BAAQMD condition #17154, part 39b | С | CEM | x | |
| CO | BAAQMD condition #17154, part 36b | Y | | 12,756.4 lb/day for turbines and HRSGs combined | BAAQMD condition #17154, part 39b | С | CEM | x | |
| CO | BAAQMD condition #17154, part 37b | Y | | 1,105.4 ton/yr for turbines and HRSGs combined | BAAQMD condition #17154, part 39b | С | CEM | x | |
| CO2 | | 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 | | N/A | |

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring t Frequency (P/C/N) | Monitoring Type | Compli | ance |
|------------------|--|-----------|-----------------------------|--|---|--------------------------------------|--|--------|------|
| | | | | | | (| | Yes | No |
| | BAAQMD 9-1-302 | Y | | 300 ppm (dry) | | N | | N/A | |
| 2 | NSPS 40 CFR 60.43a (b)(2) | | | 0.2 lb/MMBtu, 24 hr average except during startup, shutdown | | N | | N/A | |
| SO ₂ | NSPS 40 CFR 60.333 | Y | | 0.015% (vol) @ 15% O ₂ (dry) or total sulfur content of fuel less than or equal to 0.8% sulfur by weight (8,000 ppmw) | NSPS 40 CFR 60.334 (h) (3) (ii) and BAAQMD Condition 17154, Part 57 | P/M | Fuel sulfur content testing | х | |
| SO ₂ | | Y | | None | 40 CFR 75.11, 40 CFR 75, Appendix D, part 2.3 | | Fuel measure- ments, calculations | x | |
| | BAAQMD condition #17154, part 14 | Y | | Fuel sulfur content of 1.0 gr/100 scf | BAAQMD condition #17154, part 57 | P/M | Fuel testing | x | |
| | BAAQMD condition #17154, part 37e | Ŷ | | 18.42 ton/yr for turbines and HRSGs combined | BAAQMD condition #17154, part 40 | P/D | Fuel sulfur content testing, natural gas usage records, calculations | x | |
| Opacity | BAAQMD 6-1-301 | N | | > Ringelmann No. 1 for no more than 3 minutes in any hour | | N | | N/A | |
| Opacity | SIP 6-301 | Y | | > Ringelmann No. 1 for no more than 3 minutes in any hour | | N | | N/A | |
| FP | BAAQMD 6-1-310 | N | | 0.15 grain/dscf | | N | | N/A | |

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compl | iance |
|------------------|--|-----------|-----------------------------|---|---|------------------------------------|-----------------------------------|---|-------|
| | | | | | | | | Yes N/A N/A N/A N/A N/A N/A X X X X X X X X X X X X X | No |
| FP | SIP 6-310 | Y | | 0.15 grain/dscf | | N | | N/A | |
| | BAAQMD 6-1-310.3 | N | | 0.15 grain/dscf @ 6% O2 | | N | | N/A | |
| | SIP 6-310.3 | Y | | 0.15 grain/dscf @ 6% O ₂ | | N | | N/A | |
| Opacity | BAAQMD 6-1-304 | N | | During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours | | N | | N/A | |
| Opacity | SIP 6-304 | Y | | During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours | | Ν | | N/A | |
| PM ₁₀ | BAAQMD condition #17154, part 22h | Y | | 9.0 lb/hr, for each turbine and HRSG combined | BAAQMD condition #17154, part 43 | P/A | Source test at maximum load | x | |
| PM ₁₀ | BAAQMD condition #17154, part 22h | Y | | 0.00424 lb/MM BTU, for each turbine and HRSG combined | BAAQMD condition #17154, part 43 | P/A | Source test at maximum load | × | |
| PM ₁₀ | BAAQMD condition #17154, part 36d | Ŷ | | 648 lb/day for turbines and HRSGs combined | BAAQMD condition #17154, part 40 | P/D | Records, calculations | x | |
| | BAAQMD condition #17154, part 37d | Y | | 118.26 ton/yr for turbines and HRSGs combined | BAAQMD condition #17154, part 40 | P/D | Records, calculations | х | |
| POC | BAAQMD condition #17154, part 22f | Y | | 5.33 lb/hr (as CH4) for each turbine, and HRSG combined except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 43 | P/A | Source test at maximum load | x | |

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compli | ance |
|------------------|--|-----------|-----------------------------|--|--|------------------------------------|--------------------------------------|--------|------|
| | | | | | onation | (i , only | 1,100 | Yes | No |
| POC | BAAQMD condition #17154, part 22f | Y | | 0.00251 lb/MM BTU (as CH4) for each turbine, and HRSG combined except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 43 | P/A | Source test at maximum load | x | |
| | BAAQMD condition #17154, part 23 | Y | | 48 lb/turbine during start-up | BAAQMD condition #17154, part 40 | P/D | Records, calculations | x | |
| POC | BAAQMD condition #17154, part 23 | Y | | 16 lb/turbine during shutdown | BAAQMD condition #17154, part 40 | P/D | Records, calculations | x | |
| | BAAQMD condition #17154, part 23 | Y | | 96 lb/turbine during steam turbine cold start-up or combustor tuning period | BAAQMD condition #17154, part 40 | P/D | Records, calculations | x | |
| | BAAQMD condition #17154, part 36c | Y | | 478.2 lb/day (as CH4) for turbines and HRSGs combined | BAAQMD condition #17154, part 40 | P/D | Records, calculations | x | |
| POC | BAAQMD condition #17154, part 37c | Y | | 64.68 ton/yr for turbines and HRSGs combined | BAAQMD condition #17154, part 40 | P/D | Records, calculations | x | |
| NH3 | BAAQMD condition #17154, Part 22e | N | | 10 ppmv, @ 15% O ₂ , dry, averaged over 3 hrs for each turbine and HRSG combined except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period | BAAQMD condition #17154, part 39c | С | Ammonia injection rate monitor | × | |

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compli | ance |
|------------------------|--|-----------|-----------------------------|---|--|--|--|--------|------|
| | | | | | | | | Yes | No |
| Formal- dehyde | BAAQMD condition #17154, part 38a | N | | 5691 lb/yr for turbine and HRSGs combined | BAAQMD condition #17154, part 41 | P/D | Records, calculations | x | |
| Formal- dehyde | BAAQMD condition #17154, part 34a | N | | 5691 lb/yr for turbine and HRSGs combined | BAAQMD condition #17154, part 44 | P/every two years on P-1, P- 2, or P-3 | Source test | x | |
| Benzene | BAAQMD condition #17154, part 38b | N | | 704 lb/yr for turbines, HRSGs, and auxiliary boiler combined | BAAQMD condition #17154, part 41 | P/D | Records, calculations | x | |
| | BAAQMD condition #17154, part 38b | N | | 704 lb/yr for turbines and HRSGs combined | BAAQMD condition #17154, part 45 | P/every two years on P-1, P- 2, or P-3 | Source test | х | |
| Specified PAH's | BAAQMD condition #17154, Part 38c | N | | 120 lb/yr for turbines, HRSGs, and auxiliary boiler combined | BAAQMD condition #17154, part 41 | P/D | Records, calculations | x | |
| | BAAQMD condition #17154, Part 38c | N | | 120 lb/yr for turbines and HRSGs combined | BAAQMD condition #17154, part 41 | P/every two years on P-1, P- 2, or P-3 | Source test | x | |
| Heat input limit | | Y | | None | 40 CFR 75.10 | C | Fuel meter, firing monitor, calculations | x | |
| Heat input limit | BAAQMD condition #17154, part 15 | Y | | 2,125 MM BTU/hr (HHV), 3-hr average for each Turbine and HRSG, total | BAAQMD condition #17154, part 39a | С | Fuel meter, firing monitor, calculations | x | |
| | BAAQMD condition #17154, part 16 | Y | | 50,024 MM BTU/calendar day (HHV), for each Turbine and HRSG, total | BAAQMD condition #17154, part 39a | с | fuel meter, firing monitor, calculations | x | |

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compli | ance |
|------------------|----------------------|-----------|-----------------------------|--------------------------|---------------------------------------|------------------------------------|--------------------|--------|------|
| | | | | | | | | Yes | No |
| Heat | BAAQMD | Y | | 53,188,532 MM BTU/yr | BAAQMD | С | fuel meter, | x | |
| Input | condition | | | (HHV) for S-1, S-3, S-5, | condition | | firing monitor, | | |
| Limit | #17154, | | | Turbines and S-2, S-4, | #17154, | | calculations | | |
| | part 17 | | | S-6 HRSGs combined | part 39a | | | | |
| Steam | BAAQMD | Y | | 30 hours per year per | BAAQMD | P/H | records | х | |
| turbine | condition | 1 | | turbine | condition | | | | |
| cold | #17154, | | | | #17154, | | | | |
| start-up | part 24 | | | | part 62 | | | | |
| or | | | | | | | | | |
| combus- | | | | | | | | | |
| tor tuning | | | | | | | | | |

Table VII – BApplicable Limits and Compliance Monitoring RequirementsS-9, COOLING TOWER

| Type of | Citation of | FE | Future Effecti | | Monitoring Requirement | Monitoring Frequency | Monitoring | Com | pliance |
|-------------------------------|---|-----|-------------------|---|---|-------------------------|--|-----|---------|
| Limit | Limit | Y/N | Date | Limit | Citation | (P/C/N) | Туре | Yes | No |
| Opacity | BAAQMD 6-1-301 | N | | > Ringelmann 1.0 for no more than 3 minutes in any hour | | N | | N/A | |
| Opacity | SIP 6-301 | Y | | > Ringelmann 1.0 for no more than 3 minutes in any hour | | N | | N/A | |
| FP | BAAQMD Regulation 6-1-310 | N | | 0.15 gr/dscf | | N | | N/A | |
| FP | SIP Regulation 6-310 | Y | | 0.15 gr/dscf | | N | | N/A | |
| Drift Rate | BAAQMD condition #17154, part 58 | Y | | 0.0005% | BAAQMD condition #17154, part 59 | Ρ | Initial source test | x | |
| Total Dissolve d Solids | BAAQMD condition #17154, part 58 | Y | | 5233 ppmw (mg/l) | BAAQMD condition #17154, part 58 | P/D | Sampling and testing of cooling tower water | x | |

Table VII – C Applicable Limits and Compliance Monitoring Requirements S-10, FIRE PUMP DIESEL ENGINE

| Type of | Citation | FE | Future Effective | | Monitoring Requirement | Monitoring Frequency | Monitoring | Com | pliance |
|---------------------------------|--|-----|---------------------|--|---|-------------------------|--|-----|---------|
| Limit | of Limit | Y/N | Date | Limit | Citation | (P/C/N) | Туре | Yes | No |
| Opacity | BAAQMD Regulatio n 6-303.1 | N | | Ringelmann 2.0 for 3 minutes in any hour | | N | | N/A | |
| Opacity | SIP Regulatio n 6-303.1 | Y | | Ringelmann 2.0 for 3 minutes in any hour | | N | | N/A | |
| FP | SIP Regulatio n 6-310 | Y | | 0.15 gr/dscf | | N | | N/A | |
| FP | BAAQMD Regulatio n 6-1-310 | N | | 0.15 gr/dscf | | N | | N/A | |
| SO2 | BAAQMD 9-1-301 | Y | | GLC of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours | | N | | N/A | |
| SO ₂ | BAAQMD 9-1-304 | Y | | Sulfur Content <0.5% by weight | | N | | N/A | |
| Reliability Related Hours | BAAQMD 9-8-330 | N | 1/1/12 | 100 hours until 1/1/12 50 hours after 1/1/12 | 9-8-502 9-8-530 | P/E | Totalizing meter record keeping | x | |
| Reliability Related Hours | BAAQMD Condition #22851, part 1 | N | | 34 hours per calendar year | BAAQMD Condition #22851, part 3, 4 | P/E | Totalizing meter record keeping | x | |

Table VII – DApplicable Limits and Compliance Monitoring RequirementsS-11, NATURAL GAS FIRED EMERGENCY GENERATOR

| Type of Limit | Citation of Limit | FE Y/N | Future Effecti ve Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type | Compliance | |
|---------------------------------|--|-----------|---------------------------------|---|--|------------------------------------|--|------------|----|
| | | | | | | | | Yes | No |
| Opacity | BAAQMD 6-1-303.1 | N | | < Ringelmann 2.0, except for no more than 3 minutes in any hour | | N | | N/A | |
| Opacity | SIP 6-303.1 | Y | | < Ringelmann 2.0, except for no more than 3 minutes in any hour | | N | | N/A | |
| FP | BAAQMD Regulatio n 6-1-310 | N | | 0.15 gr/dscf | | N | | N/A | |
| FP | SIP Regulatio n 6-310 | Y | | 0.15 gr/dscf | | N | | N/A | |
| SO ₂ | BAAQMD Regulatio n 9-1-301 | Y | | GLC of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours | | N | | N/A | |
| SO ₂ | BAAQMD Regulatio n 9-1-302 | Y | | 300 ppm (dry) | | N | | N/A | |
| Reliability Related Hours | BAAQMD 9-8-330 | N | 1/1/12 | 100 hours until 1/1/12 50 hours after 1/1/12 | 9-8-502 | P/E | Totalizing meter record keeping | x | |
| Reliability Related Hours | BAAQMD Condition #21609, part 1 | Y | | 100 hours per calendar year | BAAQMD Condition #22231, part 2 and 3 | P/E | Record keeping | x | |