

Applicable Emission Limits & Compliance Monitoring Requirements

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VII-A
S-1, S-2, S-3, S-4, Boilers

| Type of limit | Emission Limit Citation | FE Y/N | Compliance Status | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------|--------------------------------------|--------|-------------------|---|---------------------------------|------------------------------|-----------------------------|
| Oxides of Nitrogen | BAAQMD 9-7-301.1 | Y | In Compliance | 30 ppmv @3%O ₂ , dry | | N | |
| | BAAQMD 9-7-302.1 | Y | In Compliance | 40 ppmv @3% O ₂ , dry | | N | |
| | BAAQMD 9-7-303 | Y | In Compliance | Weighted average of 9-7-301.1 and 9-7-302.1 | BAAQMD 9-7-501 | C | Non-resactable (uel) meters |
| | BAAQMD 9-7-305.1 | Y | In Compliance | 150 ppmv @3% O ₂ , dry | | N | |
| | BAAQMD 9-7-306.1 | Y | In Compliance | 150 ppmv @3% O ₂ , dry | | N | |
| | BAAQMD Permit Condition 2878 part 1f | Y | In Compliance | 25 ppmv @3% O ₂ , dry, averaged over 3 hours | | N | |
| | PSD permit part IX, C, 2 | Y | In Compliance | 25 ppm @ 3% O ₂ , 3-hr rolling average | | N | |

Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-A (continued)
S-1, S-2, S-3, S-4, Boilers

| Type of limit | Emission Limit Citation | FE Y/N | Compliance Status | Emission Limit | Monitoring Requirement & Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------|---|--------|-------------------|---|-----------------------------------|------------------------------|-----------------|
| Carbon Monoxide | BAAQMD 9-7-301.2 | Y | In Compliance | 400 ppmv @3%O ₂ , dry | | N | |
| | BAAQMD 9-7-302.2 | Y | In Compliance | 400 ppmv @3%O ₂ , dry | | N | |
| | BAAQMD 9-7-303 | Y | In Compliance | 400 ppmv @3%O ₂ , dry | | N | |
| | BAAQMD 9-7-305.2 | Y | In Compliance | 400 ppmv @3%O ₂ , dry | | N | |
| | BAAQMD 9-7-306.2 | Y | In Compliance | 400 ppmv @3%O ₂ , dry | | N | |
| | BAAQMD Permit Condition 2878 part 1f | Y | In Compliance | 200 ppmv @3% O ₂ , dry, averaged over 3 hours | | N | |
| Hours of operation | BAAQMD Permit Condition Number 2878 part 1b | Y | In Compliance | Maximum of 1000 hrs/year @ 292 MM Btu/hr for all 4 boilers total when the Gas Turbine and Duct Burners are operable but the Gas Turbine is limited in power output due to a power curtailment order | None | P/E | Records |
| | BAAQMD Permit Condition Number 2878 part 1f | Y | In Compliance | 1 hr/yr for all 4 boilers total when operating as fuel delivery test units | None | P/E | Records |

Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-A (continued)
 S-1, S-2, S-3, S-4, Boilers

| Type of limit | Emission Limit Citation | FE Y/N | Compliance Status | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (F/C/N) | Monitoring Type |
|---------------------|---|--------|-------------------|--|---|------------------------------|--------------------------------|
| Hours of operation | BAAQMD Permit Condition Number 2878 part 1g | Y | In Compliance | Normal operability tests: up to 2 hrs/test, one boiler at a time, each boiler once per rolling 30 day period with natural gas, each boiler twice in rolling 12 months for No. 2 Fuel Oil | None | P/E | Records |
| | BAAQMD Permit Condition Number 2878 part 1h | Y | In Compliance | Operability tests after maintenance; one boiler at a time | None | P/E | Records |
| SO ₂ | BAAQMD 9-1-301 | N | In Compliance | GLEC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours | | N | |
| | BAAQMD 9-1-302 | Y | In Compliance | 300 ppm (dry) | | N | |
| Fuel Sulfur Content | BAAQMD 9-1-304 | Y | In Compliance | Sulfur content of fuel <0.5% by weight | BAAQMD Permit Condition Number 2878 part 1B | P/E | Fuel analysis or certification |

Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-A (continued)
 S-1, S-2, S-3, S-4, Boilers

| Type of Limit | Emission Limit Citation | FE Y/N | Compliance Status | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-------------------|---|---|------------------------------|-------------------------------------|
| Fuel usage | BAAQMD Permit Condition Number 2878 part 1b | Y | In Compliance | Up to 124.3 MM BTU/HR for all 4 boilers total when Duct Burners are not operating due to maintenance or repair | BAAQMD Permit Condition Number 2878 part 11 | C | Non-resettable fuel meters, records |
| | BAAQMD Permit Condition Number 2878 part 1c | Y | In Compliance | Up to 146 MM BTU/HR for all 4 boilers total when Duct Burners are not operating due to natural gas curtailment | BAAQMD Permit Condition Number 2878 part 11 | C | Non-resettable fuel meters, records |
| | BAAQMD Permit Condition Number 2878 part 1d | Y | In Compliance | Up to 292 mmbtu/hr for all 4 boilers total for up to 1000 hrs/year when the Gas Turbine and Duct Burners are operable but the Gas Turbine is limited in power output due to a power curtailment order | BAAQMD Permit Condition Number 2878 part 11 | C | Non-resettable fuel meters, records |
| | BAAQMD Permit Condition Number 2878 part 1e & 1f | Y | In Compliance | 1,980,000 lbs/yr per rolling 12 months for all 4 boilers total when operating as a peaking unit or fuel delivery test unit | BAAQMD Permit Condition Number 2878 part 11 | C | Non-resettable fuel meters, records |

Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-A (continued)
 S-1, S-2, S-3, S-4, Boilers

| Type of limit | Emission Limit Citation | EL Y/N | Compliance Status | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|---|--------|-------------------|---|---|------------------------------|-------------------------------------|
| Fuel usage | BAAQMD Permit Condition Number 2878 part 1g | Y | In Compliance | Operability tests: up to 30 nmbr/hr for 2 hrs | BAAQMD Permit Condition Number 2878 part 1f | C | Non-resettable fuel meters, records |
| | BAAQMD Permit Condition Number 2878 part fh | Y | In Compliance | Operability tests: after maintenance, 1 boiler at a time | BAAQMD Permit Condition Number 2878 part 1f | C | Non-resettable fuel meters, records |
| | BAAQMD Permit Condition Number 2878 part 7 | Y | In Compliance | 520 MM of combined fuel usage for duct burners and boilers (when operating per condition #2878, part 1b) per year | BAAQMD Permit Condition Number 2878 part 1f | C | Non-resettable fuel meters, records |
| | PSD permit part IX, F, 2 | Y | In Compliance | 1,980,000 therms per rolling 12 months for all 4 boilers total | PSD permit part IX, G, 5 | C | Non-resettable fuel meters, records |
| Opacity | BAAQMD 6-301 | N | In Compliance | > Ringelmann No. 1 for no more than 3 minutes in any one hour | | N | |
| FP | BAAQMD 6-310.3 | Y | In Compliance | 0.15 grain/dscf @ 6% O ₂ | | N | |

¹ Ground Level Concentration

Applicable Emission Limits & Compliance Monitoring Requirements

**Table VII-B
 S-6, Turbine**

| Type of limit | Emission Limit Citation | FE Y/N | Compliance Status | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------|--------------------------------------|--------|-------------------|---|--|------------------------------|-----------------|
| NO _x | BAAQMD 9-9-301.2 | Y | In Compliance | Natural Gas NO _x Emissions Rate ≤ 0.43 lb/MWhr @ 15% O ₂ dry, averaged over any consecutive 3 hours | BAAQMD 9-9-501; BAAQMD Permit Condition 2878 part 4h | C | CEM |
| | BAAQMD Permit Condition 2878 part 3a | Y | In Compliance | ≤ 42 ppmv @ 15% O ₂ dry, averaged over 3 hours in combined Gas Turbine/Duct Burner exhaust | BAAQMD Permit Condition 2878 part 4 | C | CEM |
| | BAAQMD Permit Condition 2878 part 3h | N | In Compliance | ≤ 14.6 ppmv @ 15% O ₂ dry, averaged over 3 hours in Gas Turbine exhaust | BAAQMD Permit Condition 2878 part 4h | C | CEM |
| | BAAQMD Permit Condition 2878 part 3b | N | In Compliance | ≤ 16.9 ppmv @ 15% O ₂ dry, averaged over 24 hours in Gas Turbine exhaust @ less than 80% base load | BAAQMD Permit Condition 2878 part 4b | C | CEM |

Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-B (continued)
 S-6, Turbine

| Type of limit | Emission Limit Citation | FE Y/N | Compliance Status | Emission Limit | Monitoring & Requirement of Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------|---|--------|-------------------|---|---|------------------------------|-----------------|
| | NSPS Subpart GG 60.332(a) (1) | Y | In Compliance | ≤108 ppmv @ 15% O ₂ dry | NSPS Subpart GG, 60.334© | C | CEM |
| NO _x | PSD permit part IX, C | Y | In Compliance | 42 ppm @ 15% O ₂ combined limits (turbine/duct burner) averaged over 24 hours when burning natural gas | PSD permit part IX, E | C | CEM |
| Carbon Monoxide | BAAQMD Permit Condition Number 2878 part 5 | Y | In Compliance | < 150 tons per year from turbine and duct burner combined | BAAQMD Permit Condition Number 2878 part 14 | C | CEM |
| Hours of operation | BAAQMD Permit Condition Number 2878, part 2 | Y | In Compliance | < 1000 hrs/rolling 12 months of operation @ < 80% baseload | BAAQMD Condition #2878, Part 16 | P/E | records |
| SO ₂ | BAAQMD 9-1-301 | N | In Compliance | GLC1 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 | In Compliance | 300 ppm (dry) | | N | |
| Fuel Sulfur Content | NSPS 40 CFR 60.33(b) | Y | In Compliance | Fuel Sulfur content of 0.8 percent by weight | 40 CFR 60.33(b)(1) | N | |

Facility Name: Cardinal Cogen
 Permit for Facility #A1629
 Expiration Date: August 23, 2010
 (Permit Renewal Submitted 2/19/2010)
 ID: BFC
 Six Month Report
 For Period January 1, 2012 to June 30, 2012

Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-B (continued)
S-6, Turbine

| Type of Limit | Emission Limit Citation | FE Y/N | Compliance Status | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--------------------------|--------|-------------------|---|---------------------------------|------------------------------|---------------------|
| Opacity | BAAQMD 6-301 | Y | In Compliance | > Ringelmann No. 1 for no more than 3 minutes in any one hour | | N | |
| FP | BAAQMD 6-310 | Y | In Compliance | 0.15 gpm/dscf | | N | |
| Fuel usage | PSD permit part IX, G, 2 | Y | In Compliance | 3,850 million of natural gas in any calendar year | PSD permit part IX, G, 4 | C | Fuel meter, records |

Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-C
 S-8, Duct Burner

| Type of limit | Emission Limit Citation | FE Y/N | Compliance Status | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (F/C/N) | Monitoring Type |
|-----------------|---|--------|-------------------|---|---|------------------------------|---------------------|
| NO _x | 40 CFR 60.44b(a) | Y | In Compliance | 0.2 lb NO _x /MMBtu burned | (Exempt from monitoring per 40 CFR 60.48b(h)) | N | |
| | BAAQMD Permit Condition Number 2878 part 3a | Y | In Compliance | ≤ 41 ppmv @ 15% O ₂ dry, averaged over 3 hours in combined Gas Turbine/Duct Burner exhaust | BAAQMD Permit Condition 2878 part 4 | C | CEM |
| | PSD permit part IX, C.1 | Y | In Compliance | 42 ppmv @ 15% O ₂ averaged over 24 hours when burning natural gas | PSD permit part IX, E | C | CEM |
| Carbon Monoxide | BAAQMD Permit Condition Number 2878 part 5 | Y | In Compliance | < Or equal to 150 tons per year from turbine and duct burner combined | BAAQMD Permit Condition Number 2878 part 13 | C | CEM |
| Fuel usage | BAAQMD Permit Condition Number 2878 part 7 | Y | In Compliance | 520 MM of combined fuel usage for duct burners and boilers (when operating per condition #2878, part 1b) per year | PSD permit part IX, G, 4 | C | Fuel meter, records |
| | PSD permit part IX, G, 3 | Y | In Compliance | 520 MM of natural gas in any calendar year | PSD permit part IX, G, 4 | C | Fuel meter, records |
| Opacity | BAAQMD 6-301 | Y | In Compliance | > Ringelmann No. 1 for no more than 3 min in any hour | | N | |

Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-C (continued)
 S-8, Duct Burner

| Type of limit | Emission Limit Citation | VE Y/N | Compliance Status | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) ¹ | Monitoring Type |
|-----------------|-------------------------|--------|-------------------|---|---------------------------------|---|-----------------|
| PP | BAAQMD 6-310.3 | Y | In Compliance | 0.15 grains/dscf | | N | |
| SO ₂ | BAAQMD 9-1-301 | N | In Compliance | GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours | | N | |
| | BAAQMD 9-1-302 | Y | In Compliance | 300 ppm (dry) | | N | |

¹ Ground Level Concentration

Facility Name: Cardinal Cogen
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 ID: BFC
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 For Period January 1, 2012 to June 30, 2012

Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-D
S-9, Turbine Starting Engine

| Type of Limit | Emission Limit Citation | FE Y/N | Compliance Status | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N/M) | Monitoring Type |
|---------------------|--------------------------------|--------|-------------------|--|---------------------------------|--------------------------------|--------------------|
| Opacity | BAAQMD 6-303.1 | Y | In Compliance | > (Ringelmann No. 2 for no more than 3 minutes in any hour. | | N | |
| FP | BAAQMD 6-310 | Y | In Compliance | 0.15 grain/dscf | | N | |
| | BAAQMD 6-310.3 | Y | In Compliance | 0.15 grain/dscf @ 6% O ₂ | | N | |
| SO ₂ | BAAQMD 9-1-301 | Y | In Compliance | Gr C ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours | | N | |
| Fuel Sulfur Content | BAAQMD 9-1-304 | Y | In Compliance | Fuel sulfur content limit of 0.5% by weight | BAAQMD condition #21844 part 5 | P | Fuel Certification |
| Hours of Operation | BAAQMD condition #21844 part 2 | | In Compliance | 200 hours per year | BAAQMD condition #21844 part 3 | C | Totalizing Counter |

Applicable Emission Limits & Compliance Monitoring Requirements

Table VII-E
S-10 and S-11 Standby Generator Diesel Engines

| Type of Limit | Emission Limit Citation | FE Y/N | Compliance Status | Emission Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N/M) | Monitoring Type |
|---------------------|--------------------------------|--------|-------------------|---|---------------------------------|--------------------------------|--------------------|
| Opacity | BAAQMD 6-303.1 | Y | In Compliance | > Ringelmann No. 2 for no more than 3 minutes in any hour | | N | |
| FP | BAAQMD 6-310 | Y | In Compliance | 0.15 grain/dscf | | N | |
| | BAAQMD 6-310.3 | Y | In Compliance | 0.15 grain/dscf @ 6% O ₂ | | N | |
| SO ₂ | BAAQMD 9-1-301 | Y | In Compliance | GLC ¹ of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours | | N | |
| Fuel Sulfur Content | BAAQMD 9-1-304 | Y | In Compliance | Fuel sulfur content limit of 0.5% by weight | BAAQMD condition #19698 part 5 | P | Fuel Certification |
| Hours of Operation | BAAQMD condition #19698 part 2 | | In Compliance | 100 hours per year discretionary operation | BAAQMD condition #19698 part 6 | C | Totalizing Counter |