DOCKETED	
Docket Stamp Updated:	6/14/2021 1:29:29 PM
Docket Number:	99-AFC-04C
Project Title:	Duke Energy North American's Moss Landing Power Plant Modernization Project (Compliance)
TN #:	238058
Document Title:	Statement of Staff Approval Of Proposed Change Moss Landing Power Plant (99-AFC-04C)
Description:	Modification to Air Quality Conditions for non-operational boilers
Filer:	Susan Fleming
Organization:	Energy Commission
Submitter Role:	Commission Staff
Submission Date:	6/1/2021 9:10:12 AM
Docketed Date:	6/1/2021

DOCKETED	
Docket Number:	99-AFC-04C
Project Title:	Duke Energy North American's Moss Landing Power Plant Modernization Project (Compliance)
TN #:	238058
Document Title:	Statement of Staff Approval Of Proposed Change Moss Landing Power Plant (99-AFC-04C)
Description:	Name Change from Dynegy Moss Landing, LLC to Moss Landing Power Company. LLC
Filer:	Susan Fleming
Organization:	Energy Commission
Submitter Role:	Commission Staff
Submission Date:	6/1/2021 8:49:03 AM
Docketed Date:	6/1/2021

CALIFORNIA ENERGY COMMISSION
1516 Ninth Street
Sacramento, California 95814

Main website: www.energy.ca.gov
CEC-57 (Revised 1/19)

STATEMENT OF STAFF APPROVAL OF PROPOSED CHANGE

MOSS LANDING POWER PLANT
(99-AFC-04C)

On August 17, 2017, Dynegy Moss Landing, LLC (DML), filed a post certification petition for a project change for the Moss Landing Power Plant (MLPP). The 1,060-megawatt natural gas-fired, combined cycle facility with two units is located east of the community of Moss Landing near the Moss Landing Harbor, in Monterey County, on a site that contained two active powerplant units licensed prior to the formation of the CEC. The project was certified by the California Energy Commission CEC (CEC) in October 25, 2000 and began commercial operation in July 2002.

On December 14, 2020, the project owner docketed a letter informing the CEC that the owner had effectuated an administrative name change (TN #2359320) from Dynegy Moss Landing, LLC to Moss Landing Power Company, LLC.

DESCRIPTION OF PROPOSED CHANGE

The petitioner is proposing to remove requirements and references to two boilers that are no longer in operation, update quarterly emission limits, clarify definitions, remove Carbon Monoxide (CO) substitution data requirements from the conditions, incorporate a Continuous Emission Monitoring System (CEMS) monitoring protocol with updated CO data requirements, and clarify breakdown reporting requirements. The purpose of the proposed change is to modify the MLPP Air Quality Conditions of Certification related to the shutdown of the two boilers and update the conditions of certification for consistency with Monterey Bay Air Resources District (MBARD) permits.

The petition is available on the CEC's Moss Landing Power Plant webpage at https://ww2.energy.ca.gov/sitingcases/mosslanding/.

CEC STAFF REVIEW AND CONCLUSIONS

Title 20, California Code of Regulations, section 1769 states that a project owner shall petition the CEC for approval of any change it proposes to the project design, operation, or performance requirements.

CEC technical staff reviewed the petition for potential environmental effects and consistency with applicable laws, ordinances, regulations, and standards (LORS). Except for Air Quality, no revisions or new conditions of certification are needed to ensure the

project remains in compliance with all applicable LORS and existing conditions of certification.

- For the technical area of Air Quality, staff has determined that with the proposed changes to the conditions of certification, the project would continue to comply with applicable LORS, there would be no significant air quality impacts related to MLPP, and no population, including any environmental justice population, would be significantly impacted. The proposed changes would conform with past changes made by the MBARD to its permit language. No daily, quarterly, annual or other emission limits would increase because of these changes. See Attachment A for the Air Quality analysis and revised conditions.

Environmental justice

Environmental Justice – Figure 1 shows 2010 census blocks in the six-mile radius of the Moss Landing Power Plant with a minority population greater than or equal to 50 percent. The population in these census blocks represents an environmental justice (EJ) population based on race and ethnicity as defined in the United States Environmental Protection Agency's *Guidance on Considering Environmental Justice During the Development of Regulatory Actions*. Staff conservatively obtains demographic data within a six-mile radius around a project site based on the parameters for dispersion modeling used in staff's air quality analysis. Air quality impacts are generally the type of project impacts that extend the furthest from a project site. Beyond a six-mile radius, air emissions have either settled out of the air column or mixed with surrounding air to the extent the potential impacts are less than significant. The area of potential impacts would not extend this far from the project site for most other technical areas included in staff's EJ analysis.

Based on California Department of Education data in the **Environmental Justice – Table 1**, staff concluded that the percentage of those living in the Pajaro Valley Unified and North Monterey County Unified school districts (in a six-mile radius of the project site) and enrolled in the free or reduced price meal program is larger than those in the reference geography, and thus are considered an EJ population based on low income as defined in *Guidance on Considering Environmental Justice During the Development of Regulatory Actions*. **Environmental Justice – Figure 2** shows where the boundaries of the school district are in relation to the six-mile radius around the Moss Landing Power Plant.

Environmental Justice – Table 1
Low Income Data within the Project Area

MONTEREY COUNTY SCHOOL DISTRICT IN SIX-MILE RADIUS	Enrollment Used for Meals	Free or Reduced-Price Meals	
North Monterey County Unified	4,594	3,790	82.5%
REFERENCE GEOGRAPHY			
Monterey County	77,407	56,299	72.7%
SANTA CRUZ COUNTY SCHOOL DISTRICTS IN SIX-MILE RADIUS	Enrollment Used for Meals	Free or Reduced-Price Meals	
Pajaro Valley Unified	19,772	15,395	77.9%
REFERENCE GEOGRAPHY			
Santa Cruz County	40,554	21,540	53.1%

Source: CDE 2020. California Department of Education, DataQuest, Free or Reduced-Price Meals, District level data for the year 2019-2020, <http://dq.cde.ca.gov/dataquest/>.

The following technical areas (if affected) consider impacts to EJ populations: Air Quality, Cultural Resources (indigenous people), Hazardous Materials Management, Land Use, Noise and Vibration, Public Health, Socioeconomics, Soil and Water resources, Traffic and Transportation, Transmission Line Safety and Nuisance, Visual Resources, Waste Management, and Worker Safety and Fire Protection.

Environmental Justice Conclusions

For the one technical area affected by the proposed project changes – Air Quality – staff concludes that impacts would be less than significant, and thus would be less than significant on the EJ population represented in **Environmental Justice – Figure 1**, **Figure 2**, and **Table 1**. In the Air Quality analysis, staff proposes new conditions of certification and changes to existing conditions of certification to mitigate potentially significant impacts on the environment. Staff has determined that by adopting the proposed new conditions of certification and changes to the existing conditions of certification, the proposed project changes would not cause significant impacts for any population in the project's six-mile radius, including the EJ population. Impacts to the EJ population are less than significant.

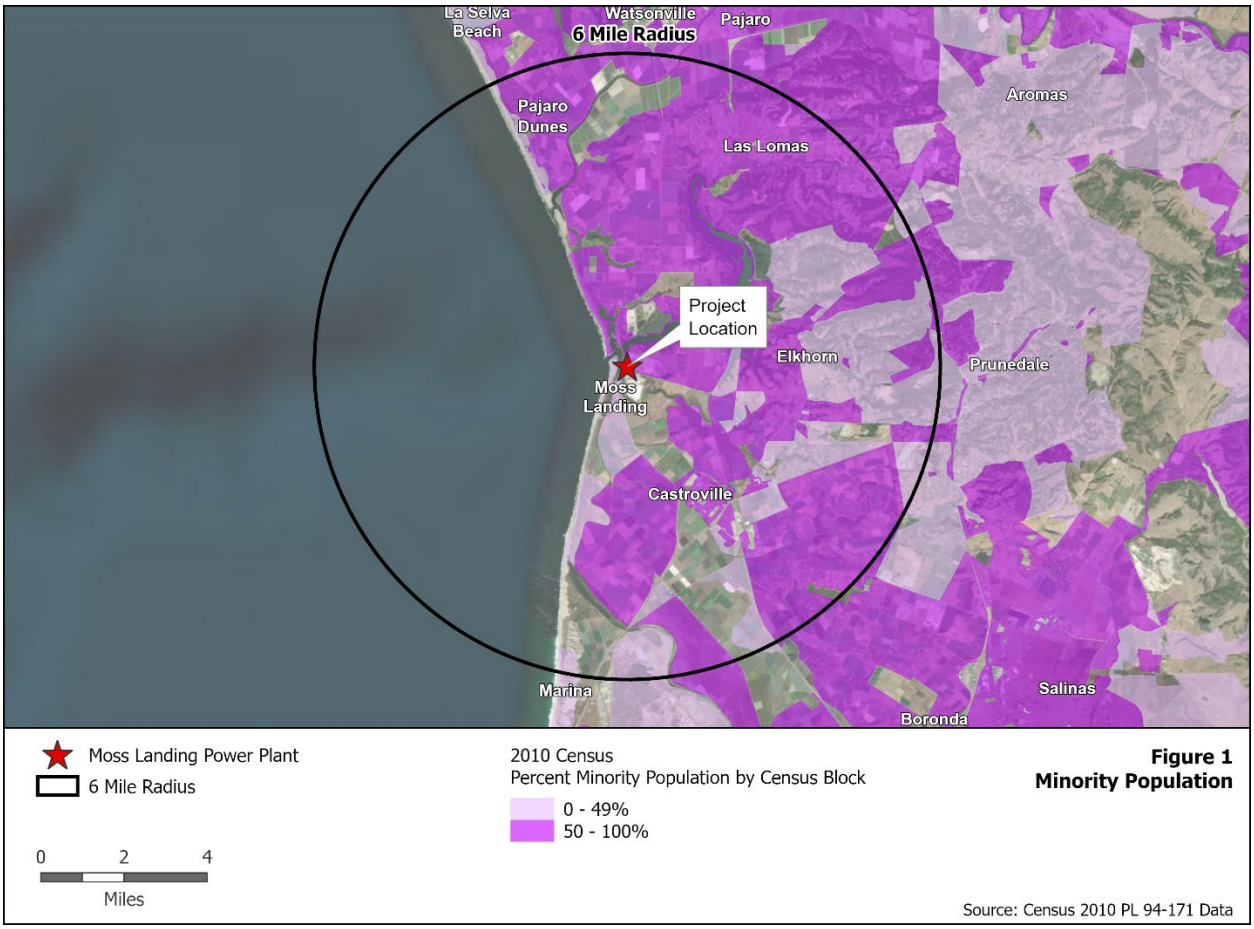
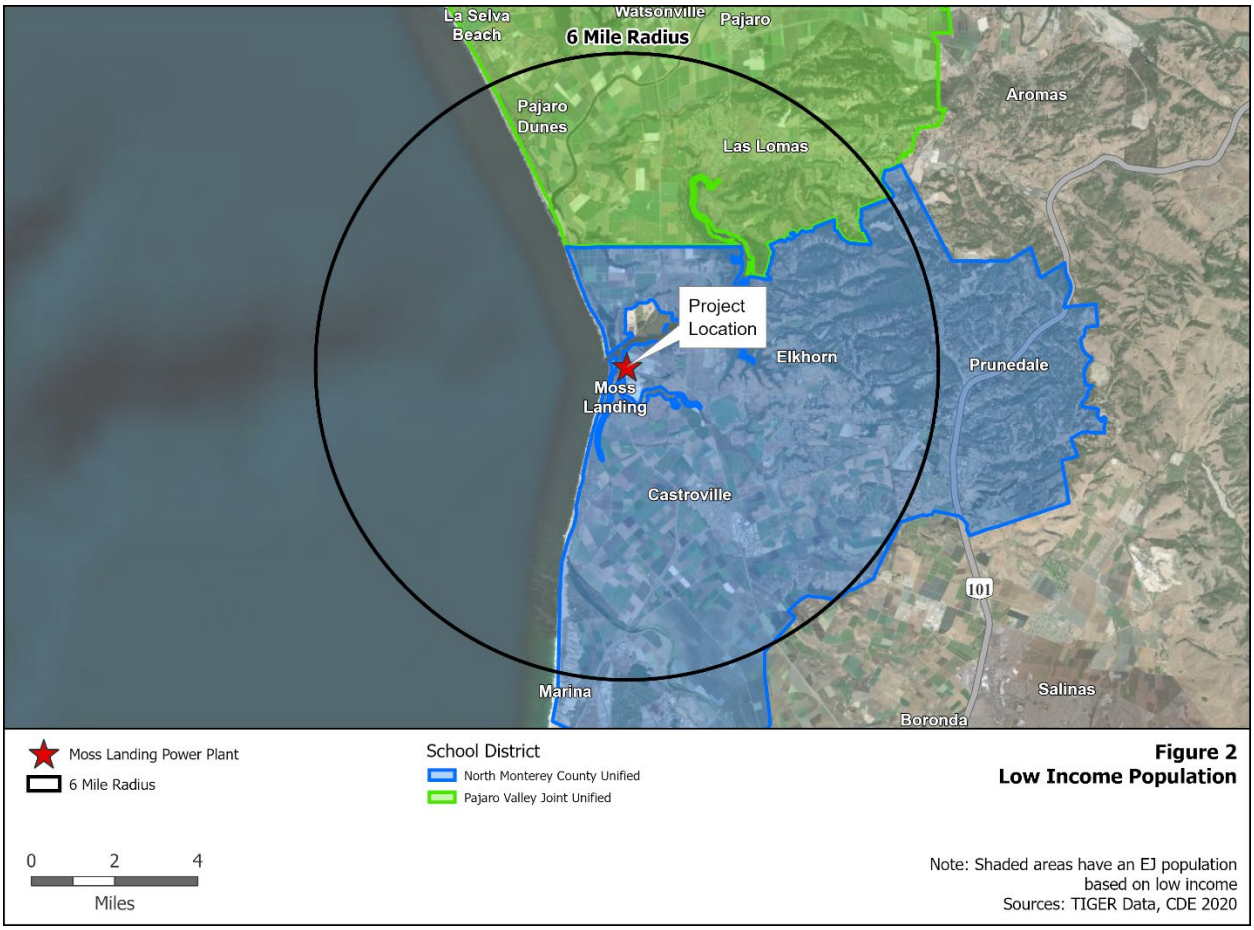


Figure 1Minority Population



CEC STAFF DETERMINATION

Pursuant to Title 20, California Code of Regulations, sections 1769(a)(3)(A) and (B), staff has determined for this petition that approval by the full Commission is not required and the proposed changes meet the criteria for staff approval because:

i. there is no possibility that the change may have a significant impact on the environment, or the project is exempt from the California Environmental Quality Act;

ii. the change would not cause the project to fail to comply with any applicable laws, ordinances, regulations, or standards; and

ii. no daily, quarterly, annual or other emission limit will be increased as a result of the change.

Staff also concludes that the proposed changes do not meet the criteria requiring production of subsequent or supplemental review as specified in Title 14, California Code of Regulations, section 15162(a).

WRITTEN COMMENTS

This Statement of staff Approval of the proposed project changes has been filed in the docket for this project. Pursuant to section 1769(a)(3)(C), any person may file an objection to staff's determination within 14 days of the filing of this statement on the grounds that the project change does not meet the criteria set forth in sections 1769(a)(3)(A) and (B). Absent any objections as specified in 1769(a)(3)(C), this petition will be approved 14 days after this statement is filed.

Written comments or objections to staff's determination may be submitted using the CEC's e-Commenting feature, as follows: Go to the CEC's project webpage and click on either the "Comment on this Proceeding," or "Submit e-Comment" link. When your comments are filed, you will receive an email with a link to them.

Written comments or objections may also be mailed to:

California CEC
Docket Unit, MS-4
Docket No. 99-AFC-04C
1516 Ninth Street
Sacramento, CA 95814-5512

All comments and materials filed with the Docket Unit will be added to the facility Docket Log and be publicly accessible on the CEC's project webpage.

If you have questions about this notice, please contact Mary Dyas, Project Manager, Compliance Monitoring and Enforcement Office, at (916) 654-4842, or via email at mary.dyas@energy.ca.gov.

For information on public participation, please contact the Public Advisor, at (916) 654-4489 or (800) 822-6228 (toll-free in California) or send your email to publicadvisor@energy.ca.gov.

News media inquiries should be directed to the CEC Media Office at (916) 654-4989, or by email at mediaoffice@energy.ca.gov.

List Serve: MossLanding

MOSS LANDING POWER PLANT (99-AFC-4C)
Request to Amend Final Commission Decision
Air Quality Analysis
Nancy Fletcher and Joseph Hughes

INTRODUCTION AND SUMMARY

On September 18, 2017, Dynegy Moss Landing (petitioner or DML) filed a petition (MLPP 2017, TN 221193) with the California Energy Commission (CEC) requesting an amendment to the Air Quality Conditions of Certification for the Moss Landing Power Plant Project (MLPP). The petitioner is proposing to remove requirements and references to two boilers that are no longer in operation, update quarterly emission limits, clarify definitions, remove CO substitution data requirements from the conditions, incorporate a CEMS monitoring protocol with updated CO data requirements, and clarify breakdown reporting requirements.

MLPP is an existing 1,060 megawatt (MW) natural gas-fired combined-cycle facility consisting of two 530 MW units, combined-cycle Units 1 and 2. Each unit consists of two natural gas fired General Electric Frame 7 combustion turbine generators (CTGs), two unfired heat recovery steam generators (HRSGs) and a reheat, condensing steam turbine generator (STG). Combined-cycle Units 1 and 2 both use seawater for once-through cooling.

The CEC licensed the MLPP on October 25, 2000 (Decision) and commercial operation began in July of 2002. The MLPP was licensed at the Moss Landing Power Plant site with seven existing electric generation units, Units 1 through 7. The licensed MLPP replaced generating Units 1 through 5, totaling 613 MW, built in the 1950s and operated through 1995. Boiler Units 6 and 7, each with nominal capacities of 765 MW, remained in operation until they were permanently retired on December 31, 2016.

Since the Decision, the CEC has amended the MLPP Air Quality Conditions of Certification. On April 16, 2003, the CEC approved modifications to the emission limits that apply during shutdown operations (CEC 2003). The modification exempted shutdown activities from normal operating emission limitations and added separate mass-based emission limits and operating restrictions for shutdown activities. In September 2003, Duke Energy Moss Landing LLC filed a petition to amend emission limits for cold start and combustor tuning activities (MLPP 2003, TN 29824). On January 29, 2004, CEC approved the addition of mass-based emission limits for limits for oxides of nitrogen (NOx), carbon monoxide (CO), and volatile organic compounds (VOC) during steam turbine cold startup and combustor tuning conditions (CEC 2004, TN 30796). In addition, CEC included operational limits for cold start and combustor tuning events, and minor updates to the ammonia slip testing frequency.

DML previously submitted applications to the Monterey Bay Unified Air Pollution Control District doing business as the Monterey Bay Air Resources District (MBUAPCD, MBARD,

or District) to incorporate the proposed changes to the MBARD-issued operating permits. DML-requested changes have been incorporated in the MBARD-issued MLPP federal operating permit (Title V permit) and individual Permits to Operate (PTOs). The MBARD incorporated the requests over multiple permitting actions.

CEC staff made additional refinements to the Air Quality Conditions of Certification. Staff has incorporated provisions of the MBARD-issued Title V operating permit previously approved by the MBARD. In addition, staff made clarifications to the language and requirements to ensure MLPP operates in compliance with applicable Laws, Ordinances, Regulations, and Standards (LORS).

CEC staff modified the conditions of certification to ensure compliance with current requirements and ensure potential air quality impacts from the proposed changes are less than significant. With the changes to the conditions of certification, the project would comply with applicable LORS, there would be no significant air quality impacts related to MLPP, and no population, including any environmental justice population, would be significantly impacted.

LAWS, ORDINANCES, REGULATIONS, AND STANDARDS COMPLIANCE

There have been changes to air quality LORS applicable to the project since the Final Commission Decision. **Air Quality Table 1** includes a summary of the air quality LORS applicable to the changes in this amendment. This table is not intended to be comprehensive of all MLPP facility LORS. In addition, the MBARD reviewed the requested modifications, determined the changes would comply with their current rules and regulations, and incorporated the DML-proposed changes in previous renewals of the MLPP Title V permit. The conditions of certification in the Final Commission Decision and amendments thereafter ensure that the facility would remain in compliance with all LORS.

Air Quality Table 1
Laws, Ordinances, Regulations, and Standards

APPLICABLE LAW	DESCRIPTION	COMPLIANCE
Federal	**U.S. Environmental Protection Agency (EPA)**	
Title 40, Code of Federal Regulations, part 50 (National Primary and Secondary Ambient Air Quality Standards)	Part 50 establishes the National Ambient Air Quality Standards (NAAQS). NAAQS define levels of air quality that are necessary to protect public health.	With the changes to the conditions of certification, there are no emission increases or other changes that would impact compliance with the standards. Continued compliance is expected.
Title 40, Code of Federal Regulations, part 51 (Requirements for Preparation Adoption and Submittal of Implementation Plans)	Requires emission reporting and control strategies for the attainment and maintenance of national standards.	MBARD rules and procedures address these requirements. Continued compliance is expected.
Title 40, Code of Federal Regulations, part 52 (Approval and Promulgation of Implementation Plans)	Establishes requirements for attainment emissions. Prevention of Significant Deterioration (PSD) requires review and facility permitting for construction of new or modified major stationary sources of pollutants at locations where ambient concentrations attain the NAAQS.	MBARD has delegation of PSD authority from the United States Environmental Protection Agency (U.S. EPA). This amendment does not trigger a PSD review.
Title 40, Code of Federal Regulations, part 60, subpart A (General Provisions)	Outlines general requirements for facilities subject to standards of performance including, notification, work practice, monitoring and testing requirements.	The modifications to the conditions of certification are not expected to impact compliance with any requirement. Continued compliance is expected.
Title 40, Code of Federal Regulations, part 60, subpart GG (Standards of Performance for Stationary Combustion Turbines)	Requires the turbines to meet emission standards. The applicable limits are 141 parts per million for NOx and 150 parts per million for sulfur oxide (SOx).	These limits exceed the BACT requirements established through new source review (NSR). The BACT requirements of 2.5 ppmv and 0.5 ppmv for NOx and sulfur dioxide (SO_2) subsume the emission standard in Subpart GG. Compliance with all provisions including recordkeeping requirements is expected.

APPLICABLE LAW	DESCRIPTION	COMPLIANCE
Title 40, Code of Federal Regulations, part 60, subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines)	Outlines requirements for stationary diesel engines.	There are three operating emergency diesel fire pumps at the MLPP. Based on the installation date, these engines are exempt from the subpart requirements.
Title 40, Code of Federal Regulations, part 60, subpart TTTT (Standards of Performance for Greenhouse Gas Emissions For Electric Generating Units)	Establishes emission standards for units installed after January 8, 2014.	The modification would not result in the units becoming subject to this Subpart.
Title 40, Code of Federal Regulations, part 61, subpart A (General Provisions)	Establishes National Emission Standards for Hazardous Air Pollutants (NESHAPS) provisions for specified pollutants.	MLPP has historically complied with the requirements and continued compliance is expected.
Title 40, Code of Federal Regulations, part 61, subpart M (National Emission Standard for Asbestos)	Establishes requirements for demolition and renovation activities.	MLPP has historically been in compliance with these requirements and the Title V permit contains a condition to ensure ongoing compliance. Staff added this condition to the air quality conditions of certification.
Title 40, Code of Federal Regulations, part 63, subpart YYYY (National Emission Standards for Hazardous Air Pollutants for Stationary Gas Turbines)	This subpart establishes requirements for facilities that are major sources of hazardous air pollutants (HAPS).	MLPP is not classified as a major source of HAPS since HAP emissions are less than 25 tons/year in combination and 10 tons/year for any single HAP.
Title 40, Code of Federal Regulations, part 63, subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines)	Establishes standards for both major and area sources of HAP emissions. Establishes emission and operating limitations for applicable internal combustion engines.	The emergency fire pump engines are subject to these requirements. Conditions are included in the Title V permit to ensure compliance. These requirements were added to the air quality conditions of certification.

APPLICABLE LAW	DESCRIPTION	COMPLIANCE
Title 40, Code of Federal Regulations, part 64 (Compliance Assurance Monitoring)	Major stationary sources that use control equipment to achieve emission limits are subject to this regulation.	The turbines are major sources for NOx, CO, and VOC emissions. NOx meets applicable best available control technology (BACT) limits by using external control equipment consisting of selective catalytic reduction (SCR). Compliance with the NOx BACT limit is demonstrated through a continuous emission monitoring system (CEMS). Continued compliance with this rule is expected. VOCs and CO are not subject since VOC and CO emissions are controlled by efficient combustor design and the use of natural gas instead of external controls.
Title 40, Code of Federal Regulations, part 68 (Risk Management Planning: Accidental Release Prevention, Section 112r)	Requires the establishment of a Risk Management Plan.	MLPP submitted an RMP to EPA. MLPP is required to submit revisions and updates as required per the MLPP Title V operating permit. Requirements will be added to the air quality conditions of certification. Continued compliance is expected.
Title 40, Code of Federal Regulations, part 70 (State Operating Permit Program)	Part 70 establishes the Title V permitting program.	MLPP currently operates under a Title V permit. The MBARD is delegated to evaluate and issue Title V permits. An updated Title V permit was issued as part of MBARD requirements. Continued compliance is expected.

APPLICABLE LAW	DESCRIPTION	COMPLIANCE
Title 40, Code of Federal Regulations, parts 72-79 (Acid Rain Program)	Part 72 establishes the Acid Rain Permit Program and Part 75 establishes emissions monitoring requirements. The acid rain program requirements establish controls for SO_2 and NOx emissions from fossil fuel-fired combustion used to generate electricity. Facilities are required to cover SO_2 emissions with allowances or offsets.	MLPP is subject to the acid rain program. Continued compliance with the SO_2 allowances and emissions monitoring requirements is expected. MLPP uses 40 CFR Part 75 Appendix D to measure and report SO_2 emissions.
Title 40, Code of Federal Regulations, part 82 (Protection of Stratospheric Ozone)	Part 82 implements the Montreal Protocol on Substance that Deplete the Ozone layer and sections of the Clean Air Act Amendments of 1990.	This is a general requirement that imposes limits on the production and consumption of certain ozone depleting substances. Continued compliance is expected.
State	**California Air Resources Board and CEC**	
Health & Safety Code, sections 40910-40930 (District Plans to Attain State Ambient Air Quality Standards)	State Ambient Air Quality Standards should be achieved and maintained. The permitting of the source needs to be consistent with the approved clean air plan.	The permitting of the MLPP needs to be consistent with the approved clean air plan. The MBARD NSR program is required to be consistent with regional air quality management plans. The changes would not impact compliance with the standards.
Health & Safety Code, sections 41700-41701 (General Limitations)	Establishes nuisance and visible emission requirements. Prohibits discharge of such quantities of air contaminants that cause injury, detriment, nuisance, or annoyance. Prohibits visible emissions darker than Ringelmann 2 or 40 percent opacity.	The proposed changes are not expected to cause a nuisance. Compliance is expected.
Health & Safety Code, section 42301.6 (Permits)	Establishes noticing requirements for projects within 1,000 feet of a school site.	The MLPP is not located within 1,000 feet of a school site and therefore the public noticing requirements do not apply.

APPLICABLE LAW	DESCRIPTION	COMPLIANCE
Title 17, California, Code of Regulations, 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines— Limits types of fuels allowed, establishes maximum emission rates and establishes recordkeeping requirements for stationary compression ignition engines.	There are three operating emergency diesel fire pumps at the MLPP. Continued compliance is expected.
California Code of Regulations, Public Utilities Code §8340 (SB1368)	Greenhouse Gases Emission Performance Standard (EPS), Article 1 –Provisions Applicable to Power Plants 10 MW and Larger.	The regulation considers power plants licensed prior to June 30, 2007 as deemed-compliant power plants. Therefore, MLPP is considered compliant with the regulation.
Local	**Monterey Bay Air Resources District**	
Regulation II -Permits Rule 200 (Permits Required)	Requires any person constructing, altering, replacing, or operating any source operation which emits, may emit, or may reduce emissions to obtain an Authority to Construct (ATC) and a PTO, unless exempted by Rule 201.	The proposed changes in the petition are considered modifications to the district permits. MLPP has historically complied with the requirements.
Regulation II -Permits Rule 201 (Sources Not Requiring Permits)	Identifies equipment exempt from district permitting requirements.	The proposed changes in the petition are considered modifications to the district permits. MLPP has historically complied with the requirements.
Regulation II -Permits Rule 203 (Application)	Requires applications for ATCs and PTOs be filed with the MBARD. Separate applications are required for each permit unit to be filed with the MBARD.	Applications were submitted to the MBARD for the proposed changes.
Regulation II -Permits Rule 205 (Provisions of Sampling Testing Facilities)	Establishes provisions for sampling and testing facilities.	The conditions of certification include conditions establishing sampling facilities as required by this rule.

APPLICABLE LAW	DESCRIPTION	COMPLIANCE
Regulation II -Permits Rule 206 (Standards for Granting Applications)	Establishes criteria for issuing and amending district permits. Requires modified sources be operated consistent with district permit requirements, any offset requirement will be effective at the time or prior to initial operation, and all offsets be maintained throughout operation.	DML stated the MLPP is in compliance with all emission and operational conditions in the existing permit and will comply with all requirements. No offsets will be required for the proposed changes.
Regulation II -Permits Rule 207 (Review of New or Modified Sources)	Provides for the review of new and modified stationary air pollution sources to meet the requirements under the provisions of the federal and California Clean Air Acts. Included in these requirements are the requirements for new source review (NSR) and Prevention of Significant Deterioration (PSD).	The rule applies to all new stationary sources and modifications that have the potential to emit any affected pollutants after the construction or modification. A NSR review was completed by the MBARD prior to issuing amended operating permits for the MLPP.
Regulation II -Permits Rule 213 (Continuous Emissions Monitoring)	Establishes requirements and standard for continuous emission monitoring systems.	This rule is applicable to MLPP. Permit conditions are included to ensure the CEMS continues to operate in accordance with the requirements.
Regulation II -Permits Rule 214 (Breakdown Condition)	Specifies conditions and procedures for breakdowns.	The MBARD has established criteria for reporting breakdowns. The requirements are included in the MBARD-issued permits and CEC license.
Regulation II -Permits Rule 218 (Title V: Federal Operating Permits)	Provides for the issuance of Federal Operating Permits which contain all federally enforceable requirements for stationary sources.	MLPP is a major source and is subject to Title V provisions. The MLPP Title V permit has been amended by the MBARD to include the proposed changes.
Regulation II -Permits Rule 219 (Title IV: Acid Deposition Control)	Provides for the issuance of Acid Rain Permits under the provisions of Title IV of the Federal Clean Air Act.	The MLPP is subject to acid rain requirements. These requirements are included in the Title V permit and CEC license.

APPLICABLE LAW	DESCRIPTION	COMPLIANCE
Regulation III -Fees	Provides for the MBARD to collect fees for the operation of the MLPP.	Continued compliance is expected.
Regulation IV -Prohibitions Rule 400 (Visible Emissions)	Limits visible emissions opacity to less than 20 percent (or Ringelmann No. 1) with specific exemptions. The Rule has a limited exemption for turbines during startup periods.	The limited exemption is not included in the current conditions of certification and is proposed to be added. The MBARD reports opacity has been observed from the gas turbines on cold starts due to the configuration of their dry-low NOx combustors. This opacity is reported to be below the standard. The facility is still required to comply with all nuisance requirements.
Regulation IV -Prohibitions Rule 402 (Nuisance)	Prohibits the discharge of air contaminants or other material which could detrimentally impact the public.	Conditions are included in the license and Title V permit to ensure compliance
Regulation IV -Prohibitions Rule 403 (Particulate matter)	Specifies standards for particulate matter emission concentrations based on exhaust flow rate and process weight. Exempts stationary internal combustion engines.	The MLPP turbines are limited by emission limits established through New Source Review that are more restrictive than the limits in Rule 403
Regulation IV -Prohibitions Rule 404 (Sulfur Compounds and Nitrogen Oxides)	Establishes restrictions on sulfur compounds and NOx emissions.	The combined-cycle units are exempt from the emission limits in the rule based on the established BACT requirements. The diesel fired engines are subject to the requirements. Based on the internal combustion engine's specifications, they are expected to comply with the emission requirements.

APPLICABLE LAW	DESCRIPTION	COMPLIANCE
Regulation IV -Prohibitions Rule 412 (Sulfur Content of Fuels)	Establishes requirements for the sulfur content of fuel combusted.	The sulfur contents of the natural gas combusted in the turbines, and diesel combusted in the emergency engines and abrasive blasting equipment, are expected to comply with the requirements. Conditions are included in the Title V permit to ensure compliance. The requirements have been added to the conditions of certification.
Regulation IV -Prohibitions Rule 416 (Solvents)	Limits the sulfur content to 0.5 percent by weight for any liquid or solid fuel.	Continued compliance is expected because the engine burns ultra-low-sulfur diesel fuel with a sulfur content of no more than .0015 percent by weight. Conditions are included in the Title V permit to ensure compliance. The requirements have been added to the conditions of certification
Regulation IV -Prohibitions Rule 418 (Transfer of Gasoline into Stationary Storage Containers)	Establishes requirements for filling the gasoline storage tank. Establishes record keeping requirements for fuel delivery.	Conditions are included in the Title V permit to ensure compliance. The requirements have been added to the conditions of certification
Regulation IV -Prohibitions Rule 426 (Applications of Architectural Coatings)	Establishes requirements and VOC contents for architectural coatings.	Conditions are included in the Title V permit to ensure compliance. The requirements have been added to the conditions of certification
Regulation IV -Prohibitions Rule 429 (Applications of Nonarchitectural Coatings)	Establishes requirements for the application of non-architectural coatings.	The MBARD determined the onsite equipment met the rule requirements and no conditions were needed in the Title V permit. Staff concurs with the MBARD assessment.
Regulation IV -Prohibitions Rule 433 (Organic Solvent Cleaning)	Establishes operational and record keeping requirements for solvent cleaning and degreasing operations.	Conditions are included in the Title V permit to ensure compliance. The requirements were added to the conditions of certification.

APPLICABLE LAW	DESCRIPTION	COMPLIANCE
Regulation IV -Prohibitions Rule 434 (Coating of Metal Parts and Products)	Establishes requirements and VOC content limitations for architectural coatings.	Conditions are included in the Title V permit to ensure compliance. The requirements were added to the conditions of certification.
Regulation X -Toxic Air Contaminants Rule 1000 (Permit Guidelines and Requirements for Sources Emitting Toxic Air Contaminants)	Establishes requirements for risk assessments.	The MBARD concluded a risk assessment was not required since the operation profiles of the turbines were not going to change. Staff concurs with the assessment.
Regulation X -Toxic Air Contaminants Rule 1002 (Transfer of Gasoline into Vehicle Fuel Tanks)	Establishes requirements for installing and operating ARB Certified Vapor Recover (Phase II) systems	Conditions are included in the Title V permit to ensure compliance. The requirements were added to the conditions of certification.

SETTING

SITE DESCRIPTION

MLPP is located east of the community of Moss Landing, near the Moss Landing Harbor, in the Monterey County portion of the Northern Central Coast Air Basin.

AMBIENT AIR QUALITY STANDARDS

Ambient air quality standards are designed to protect public health. Federal and state ambient air quality standards have been revised since the CEC Decision. The California Ambient Air Quality Standards, established by ARB, are typically lower (more stringent) than the federally established NAAQS. For reference, the current state and federal ambient air quality standards are listed in **Air Quality Table 2**. The averaging time for the various ambient air quality standards ranges from one hour to one year. The standards are read as a concentration, in parts per million (ppm), parts per billion (ppb), or as a weighted mass of material per unit volume of air, in milligrams (mg) or micrograms (µg) of pollutant in a cubic meter (m^3) of ambient air, drawn over the applicable averaging period.

Air Quality Table 2
Federal and State Ambient Air Quality Standards

Pollutant	Averaging Time	Federal Standard	California Standard
Ozone (O_3)	8 Hour	0.070 ppm (137 µg/m^3)[a]	0.070 ppm (137 µg/m^3)
	1 Hour	—	0.09 ppm (180 µg/m^3)
Carbon Monoxide (CO)	8 Hour	9 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)
	1 Hour	35 ppm (40 mg/m^3)	20 ppm (23 mg/m^3)
Nitrogen Dioxide (NO_2)	Annual	53 ppb (100 µg/m^3)	30 ppb (57 µg/m^3)
	1 Hour	100 ppb (188 µg/m^3)[b]	180 ppb (339 µg/m^3)
Sulfur Dioxide (SO_2)	24 Hour	—	0.04 ppm (105 µg/m^3)
	3 Hour	0.5 ppm (1300 µg/m^3)	—
	1 Hour	75 ppb (196 µg/m^3)[c]	0.25 ppm (655 µg/m^3)
Respirable Particulate Matter (PM10)	Annual	—	20 µg/m^3
	24 Hour	150 µg/m^3	50 µg/m^3
Fine Particulate Matter (PM2.5)	Annual	12 µg/m^3	12 µg/m^3
	24 Hour	35 µg/m^3 [b]	—
Sulfates (SO_4)	24 Hour	—	25 µg/m^3
Lead	30 Day Average	—	1.5 µg/m^3
	Rolling 3-Month Average	0.15 µg/m^3	—
Hydrogen Sulfide (H_2S)	1 Hour	—	0.03 ppm (42 µg/m^3)
Vinyl Chloride (chloroethene)	24 Hour	—	0.01 ppm (26 µg/m^3)
Visibility Reducing Particulates	8 Hour	—	In sufficient amount to produce an extinction coefficient of 0.23 per kilometer due to particles when the relative humidity is less than 70 percent.

Source: ARB 2020a, U.S. EPA 2020b
Notes: [a] Fourth- highest maximum 8 – hour concentration, averaged over 3 years.
[b] 98th percentile of daily maximum value, averaged over 3 years
[c] 99th percentile of daily maximum value, averaged over 3 years

AMBIENT AIR QUALITY ATTAINMENT STATUS

Federal and state ambient air quality attainment status designations have been revised since the CEC Decision. MLPP is located in the Monterey County portion of the Northern Central Coast Air Basin (NCCAB) and is under the jurisdiction of the MBARD. Data from air monitoring sites throughout the NCCAB determines the attainment status and air quality trends.

For convenience, staff includes **Air Quality Table 3**, which summarizes the area's current attainment status for state and federal ambient air quality standards (AAQS) for the NCCAB.

Air Quality Table 3
NCCAB Attainment Status

Pollutant	Attainment Status	
	Federal Classification	**State Classification**
Ozone (1-hr)	No Federal Standard	**Nonattainment-Transitional**
Ozone (8-hr)	Unclassified/Attainment	
CO	Unclassified/Attainment	Attainment
NO_2	Unclassified/Attainment	Attainment
SO_2	Unclassified/Attainment	Attainment
PM10	Unclassified	**Nonattainment**
PM2.5	Unclassified/Attainment	Attainment
Lead	Unclassified/Attainment	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Sulfates	No Federal Standard	Attainment
Visibility Reducing Particulates	No Federal Standard	Unclassified

Source: ARB 2020a, U.S. EPA 2020a
Note: Unclassified means the area is treated as attainment.

As shown in Air Quality Table 3, the 2019 state designations for the NCCAB include a change in the state ozone classification for the NCCAB. The nonattainment-transitional area designation is a subcategory of nonattainment. Ozone is designated this classification when there are three or fewer exceedances in the last year.

ANALYSIS

Staff is proposing to renumber the air quality conditions of certification. Discussion is included further down in this section. When referencing a condition of certification in this section, staff identifies the existing number and the proposed revised number follows in parenthesis if applicable.

CONSTRUCTION

There is no significant physical construction associated with the changes.

REQUESTED CHANGES

DML is requesting the following modifications:

- Remove Air Quality Conditions of Certification related to the two boilers that are no longer operational;
- Revise the facility quarterly emission limits;
- Clarify the definition of steam turbine cold startups;
- Clarify the definition of combustor tuning;
- Clarify the definition of short-term excursion;
- Remove the CO data substitution language;
- Incorporate a reporting protocol; and
- Clarify the breakdown reporting requirement.

BOILER OPERATION

DML requests the deletion of conditions of certification pertaining to the retired boilers. Staff agrees with deleting **AQ-21** through **AQ-27**. Conditions of Certification **AQ-21** through **AQ-27** pertain exclusively to retired Units 6-1 and 7-1.

When MLPP was licensed, boiler Units 6 and 7 were already in operation under MBARD-issued permits at the MLPP site. The CEC staff analysis included an equipment description for boiler Units 6 and 7. The description consisted of two boilers rated at 7,048 MMBtu/hour each, two steam turbines rated at 1,515 MW each, and seawater cooling intake and outfall structures. The Decision incorporated several air quality conditions of certification that included operating requirements for boiler Units 6 and 7. The conditions of certification include Unit 6 and 7 mass emission rates, pollutant concentration limits, continuous monitoring procedures, and a combined annual facility emissions cap with emissions from combined-cycle Units 1 and 2 and boiler Units 6 and 7.

Boiler Units 6 and 7 permanently retired on December 31, 2016. On May 10, 2017, the facility owners submitted an application to the MBARD to bank emission reduction credits (ERCs) from Units 6 and 7. Prior to processing the ERCs, the MBARD was required to modify the MBARD-issued operating permits referencing boiler Units 6 and 7. Both the Title V and the individual operating permits for combined-cycle Units 1 & 2 required modification. In August 2017, the project owner submitted a request to the MBARD to inactivate the PTOs for boiler Units 6 and 7 and applications to amend the combined-cycle PTOs. In addition, the project owner submitted an application to the MBARD on June 14, 2017 to renew the title V operating permit that was due to expire on December 31, 2017.

The MBARD issued revisions to the MLPP operating permits to remove boiler Units 6 and 7. MBARD revised the Title V on January 4, 2018 and the combined-cycle PTOs on January 21, 2018. Boiler Units 6 and 7 are no longer operational and no longer have valid operating permits. The MBARD confirmed the boilers could not resume operation

without attaining new operating permits issued with the application of New Source Review (NSR). Therefore, staff removed boiler Units 6 and 7 operating requirements in Conditions of Certification **AQ-21** through **AQ-27**.

CUMULATIVE EMISSIONS

DML revised the quarterly cumulative emissions in Condition of Certification **AQ-28** (**AQ-7**). The CEC licensed the MLPP incorporating a quarterly emission cap covering operations from combined-cycle Units 1 and 2 and boiler Units 6 and 7. Per the FDOC, the applicant requested the emissions cap to limit the total emissions from all power generating equipment at the facility in order to reduce the quantity of offsets necessary for the installation of the combined-cycle units. The power generating equipment emissions cap allowed flexibility to operate some units preferentially or fire all the units for a finite time during any one year. The Decision included the quarterly power generating equipment emissions cap as the quarterly cumulative emission limits in Condition of Certification **AQ-28** (**AQ-7**). The current quarterly cap emission limits are included for reference in **Air Quality Table 4**. **Air Quality Table 4** also includes staff calculated annual totals.

Air Quality Table 4
Decision Quarterly Emission Cap (pounds)

	NOx	SOx	VOC	PM10	CO
First Quarter (pounds)	286,778	23,823	144,537	213,533	2,929,068
Second Quarter (pounds)	285,301	24,567	150,294	221,488	3,059,753
Third Quarter (pounds)	409,492	32,613	212,540	307,505	4,472,774
Fourth Quarter (pounds)	336,584	29,468	188,206	273,879	3,920,385
Annual Totals (pounds)*	1,318,155	110,471	695,577	1,015,405	14,381,980

Source: CEC 2000, CEC 2000a, MBUAPCD 2000, and staff analysis
*Note: The annual total pounds of emissions for all quarters are not included in Condition of Certification **AQ-28** (**AQ-7**). The annual totals are included here for informational purposes.

DML is proposing to amend the quarterly cumulative emissions using the same emission rates and operating scenario as the previous analyses for combined-cycle Units 1 and 2. The operating scenario used to calculate the potential emissions for combined-cycle Units 1 and 2 includes 100 hours of regular startup emissions and 2,000 hours of baseload operation per turbine per quarter. Staff considers revising the quarterly emission limits using regular startup emission factors as opposed to cold startup emission factors reasonable for these longer-term emission limits.

The baseload emission rates are included in Condition of Certification **AQ-15** (**AQ-3**) and the four-hour startup and cold startup/combustor tuning emission rates in Condition of Certification **AQ-17** (**AQ-5**). Condition of Certification **AQ-17** (**AQ-5**) only includes the startup and shutdown emission rates for NOx, CO, and VOCs. Maximum baseload emission rates for PM10 and SOx, are considered equivalent to the startup

emissions rates. The hourly emission rates for baseload operations and emission rates for both regular and cold startup events are included in **Air Quality Table 5.**

Air Quality Table 5
CTG Emissions Rates (pounds/hour)

Per Turbine	NOx	SOx	VOC	PM10	CO
Baseload	17.23	1.30	4.79	9.0	37.76
Startup (4-hours)	320	-----	64	-----	3,608
Cold Startup/Tuning (6-hours)	480	-----	214.0	-----	

Source: MBUAPCD 2000, CEC 2000a, CEC 2004
Note: The CEC FSA included a lower SOx emission rate for hourly startup operations. However, this value was not included in the conditions of certification and SOx emissions were calculated using the baseload rate in **Air Quality Table 5**.

The revised quarterly emission limitations for Condition of Certification **AQ-28** (**AQ-7**) are included in **Air Quality Table 6** with staff calculated annual totals.

Air Quality Table 6
Proposed Quarterly Emissions (pounds)

	NOx	SOx	VOC	PM10	CO
First Quarter (pounds)	169,840	10,920	44,720	75,600	662,960
Second Quarter (pounds)	169,840	10,920	44,720	75,600	662,960
Third Quarter (pounds)	169,840	10,920	44,720	75,600	662,960
Fourth Quarter (pounds)	169,840	10,920	44,720	75,600	662,960
Annual Totals (pounds)*	679,360	43,680	178,880	302,400	2,651,840

Source: DML 2000, MBARD 2019, and staff analysis
*Note: The annual total pounds of emissions for all quarters are not included in Condition of Certification **AQ-28** (**AQ-7**).

The MBARD-issued permits include a quarterly limit of 662,960 pounds of CO. The MBARD analysis of the removal of boiler Units 7 and 8 used the same operating scenario and emission factors to calculate the potential emissions for combined cycle Units 1 and 2. However, staff calculated a quarterly CO emission limit of 662,880. Staff reviewed the MBARD analyses including emission factors and listed assumptions and could not determine a basis for the slightly higher quarterly CO emission limits.

For consistency, staff used the same CO quarterly emission limit included in the MBARD-issued Title V in Condition of Certification **AQ-28** (**AQ-7**). The proposed quarterly emissions in **Air Quality Table 6** are still lower than the current quarterly emissions cap for all pollutants and quarters. Additional discussion of the emissions cap is included below in the mitigation sections.

DEFINITION CLARIFICATIONS

DML is proposing to clarify the definitions for steam turbine cold startups, combustor tuning, and short-term excursion. The air quality conditions of certification approved in the Decision, include separate emission limits for startup and shutdown periods. The conditions of certification define startup and shutdown periods in terms of operating time. The CEC amended the conditions in 2002 and 2004 to further address non-steady state operations.

CEC 2004 established a separate category for startup periods when the steam turbine is out of operation for 72 hours or more referred to as cold startups. As shown in **Air Quality Table 5,** cold startup periods have longer durations and higher short-term emissions compared to regular startup periods. CEC 2004 established emission and duration limits for combustor tuning activities that are identical to the cold startup restrictions. In addition, CEC 2004 established additional restrictions for the operations of all turbines during cold startup and combustor tuning periods.

A modeling analysis was used to demonstrate that impacts from the increased NOx and CO limits for cold startup and combustor tuning activities would remain below state and federal 1-hour and 8-hour ambient air quality standards in effect at the time of the amendment. The worst-case hour scenario used in the modeling assumed one turbine operating during a steam turbine cold startup or combustor tuning while the remaining three turbines operate under a normal load. The modeling did not include annual scenarios as the longer-term emission limits were not changed.

Two new Conditions of Certification, **AQ-48** and **AQ-49,** were added restricting turbine operations supporting a cold startup or combustor tuning. Condition of Certification **AQ-48** restricts operations to only one gas turbine supporting a steam turbine cold startup or undergoing combustor tuning at a time. Condition of Certification **AQ-49** restricts operations to 30 hours per year for each turbine supporting a steam turbine cold startup or undergoing combustor tuning.

The supporting analysis (MLPP 2003) included a discussion of the emission limits and assumptions applicable to steam turbine cold startup and combustor tuning periods. The analysis stated that steam turbine cold startups and gas turbine combustor tuning activities potentially have longer, low-load hold times. The analysis stated the highest hour of emissions during one of these periods might be up to 25 percent higher than total NOx over a startup period. Therefore, the supporting impact analysis used higher hourly emission rates for cold-startup scenarios instead of an hourly average of the startup period.

Air Quality Table 7 includes the emission rates evaluated in the MLPP 2003 and CEC 2004 analyses. **Air Quality Table 7** includes an assumed hourly emission rate for cold startup periods and the potential emissions from the entire event.

Air Quality Table 7
2003/2004 Proposed CTG and STG Emissions Limits
(pounds/hour or pounds/event)

	NOx	VOC	CO
Current startup, (pounds/four-hour startup event)	320	64	3,608
Proposed steam turbine cold startup or combustor tuning, (pounds/hour)	285	134	3,500
Proposed steam turbine cold startup or combustor tuning, (pounds/six-hour startup event)	480	214	5,412

Source: CEC 2004, MLPP 2003

Condition of Certification **AQ-17** (**AQ-5**) includes the current startup and proposed steam turbine cold startup or combustor tuning emission event limits in **Air Quality Table 7**. However, the limits on an hourly basis are not included in the conditions of certification.

The petition states the restriction in Condition of Certification **AQ-49** should only apply to turbine cold startups that last more than four hours or exceed the standard startup emission limits contained in Condition of Certification **AQ-17** (**AQ-5**). The petition proposes to make this clear by amending the definition of cold startup in Condition of Certification **AQ-15** (**AQ-3**).

Staff does not object to clarifying that the 30-hour limit apply only to turbine cold startups that last more than four hours or exceed the standard emission limits in Condition of Certification **AQ-17** (**AQ-5**). However, staff initially had concerns that amending the definition in Condition of Certification **AQ-15** (**AQ-3**) instead of clarifying the restriction in Condition of Certification **AQ-49** would impact other conditions of certification that include cold startup or combustor tuning operating limitations.

Condition of Certification **AQ-48** limits cold startup and combustor tuning activities to one turbine at a time. As discussed above, emissions are not evenly dispersed over a cold startup or combustor tuning event. In addition, previous analysis (MLPP 2003) stated data collected from CEMS during cold startups demonstrates the majority of emissions occur during the first three hours of a startup periods and quickly drop off after the third hour. Therefore, staff initially had concerns changing the definition in Condition of Certification **AQ-15** (**AQ-3**) could allow a scenario where two turbines were in startup operations at the same time and these emissions could be higher than the emissions analyzed in the previous impact analyses.

DML provided additional information regarding startup and cold startup events. DML stated the control room operator selects the appropriate startup sequence based on the actual initial steam turbine temperatures. In addition, DML stated the emission profile of each step of a startup sequence is consistent between startups. Therefore, if an operator initiates a cold start event for one unit, the operator would complete the cold

start sequence with the additional hold times. DML stated a cold startup sequence would not be able to meet the criteria of a regular startup once it is initiated and the operator would not initiate the second unit under a cold start while the other unit is in a cold start sequence. Therefore, there would not be the possibility of overlapping startup periods with elevated emissions.

Staff made the requested language changes to distinguish cold startup periods from non-cold startup periods in Condition of Certification **AQ-15** (**AQ-3**). Condition of Certification **AQ-15** (**AQ-3**) includes emission requirements for the operation of the combined-cycle units. These emission limits are not applicable to startup, shutdown, and tuning periods. The language currently contains necessary constraints on startup, shutdown, and tuning periods. The language change is consistent with MBARD requirements.

The petition proposes to clarify the definition of combustor tuning in Condition of Certification **AQ-15** (**AQ-3**). Condition of Certification **AQ-15** (**AQ-3**) does not clearly identify what qualifies as combustor tuning activity. Components of gas turbine combustor assemblies require periodic replacements. Combustor tuning is required after components of gas turbine combustor assemblies are installed or replaced. Combustor tuning is also required for ongoing maintenance and seasonal adjustments throughout the year. The proposed language would clarify the definition 'combustor tuning activity' covers both the immediate tuning after a combustor replacement and the ongoing combustor tuning performed for maintenance. Staff's review of previous analyses (MLPP 2003 and CEC 2004) clearly indicate this was always the intention. Staff incorporated the clarifying language for combustor tuning in Condition of Certification **AQ-15** (**AQ-3**).

The MBARD included additional changes to Condition of Certification **AQ-15** (**AQ-3**) that were not included in the petition. MBARD included the addition of language to clarify testing activity associated with combustor tuning activities. The additional text proposed provides references to specific tests covered under the exemption. The specified tests are acceptable activities for the combustor tuning exemption. Staff incorporated the clarifying language for testing in Condition of Certification **AQ-15** (**AQ-3**) consistent with the language in the MBARD-issued permits.

DML proposes to clarify the definition of short-term excursions. Condition of Certification **AQ-18** (**AQ-6**) allows relief from steady state emission limitations for NOx during pre-mix mode switchovers. To qualify, short-term excursions are limited to 15-minute periods and 30 parts per million by volume dry corrected to 15 percent oxygen. DML requests to change the term "pre-mix mode switchover" to the more general term, "combustion mode switchover" now included in the MBARD-issued Title V permit. The MBARD-issued Title V permit previously allowed this excursion for diffusion mode switchovers. Pre-mix mode switchovers and diffusion mode switchovers are different events. Staff requested clarifications to the terms to ensure this change would not extend allowable short-term excursions to additional events.

DML provided additional information on the intended use of the term 'combustor mode switchover' and current GE gas turbine sequencing and vocabulary. DML stated there is only one mode switchover that short-term excursions are needed. Therefore, the more general proposed terminology would not extend allowable excursions. Staff updated the language in Condition of Certification **AQ-18** (**AQ-6**)**.**

CO SUBSTITUTION DATA AND REPORTING PROTOCOL

The petition proposes to remove the CO data substitution requirement from Condition of Certification **AQ-19** (**AQ-34**). Condition of Certification **AQ-19** (**AQ-34**) requires a CEMS for CO and the CEMS operated in accordance with 40 CFR Part 60 Appendix F (Appendix F). Appendix F establishes procedures to assess and improve the quality of CEMS data. Appendix F requires CEMS calibration, calibration drift determination, preventive maintenance, data recording and reporting, accuracy audit procedures and corrective action program. Condition of Certification **AQ-19** (**AQ-34**) outlines procedures for determining CO values when there is missing CO data from the CEMS. Missing data procedures for CO are not included in Appendix F. The petition states:

> *However, 40 CFR 60.334(b)(3)(iii) specifies that missing data periods to which 40 CFR Part 75 data substitution procedures are applied should be identified as missing data for the purposes of Part 60 monitoring/reporting. To ensure consistency with the 40 CFR Part 60 and the Permits' requirements, the Petitioner has proposed to remove the above CO data substitution language in the Permits.*

40 CFR 60.334(b)(3)(iii) is included in 40 CFR Subpart GG-Standards of Performance for Stationary Gas Turbines and outlines the monitoring of emissions and operations requirements. The referenced section establishes requirements for NOx CEMS that meet requirements of part 75. This section does not apply to a CO CEMS.

Condition of Certification **AQ-19** (**AQ-34**) specifies the CO_2, O_2, and NOx CEMS are subject to 40 CFR Part 72 and 75 requirements. 40 CFR Part 72 through 78 establish the Acid Rain Program Regulations. 40 CFR Part 75 (Part 75) correlates with the New Source Performance Standards in 40 CFR Part 60 Subpart GG (Subpart GG). Subpart GG allows a certified Part 75 NOx CEMS for excess emissions monitoring. Part 75 establishes procedures for missing data from CEMS. Per the missing emission data procedures, substitute data values are automatically handled by the CEMS data acquisition handling system (DAHS). These procedures are specific to the monitored pollutant and do not include guidelines for CO because CO monitoring is not established under the Acid Rain core regulations.

The CO CEMS was required as part of the air quality conditions of certification in the Decision. At the time of licensing, the BACT level for CO supported by the Air Resources Board was 4 ppm at 15 percent oxygen for CO through use of oxidation catalyst technology. The project owner proposed a BACT limit of 9 ppm at 15 percent for CO based on combustion practices citing CO oxidation catalysts as not a proven technology. CO emissions can range greatly depending on how the turbine is operated. In order to

make sure the CO emissions meet the determined BACT levels and emission requirements in the license, a CEMS was required with CO substitution requirements to ensure the integrity of the CO CEMS data.

The petition also proposes to incorporate by reference a reporting protocol addressing monthly reporting of the CEMS data and DAHS calculations for the project in the conditions of certification. At the time the petition was submitted, the reporting protocol was not finalized and did not include adequate detail on CO substitution requirements to determine if the protocol met the intent of the language from the Decision. The Monitoring and Reporting Protocol for Monthly Reporting was revised and finalized in December 2017. The finalized monitoring protocol includes specific CO substitution procedures. In addition, the DAHS was upgraded to incorporate Part 75 CO substitution procedures in July 2020. A DAHS utilizing Part 75 data substitution procedures provides high quality data and ensures the original intent of CO substitution language in Condition of Certification **AQ-19** (**AQ-34**) is still followed.

The Monitoring and Reporting Protocol for Monthly Reporting is part of a settlement agreement between the MBARD and DML. This settlement agreement was the result of a multi-year enforcement investigation regarding MLPP CEMS data. The Monitoring and Reporting Protocol for Monthly Reporting was developed in coordination with the MBARD to ensure the integrity of the reports and is now a requirement of the MBARD-issued title V permit.

Condition of Certification **AQ-33** (**AQ-48**) includes monthly reporting requirements. The condition includes an itemized list of information the owner/operator is required to submit in monthly reports. The petition proposes to delete the list and replace it with a requirement to submit the monthly reports in the CEMS in accordance with the Monitoring and Reporting Protocol for Monthly Reporting. The petition originally proposed language that included 'upon its approval by the District'. Staff had concerns with approving the language prior to the finalization of the protocol. The protocol has now been finalized and therefore staff is proposing to update the language to reflect the final document. Staff does not object to incorporating the protocol by reference, however staff maintains that any future changes to the document need to be submitted to the CPM. Therefore, staff added to Condition of Certification **AQ-SC9** additional language requiring the project owner to submit changes to the protocol to the CPM for review.

In addition, the finalized language included in the MBARD-issued permits references the Monitoring and Reporting Protocol and continues to list the minimum requirements that need to be included in the monthly reports. Staff retained the list of minimum requirements and referenced the Monitoring and Reporting Protocol consistent with the finalized language in the MBARD issued permits.

BREAKDOWN REPORTING

The petition is proposing changes to the breakdown reporting requirement in Condition of Certification **AQ-42** (**AQ-49**). Condition of Certification **AQ-42** (**AQ-49**) requires a written report submitted to the MBARD within five days after a breakdown has occurred. The petition is proposing language to clarify the requirement is five working days. The basis of this change is the MBARD rule requirement allows five working days as opposed to calendar days to submit the report. Staff clarified the language in Condition of Certification **AQ-42** (**AQ-49**) as proposed. Staff notes the change does not impact the requirement in Condition of Certification **AQ-42** (**AQ-49**) to report the breakdown to the MBARD within 1 hour of the occurrence.

MITIGATION

As discussed above, the MLPP Decision incorporated a facility emissions cap that included emissions from existing boiler Units 6 and 7 operation.

Per the Decision, the MLPP net emission increase was evaluated by calculating maximum future emissions from the existing boiler Units 6 and 7, as well as from the new combined-cycle units. The expected maximum emissions were a combined total from Units 6 and 7 and new Units 1 and 2. The expected maximum emissions were compared with actual emissions from the existing Units 6 and 7. The difference between the potential operation emissions and the actual emissions was the only portion that required mitigation with ERCs.

The actual or historical emissions from existing Units 6 and 7 were established as baseline operation for the MLPP. The MBARD rules and regulations require historical emission be based on emissions over three consecutive years, or a shorter period, within the five-year period immediately preceding the date of the application, that represents normal source operation. Due to a lengthy boiler outage and lower demand during the licensing period, it was agreed that the calendar years of 1994 and 1995 would be used to establish the historical operation of the facility. The baseline emissions were calculated using emission factors and the 1994 and 1995 fuel consumption. The baseline emissions for Units 6 and 7 are included in **Air Quality Table 8.**

Air Quality Table 8
Historical Baseline Emissions Units 6-7

	NOx	Sox	VOC	PM10	CO
First Quarter (pounds)	236,978	13,594	105,164	145,322	3,110,479
Second Quarter (pounds)	135,271	7,760	60,030	82,953	1,868,633
Third Quarter (pounds)	267,291	15,333	118,616	163,911	3,175,195
Fourth Quarter (pounds)	267,955	15,371	118,911	164,318	3,501,597

Source: MBUAPCD 2000, and staff analysis

The net emission increase for the project was determined as the difference between the emissions cap included in **Air Quality Table 4** and the historical baseline included in **Air Quality Table 8.** The net emission increase is included in **Air Quality Table 9**.

Air Quality Table 9
Net Emission Increase

	NOx	SOx	VOC	PM10	CO
First Quarter (pounds)	49,800	10,229	39,373	67,211	-181,411
Second Quarter (pounds)	150,030	16,807	90,264	138,535	1,191,120
Third Quarter (pounds)	142,201	17,280	93,924	143,594	1,297,579
Fourth Quarter (pounds)	68,629	14,097	69,295	109,561	418,788
Totals (pounds)	410,660	58,413	292,856	458,901	2,726,076
Total (tons)	205.33	29.21	146.43	229.45	1,363.04

Source: MBUAPCD 2000, and staff analysis

The actual offsets used for the project are included in **Air Quality Table 10**. This includes emission offsets that were not required at the time of the Decision but were surrendered prior to operations. It was demonstrated at the time of the Decision that the project owner held adequate ERCs to offset the MLPP under the MBARD requirements.

Modeling for CO was conducted to demonstrate that CO emissions from the facility would not cause or contribute to a violation of the ambient air quality standards. Therefore, it was determined that mitigation for CO would not be required. As demonstrated in **Air Quality Table 3** the area remains attainment for CO.

Air Quality Table 10
Original Mitigation Obtained (pounds)

	NOx	SOx	VOC	PM10
First Quarter (pounds)	57,685	5,595	88,982	15,351
Second Quarter (pounds)	190,855	25,946	107,632	71,203
Third Quarter (pounds)	191,204	25,963	108,582	71,251
Fourth Quarter (pounds)	111,850	13,815	98,007	37,911
Total (pounds)	551,594	71,319	403,203	195,716
Total (tons)	275.80	35.66	201.60	97.86

Source: CEC 2000, MBUAPCD 2000, and staff analysis

As demonstrated in **Air Quality Table 10** the facility was mitigated on a quarterly basis and incorporated inter-pollutant offsets. The operations of the boiler were expected to gradually be phased out. Therefore, the Decision allowed the mitigation of the net increase instead of the entire combined-cycle potential to emit and established an emissions cap. Due to the emissions cap, there is a gap between the potential emissions from the permitted operation of the combined cycle and the original emission reduction credits (ERCs) obtained to mitigate the addition of the combined cycles.

DML submitted an application to the MBARD to bank emission reduction credits (ERCs) from the retirement of Units 6 and 7. The ERC application was processed by the MBARD. Staff reviewed the ERC analysis to verify the ERCs issued by the MBARD were in fact surplus because the boilers operations were included in the original mitigation calculations. The MBARD allocates ERCs in tons. However, for comparison purposes **Air Quality Table 11** includes the ERC allocations for Units 6 and 7 in tons. Staff notes that potential value of the offsets is determined at time of use. If the offsets are used at a major source, they would be reduced by Reasonable Available Control Technology at the time of use.

Air Quality Table 11
ERC Allocations

	NOx	SOx	VOC	PM10	CO
First Quarter (pounds)	160	Neg	40	60	400
Second Quarter (pounds)	6,460	140	1,380	2,140	15,908
Third Quarter (pounds)	8,500	180	1,800	2,800	20,900
Fourth Quarter (pounds)	1,780	40	380	580	4,400
Totals (pounds)	16,900	360	3,600	5,580	41,608
Total (tons)	8.45	0.18	1.80	2.79	20.80

Source: CEC 2020 and staff analysis

In order to verify these allocations are in excess of the combined cycle mitigation, staff added the ERC allocations in **Air Quality Table 12** with the proposed quarterly

emissions in **Air Quality Table 6** and compared them to the original facility emissions cap. **Air Quality Table 13** includes the ERC allocations added to the proposed quarterly emissions.

Air Quality Table 13
Proposed Quarterly Emissions plus the ERC Allocations

	NOx	SOx	VOC	PM10	CO
First Quarter (pounds)	170,000	10,920	44,760	75,660	663,360
Second Quarter (pounds)	176,300	11,060	46,100	77,740	678,868
Third Quarter (pounds)	178,340	11,100	46,520	78,400	683,860
Fourth Quarter (pounds)	171,620	10,960	45,100	76,160	667,360
Totals (pounds)	696,260	44,040	182,480	307,980	2,693,448
Total (tons)	348.13	22.02	91.24	153.99	1,346.72

Source: CEC 2000, MBARD 2019, and staff analysis

The values in **Air Quality Table 13**, are well below the original emission caps in **Air Quality Table 4** for every pollutant in every quarter even considering any uncertainty from rounding.

EQUIPMENT CLARIFICATIONS

Staff added equipment descriptions to the Air Quality Conditions of Certification. The descriptions include operational parameters such as heat rates and generating capacities and form the basis of the environmental analysis. These equipment descriptions are enforceable parts of the license and must be updated if the equipment or operation of the equipment changes outside the parameters included in the descriptions. This format is consistent with the format of more recent projects.

The Title V permit covers all operations at a facility. The Title V permit for MLPP historically covered Unit 6 and 7 operation, as well as the two combined-cycle turbine units and other ancillary equipment. Ancillary equipment includes, aqueous ammonia storage tanks, startup package boiler, gasoline storage tank, abrasive blasting equipment, paint spray facility, emergency generator and fire pumps, and fume hoods.

The current MBARD-issued Title V lists five 30,000-gallon aqueous ammonia tanks. The aqueous ammonia storage tanks are used to store ammonia used for the emission control systems of the combined-cycle turbine units. The Major Equipment List in the Decision identified one 33,000-gallon aqueous ammonia tank used for NOx control. DML verified there are currently five storage tanks each with a capacity of 30,000 gallons permitted under U.S. EPA's Risk Management Plan Rule. Staff added Condition of Certification **AQ-25** requiring compliance with federal requirements for Risk Management Plans consistent with MBARD requirements.

The current MBARD-issued Title V lists a 1,000 gallon above-ground gasoline tank. The gasoline tank was installed in 2004 and is used for facility vehicles and equipment. Staff is adding Conditions of Certification **AQ-19**, **AQ-20**, and **AQ-44**. Conditions of Certification **AQ-19** and **AQ-20** establish Phase I requirements for the storage tank and Phase II requirements for the dispensing equipment. Condition of Certification **AQ-44** requires records for gasoline deliveries. These conditions are consistent with MBARD requirements.

The current MBARD-issued Title V includes a paint spray facility. The paint spray facility is an unconfined spray coating operation used for regular maintenance permitted in 2005. The facility is located close to the ocean and this type of environment can be corrosive to equipment. The facility uses compliant coatings to protect the facility and equipment. Staff added Conditions of Certification **AQ-18**, **AQ-21**, **AQ-22**, and **AQ-23**. These conditions include requirements for solvent and coating applications. These conditions are consistent with MBARD requirements.

The current MBARD-issued Title V includes three emergency fire pumps. The diesel-fired emergency engines were permitted in 2005. Staff added Conditions of Certification **AQ-17**, and **AQ-27**. Condition of Certification **AQ-17** establishes a sulfur content limit for fuel oil. Condition of Certification **AQ-27** includes requirements for maintenance. These conditions are consistent with MBARD requirements.

The latest MBARD-issued Title V revision included the removal of an emergency generator. The emergency generator was used to support Boiler 6-1 and 7-1. The engine was last operated in 2017 and the MBARD-issued permit was cancelled.

The current MBARD-issued Title V includes laboratory fume hoods. MLPP facility staff hold certifications to perform specific quality assurance control tests onsite. These tests are performed in a small onsite laboratory. These operations are subject to applicable general facility requirements.

The latest MBARD-issued Title V revision included the removal of the startup package boiler from the equipment list. However, the MBARD-issued Title V permit still includes the startup package boiler as equipment subject to the quarterly emission cap. Staff believes this to be a typo as the MBARD removed the startup boiler package from the Title V equipment section. In addition, emissions from the boiler operation are not included in the quarterly emission calculations. However, Staff is proposing to maintain consistency between the Title V requirements and the corresponding CEC license. Including the reference to the startup boiler in Condition of Certification **AQ-28** (**AQ-7**) would not impact compliance with the requirements.

ADDITIONAL REQUESTED CONDITION CHANGES

DML requests the deletion of **AQ-29** (**AQ-13**). **AQ-29** (**AQ-13**) requires properly operated and maintained selective catalytic reduction system to abate Units 6-1 and 7-

1. This requirement was included in the Decision. Staff replaced Units 6-1 and 7-1 with gas turbines in **AQ-29** (**AQ-13**). Condition **AQ-29** (**AQ-13**) requires properly operated and maintained selective catalytic reduction system. The Final Determination of Compliance issued by the MBARD included the requirement as a general condition without referencing any specific equipment. In addition, this requirement is currently included in the MBARD individual equipment permits for the turbines. This modification will align the conditions of certification with the existing MBARD permit requirements.

ADDITIONAL CONDITION CHANGES

CEC staff made additional changes to update the air quality conditions of certification with current requirements to ensure the facility operates in compliance with all LORS. These changes include formatting and incorporating additional changes included in the MBARD-issued operating permits.

The MBARD numbering for permit conditions no longer matches the CEC's numbering for the conditions of certification. In addition, the MBARD's operating permits for the turbine and the Title V permits have different numbering systems. Therefore, conditions that are included on each permit in some cases have two different numbers. In order to provide clarity and to avoid confusion between the MBARD numbering and CEC numbering, a table is included in the Air Quality conditions of certification that cross references the conditions in the MBARD permit to the conditions in the license and subsequent amendments. This format is consistent with the format of more recent projects.

Staff re-ordered the Air Quality conditions of certification. Staff moved staff conditions to the beginning of the license consistent with the format of more recent projects and to easily distinguish conditions that are only included in the CEC license. Staff also re-numbered these conditions using **AQ-SC** identifiers.

Staff defined and updated several acronyms to current CEC convention. Staff updated owner/operator to project owner and the consistent use of project owner throughout the conditions. Staff defined District to identify the appropriate facility permitting agency in the conditions of certification.

Staff added MBARD rule citations to corresponding conditions of certification to clarify the basis of each requirement. This change would provide a more accurate accounting of the facility requirements.

Staff made minor edits to spelling and grammar. Staff also clarified language and references in the conditions that do not impact the intent of the conditions.

Staff deleted Conditions of Certification **AQ-1** through **AQ-12** with the exception of **AQ-2** (see discussion below). These conditions were originally included in the Final Determination of Compliance from the MBARD and incorporated into the original air

quality conditions of certification in the Decision. These conditions are not included in the current MBARD-issued permits. These conditions contained requirements relevant to the period prior to fuel combustion and the commissioning period. These conditions are no longer need for the ongoing operation of the MLPP.

Staff re-classified and updated existing Condition of Certification **AQ-2**. Staff moved it to the staff condition section as Condition of Certification **AQ-SC6**. **AQ-2** was included in the original Decision and required the facility to obtain a Title V permit prior to combusting fuel in the gas turbines. The Title V permit was not required prior to construction since the MBARD issues separate operating permits for the equipment. The verification requires the submittal of copies of the Title V permits to the CPM no later than 30 days after the receipt of the permits. Staff is proposing to update the condition with standard language included in more recent CEC projects. The clarifying language would specify the project owner is to provide the CPM copies of any District issued permit for the facility. In addition, the language would require the submittal of all permit modifications to the CPM for review and approval. The requirement clarifications would allow staff to verify the MLPP continues to operate in compliance with all LORS.

Staff added Conditions of Certification **AQ-SC7** and **AQ-SC8** to clarify quarterly and annual reporting requirements. The MBARD-issued permits require monthly, quarterly, semiannual, and annual reporting. Additional reporting frequencies are required for other actions such as breakdowns. Currently, the project owner submits quarterly and annual reports to the CEC. Conditions of Certification **AQ-SC7** and **AQ-SC8** clarify the project owner will still be responsible for submitting quarterly and annual reports. The amendment seeks to streamline reporting.

Staff updated the requirements in **AQ-43** (**AQ-SC10**). This condition is no longer included in the MBARD-issued Tile V permit but is still a facility requirement. Staff proposed to retain the requirements as a staff condition.

Staff clarified Condition of Certification **AQ-16** (**AQ-4**). Staff updated the requirement from a one-hour rolling average to a clock hour average consistent with MBARD requirements.

Staff added Condition of Certification **AQ-12.** Condition of Certification **AQ-12** includes a Ringelmann and opacity requirement for startup periods. Staff notes that although the opacity requirement for startup periods is higher than normal operating periods the facility is still required to comply with all nuisance requirements during startup periods.

Staff added Conditions of Certification **AQ-13** through **AQ-16** and **AQ-24** and **26**. These conditions contain requirements to ensure MLPP complies with all LORS. Condition of Certification **AQ-13** includes a particulate exhaust standard. Condition of Certification **AQ-14** includes a sulfur exhaust standard. Condition of Certification **AQ-15** includes a nitrogen dioxide standard general opacity requirement. Condition of Certification **AQ-16** includes a fuel sulfur content requirement. Condition of Certification

AQ-24 includes a general asbestos requirement for demotion and renovation. Condition of Certification **AQ-26** includes general requirements for substances that deplete the ozone.

Staff deleted Condition of Certification **AQ-20.** Condition of Certification **AQ-20** included requirements for testing of the CEMS after commissioning and does not contain any ongoing testing requirements. Condition of Certification **AQ-20** is no longer included on the MBUAPCD issued permits.

Staff updated the language and requirements in Condition of Certification **AQ-41** (**AQ-28**). Condition of Certification **AQ-41** (**AQ-28**) includes requirements for on-going performance testing. Staff is proposing to add the specific pollutants the project owner is required to test as well as other testing parameters needed to verify compliance with the emission limits.

Staff added Conditions of Certification **AQ-29** through **AQ-32**. These conditions clarify that on-going testing is not required for some requirements however testing could be required by specified testing methods if necessary.

Staff clarified the requirements in Condition of Certification **AQ-40** (**AQ-33**). Condition of Certification **AQ-40** (**AQ-33**) includes on-going testing requirements for ammonia. The language updates incorporate the requirements in the CFR and is included in the MBUAPCD permits.

The MBARD-issued Title V changes CO substitution language included changes to **AQ-19** (**AQ-34**) and the addition of **AQ-36**. Condition of Certification **AQ-36** includes requirements that the CO CEMS is maintained and operated in accordance with federal requirements. The requirements include CEMS performance testing.

Staff updated Condition of Certification **AQ-30** (**AQ-38**). Staff included the change from a rolling three-hour period to a clock hour average for CO emissions.

Staff added Condition of Certification **AQ-40**. This condition requires the combustor tuning durations.

Staff added and/or modified of Conditions of Certification **AQ-43** through **AQ-53** to clarify testing, monitoring, and reporting requirements. Staff added and/or modified Conditions of Certification **AQ-54** through **AQ-70** to include general requirements.

CONCLUSIONS AND RECOMMENDATIONS

CEC made the proposed changes to the air quality conditions of certification. In addition, staff restructured and updated the existing air quality conditions of certification to meet current LORS. Staff added requirements already included in the

MBARD operating permits. In addition, staff updated the CEC staff conditions to clarify reporting requirements. Staff made the following changes:

- Added three new Staff Conditions **AQ-SC7**, **AQ-SC8**, and **AQ-SC9**;
- Updated **AQ-43** and changed to Staff Condition **AQ-SC10**
- Added equipment descriptions;
- Deleted no longer applicable Conditions of Certification **AQ-1** through **AQ-12;**
- Revised the quarterly emission limits in **AQ-28** (**AQ-7**);
- Added Conditions of Certifications **AQ-12** through **AQ-27**;
- Deleted Condition of Certification **AQ-20** containing initial testing requirements;
- Deleted Conditions of Certification **AQ-21** through **AQ-27** related to the two boilers that are no longer operational;
- Updated ongoing testing requirements in Condition of Certification **AQ-41** (**AQ-28**);
- Added Conditions of Certification **AQ-29** to **AQ-32**;
- Updated the ammonia slip requirements in Condition of Certification **AQ-40** (**AQ-33**);
- Updated the CEMS requirements in Condition of Certification **AQ-19** (**AQ-34**);
- Added CO CEMS requirements in new Condition of Certification **AQ-36**;
- Updated the CEMS requirements in Condition of Certification **AQ-37**;
- Added Condition of Certification **AQ-40** including monitoring requirements for cold startups and tuning periods;
- Added Conditions of Certifications **AQ-43** through **AQ-46** including recordkeeping requirements;
- Updated ongoing record keeping requirements in Condition of Certification **AQ-38** (**AQ-47**);
- Updated ongoing reporting requirements in Condition of Certification **AQ-33** (**AQ-48**);
- Added Condition of Certification **AQ-50** including facility emission limits;
- Updated ongoing reporting requirements in Condition of Certification **AQ-39** (**AQ-51**);
- Added Conditions of Certifications **AQ-52** and **AQ-53** containing ongoing reporting requirements;
- Added Conditions of Certifications **AQ-54** through **AQ-65** containing general facility requirements;
- Updated general requirements in Condition of Certification **AQ-47** (**AQ-66**); and

- Added Condition of Certification **AQ-67** including ongoing Title V requirements.

The proposed changes conform with the applicable LORS related to air quality and will not result in significant air quality impacts. There are no air quality environmental justice issues related to the proposed facility modifications and no minority or low-income populations would be significantly or adversely impacted.

PROPOSED AND AMENDED CONDITIONS OF CERTIFICATION

Staff made the following modifications to the conditions of certification. **Bold underline** is used to indicate new language. ~~Strikethrough~~ is used to indicate deleted language.

Monterey Bay Air Pollution Control District (MBUAPCD, MBARD or District) Permit Conditions with Corresponding CEC Conditions of Certification

MBARD Permit Condition	CEC		Condition Description
	Proposed	Current	
Staff Conditions			
NA	**AQ-SC1**	**AQ-50**	Fugitive dust plan requirement.
NA	**AQ-SC2**	**AQ-51**	Fugitive dust control requirements.
NA	**AQ-SC3**	**AQ-52**	Fugitive dust control requirements.
NA	**AQ-SC4**	**AQ-53**	Construction equipment plan requirement.
NA	**AQ-SC5**	**AQ-54**	Construction equipment requirements.
NA	**AQ-SC6**	**AQ-2**	Permit submittal requirement.
NA	**AQ-SC7**	**NA**	Periodic reporting submittal requirement.
NA	**AQ-SC8**	**NA**	Annual reporting requirement.
NA	**AQ-SC9**	**NA**	Changes to the monitoring protocol should be submitted to the CPM.
District Conditions			
1	**AQ-1**	**AQ-13**	Limits the heat input to each gas turbine.
2	**AQ-2**	**AQ-14**	Limits the gas turbines combined daily emissions.
3	**AQ-3**	**AQ-15**	Limits the hourly and daily mass emission rate from each gas turbine.
4	**AQ-4**	**AQ-16**	Limits emission concentrations from each gas turbine.
5	**AQ-5**	**AQ-17**	Limits the emission rates from each gas turbine during start-up, shutdown and combustor tunings. Includes time limits the listed operating periods.
6	**AQ-6**	**AQ-18**	Defines and allows for short term excursions.
7	**AQ-7**	**AQ-28**	Establishes quarterly emission limits.
8	**AQ-8**	**AQ-48**	Limits the operation to one gas turbine supporting a

MBARD Permit Condition	CEC		Condition Description
	Proposed	Current	
			steam turbine cold start-up and combustor tuning.
9	**AQ-9**	**AQ-49**	Limits the yearly hours of gas turbine operation when supporting a steam turbine start-up or combustor tuning.
10	**AQ-10**	**AQ-35**	Establishes annual Sulfur Dioxide Allowances.
11	**AQ-11**	**AQ-45**	Establishes Ringelmann and opacity requirements.
12	**AQ-12**	**NA**	Establishes additional Ringelmann and opacity restrictions during gas turbine start-up.
13	**AQ-13**	**NA**	Establishes particulate matter emission standard.
14	**AQ-14**	**NA**	Establishes sulfur compounds limitation in exhaust.
15	**AQ-15**	**NA**	Established NOx emission limitation.
16	**AQ-16**	**NA**	Limits sulfur content in gaseous fuels.
17	**AQ-17**	**NA**	Limits sulfur content in fuel oil.
18	**AQ-18**	**NA**	Limits VOC emissions from solvents.
19	**AQ-19**	**NA**	Establishes Phase 1 requirements for the gasoline storage tank.
20	**AQ-20**	**NA**	Establishes Phase 2 requirements for the gasoline dispensing equipment.
21	**AQ-21**	**NA**	Establishes VOC limits from architectural coatings.
22	**AQ-22**	**NA**	Establishes limits for VOC from solvent cleaning and degreasing operations.
23	**AQ-23**	**NA**	Established requirements for metal coating operations.
24	**AQ-24**	**NA**	Requires compliance with requirements in the National Emission Standard for Asbestos.
25	**AQ-25**	**NA**	Requires compliance with the federal requirements for Risk Management Plans and an annual certification of compliance.
26	**AQ-26**	**NA**	Requires compliance with federal requirements in 40 CFR Part 82 –Protection of Stratospheric Ozone.
27	**AQ-27**	**NA**	Establishes requirements for the operation of the emergency diesel fire pump.
Testing Requirements and Procedures			
28	**AQ-28**	**AQ-41**	Establishes annual performance testing for the gas turbines.
*	**AQ-28b**	**AQ-43**	Requires adequate stack sampling ports and platforms.
29	**AQ-29**	**NA**	Testing is not specified for general opacity requirements. Outlines testing method if performed.
30	**AQ-30**	**NA**	Testing is not specified for particulate emission

MBARD Permit Condition	CEC		Condition Description
	Proposed	Current	
			standard in Condition 13. Outlines testing method if performed
31	**AQ-31**	**NA**	Testing is not specified for sulfur concentration limit in Condition 14. Outlines testing method if performed
32	**AQ-32**	**NA**	Testing is not specified for NOx limit in Condition 15. Outlines testing method if performed
33	**AQ-33**	**AQ-40**	Establishes testing for compliance with ammonia limits.
34	**AQ-34**	**AQ-19**	Establishes CEMS requirements for CO, O_2 and NOx from the gas turbines.
35	**AQ-35**	**AQ-19, 36**	Establishes CEMS requirements for CO, O_2 and NOx from the gas turbines.
36	**AQ-36**	**AQ-19**	Establishes CEMS requirements for CO from the gas turbines.
37	**AQ-37**	**AQ-37**	Requires a Quality Assurance program for the CEMS.
38	**AQ-38**	**AQ-30**	Establishes CEMS recording parameters for the gas turbines.
39	**AQ-39**	**AQ-31**	Establishes monitoring requirements for VOC, PM10, SO_2 and NH_3 from the gas turbines.
40	**AQ-40**	**NA**	Requires record keeping for periods of steam turbine cold start-up and combustor tuning.
41	**AQ-41**	**AQ-32**	Requires measurement of inlet temperature and pressure differential for the SCR catalyst.
42	**AQ-42**	**AQ-34**	Requires SO2 emission monitoring.
43	**AQ-43**	**NA**	Requires daily records for VOCs from solvent operations.
44	**AQ-44**	**NA**	Requires records of gasoline deliveries.
45	**AQ-45**	**NA**	Requires maintenance for monitoring records.
46	**AQ-46**	**NA**	Requires maintenance of records for start-ups, shutdowns, and malfunction of CEMs.
47	**AQ-47**	**AQ-38**	Requires maintenance of monitoring data and support information.
Reporting Requirements			
48	**AQ-48**	**AQ-33**	Requires monthly reports on the CEMS.
49	**AQ-49**	**AQ-42**	Outlines reporting requirements for breakdowns.
50	**AQ-50**	**NA**	Emission statement required if emission from facility exceeds 25 tons of NOx or VOC.
51	**AQ-51**	**AQ-39**	Quarterly Data Reports are required to be submitted to EPA.

MBARD Permit Condition	CEC		Condition Description
	Proposed	Current	
52	**AQ-52**	**AQ-52**	Semiannual reports are required to be submitted to District in an approved format.
53	**AQ-53**	**NA**	Requires annual compliance report.
General Conditions			
54	**AQ-54**	**NA**	Requires compliance with permit conditions.
55	**AQ-55**	**NA**	Clarifies defense in enforcement actions.
56	**AQ-56**	**NA**	Clarifies permit status can be changed for cause.
57	**AQ-57**	**NA**	Outlines permit conveyances and authorizations.
58	**AQ-58**	**NA**	Outlines requested records requirements. Requires requested records to be furnished in a reasonable time period.
59	**AQ-59**	**NA**	Clarifies requirements shall be met on a timely basis.
60	**AQ-60**	**NA**	Requires documents submitted to be truthful, accurate and complete.
61	**AQ-61**	**NA**	Outlines reporting requirements for violations.
62	**AQ-62**	**NA**	Specifies requirements of the permits that remain valid during an administrative or judicial challenge.
63	**AQ-63**	**NA**	Annual emission fees are required for federal operating permit to remain valid.
64	**AQ-64**	**NA**	Federal operating permit shall be maintained at the facility.
65	**AQ-65**	**NA**	Clarifies emergency disclosure requirements.
66	**AQ-66**	**AQ-47**	Clarifies facility access for authorized personnel.
67	**AQ-67**	**NA**	Outlines renewal submittals.
NA	**AQ-68**	**AQ-29**	Gas turbine abatement with SCR requirement.
NA	**AQ-69**	**AQ-44**	Public nuisance requirement.
NA	**AQ-70**	**AQ-46**	Funding of the Salinas air monitoring station.

STAFF CONDITIONS

The referenced tables are included at the end of the Air Quality Conditions. For purposes of these staff conditions, the following definitions apply:

(1) **ACTIVE OPERATIONS** shall mean any activity capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, or heavy- and light-duty vehicular movement.

(2) **CHEMICAL STABILIZERS** mean any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation; and should meet any specifications, criteria, or tests required by any federal, state, or local water

agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.

(3) **CONSTRUCTION/DEMOLITION ACTIVITIES** are any on-site mechanical activities preparatory to or related to the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities; grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.

(4) **DISTURBED SURFACE AREA** means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust.

(5) **DUST SUPPRESSANTS** are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.

(6) **EARTH-MOVING ACTIVITIES** shall include, but not be limited to, grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, or soil mulching.

(7) **FUGITIVE DUST** means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of man.

(8) **INACTIVE DISTURBED SURFACE AREA** means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of ten consecutive days.

(9) **STABILIZED SURFACE** means:

A. any disturbed surface area or open storage pile which is resistant to wind-driven fugitive dust;

B. any unpaved road surface in which any fugitive dust plume emanating from vehicular traffic does not exceed 20 percent opacity.

(10) **VISIBLE ROADWAY DUST** means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

AQ-SC1~~-AQ-50~~ The **project** owner~~/operator~~ shall implement a **CEC Compliance Project Manager (**CPM**)** approved fugitive Dust Control Plan.

Protocol: The plan shall include the following:

1. A description of each of the active operation(s) which may result in the generation of fugitive dust;
2. An identification of all sources of fugitive dust (e.g., earth-moving, storage piles, vehicular traffic, etc.

3. A description of the control measures to be applied to each of the sources of dust emissions identified above (including those required in ~~**AQ-51**~~**AQ-SC2** below). The description must be sufficiently detailed to demonstrate that the applicable best available control measure(s) will be utilized and/or installed during all periods of active operations;
4. In the event that there are special technical (e.g., non-economic) circumstances, including safety, which prevent the use of at least one of the required control measures for any of the sources identified, a justification statement must be provided to explain the reason(s) why the required control measures cannot be implemented.

Verification: Not later than sixty (60) days prior to the start of rough grading, the **project** owner~~/operator~~ shall submit the plan to the ~~CEC~~ CPM for review and approval. The **project** owner~~/operator~~ shall maintain daily records to document the specific actions taken pursuant to the plan. A summary of the monthly activities shall be submitted to the CPM via the Monthly Compliance Report.

AQ-SC2~~-AQ-51~~ During the construction phase of the project, the **project** owner~~/operator~~ shall:

1. Prevent or remove within one hour the track-out of bulk material onto public paved roadways as a result of their operations, or take at least one of the actions listed in Table 2 (attached) to prevent the track-out of bulk material onto public paved roadways as a result of their operations and remove such material at anytime track-out extends for a cumulative distance of greater than 50 feet on to any paved public road during active operations;
2. Install and use a track-out control device to prevent the track-out of bulk material from areas containing soils requiring corrective to other areas within the project construction site and laydown area;
3. Minimize fugitive particulate emissions from vehicular traffic on paved roads and paved parking lots on the construction site by vacuum mechanical sweeping or water flushing of the road surface to remove buildup of loose material. The **project** owner~~/operator~~ shall inspect on a daily 116 basis the conditions of the paved roads and parking lots to determine the need for mechanical sweeping or water flushing.

Verification: The **project** owner~~/operator~~ shall maintain a daily log during the construction phase of the project indicating: 1) the manner in which compliance with this condition is achieved and 2) the date and time when the inspection of paved roads and parking lots occurs and the date and time(s) when the cleaning operation occurs. The logs shall be made available to the ~~CEC~~ CPM upon request.

AQ-SC3~~-AQ-52~~ At any time when fugitive dust from MLPP project construction is visible in the atmosphere beyond the property line, the **project** owner~~/operator~~ will identify the source of the fugitive dust and implement

one or more of the appropriate control measures specified in Table 3 (attached)

Verification: The **project** owner~~/operator~~ will maintain a daily log recording the dates and times that measures in Table 3 (attached) have been implemented and make them available to the ~~California CEC~~ CPM upon request.

AQ-SC4~~-AQ-53~~ The **project** owner~~/operator~~ shall implement an approved Construction Equipment Plan. The Plan shall identify how the **project** owner~~/operator~~ will ensure that all heavy equipment, that includes, but is not limited to, bulldozers, backhoes, compactors, loaders, motor graders and trenchers, and cranes, dump trucks and other heavy duty construction related trucks, used on-site by construction contractors and subcontractors:

a. are properly maintained;
b. limit idling times; and
c. meet federal emission standards for construction equipment.

Verification: Not later than thirty (30) days prior to the commencement of construction, the **project** owner~~/operator~~ shall submit the plan to the ~~California CEC~~ CPM for review and approval. The **project** owner~~/operator~~ shall maintain records to document the specific actions taken pursuant to the plan. A summary of the monthly activities shall be submitted to the ~~California CEC~~ CPM via the Monthly Compliance Report.

AQ-SC5~~-AQ-54~~ The project owner shall ensure that all heavy earthmoving equipment including, but not limited to, bulldozers, backhoes, compactors, loaders, motor graders and trenchers, and cranes, dump trucks and other heavy duty construction-related trucks, have been properly maintained and the engines tuned to the engine manufacturer s specifications. The project owner shall place into the account of the **Monterey Bay Unified Air Pollution Control District a.k.a. Monterey Bay Air Resources District (**District**)** s Carl Moyer Program, or into a similar District or State emission reduction program, $100,000 to cover the cost of permanent diesel retrofit or replacement that provides emission reductions at or near Moss Landing. It is the intention of this condition to link as closely as possible, in both time and location, the use of the deposited funds with heavy equipment construction activities at the project.

Verification: The project owner shall submit to the CPM, via the Monthly Compliance Report, documentation which demonstrates that the contractor s heavy earthmoving equipment is properly maintained and the engines are tuned to the manufacturer s specifications. The project owner shall maintain all records on the site for six months following the start of commercial operation. **The project** ~~O~~**o**wner~~/operator~~ shall request that funds deposited with the District be ear marked for the Moss Landing area. The **project** owner~~/operator~~ shall make the deposit within 30 days of receiving its final

permit authorizing project construction. **The project** ~~O~~**o**wner~~/operator~~ shall provide evidence to the ~~CEC~~ CPM of the timely deposit within 15 days of making the deposit.

AQ-SC6~~2~~ ~~Pursuant to the requirements of District Rule 218, owner/operator shall apply for and receive a revised Title V permit for the Moss Landing Power Plant prior to combusting fuel in the gas turbines.~~ **The project owner shall provide the CPM copies of any District or other agency-issued project air permit for the facility. The project owner shall submit to the CPM any request or application for a new project air permit or project air permit modification for review and approval.**

Verification: **The project owner shall submit any request or application for a new project air permit or project air permit modification to the CPM at the time of its submittal to the permitting agency.** The **project** owner~~/operator~~ shall provide ~~copies Title V permits to~~ the ~~CEC~~ CPM **a copy of any issued air permit, including modified air permits, within** ~~no later than~~ 30 days **of finalization.** ~~after the receipt of the permits from the District.~~

AQ-SC7 The project owner shall provide copies or summaries as indicated, of the monthly, quarterly, semi-annual, and annual reports submitted to the District, U.S. EPA, or ARB to the CPM in quarterly reports. The periodic quarterly compliance reports shall include a summary of any breakdowns relating to the project and any associated breakdown report.

Verification: The project owner shall provide the quarterly reports to the CPM within 45 days of the end of the quarter or another timeframe agreed upon between the CPM and project owner.

AQ-SC8 The project owner shall provide the CPM with an Annual Compliance Report demonstrating compliance with all the conditions of certification as required in the Compliance Monitoring Plan including General Conditions and Closure Plan for the facility.

Verification: The project owner shall provide the Annual Compliance Report to the CPM on a date approved by the CPM.

AQ-SC9 Any change to the CEMS monitoring protocol shall be submitted to the CPM for review.

Verification: The project owner shall provide any changes to the monitoring protocol to the CPM within 30 days.

AQ-~~43~~SC10 The **project** owner~~/operator~~ shall ~~provide~~ **maintain** adequate stack sampling ports and platforms to enable the performance of source testing. ~~The location and configuration of the stack sampling ports shall be subject to District review and approval.~~

Verification: ~~The owner/operator shall submit design drawings of the location and configuration of the stack sampling ports to District and CEC CPM review and approval at least 60 prior to the start of construction of the HRSG and stack.~~ **The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

District Permitted Equipment and Conditions

Equipment Descriptions

Two 530 MW Units – Combined-Cycle Units 1 & 2 Each Consisting Of:

Two Gas Turbine Generators, General Electric Frame 7, Model PG7241, Each Rated At 1,870 MMBtu/Hr Maximum Heat Input And 180 MW Nominal Electrical Output, With Dry Low-NOx Combustor.

Water Tube Type Heat Recovery Steam Generators (HRSG), Nominal Ratings: High Pressure Steam Capacity: 409,900 Lbs/Hr @ 1,903 psia And 1,047˚F, Intermediate Pressure Steam Capacity: 484,500 Lbs/Hr @ 358 psia And 1,022˚F, Low Pressure Steam Capacity: 55,300 Lbs/Hr @ 71 psia And 499˚F.

Steam Turbine Generator And Condenser Serving Gas Turbine Units, Quadruple Admission, Triple Extraction, 196.8 MW Nominal Rated Electrical Output.

Selective Catalytic Reduction NO_x Control Systems Located Within The HRSG.

Ammonia Injection Systems.

CEM Systems Designed To Continuously Record The Measured Gaseous Concentrations, And Calculate And Continuously Monitor And Record The NO_x And CO Concentrations Corrected To Fifteen (15) Percent Oxygen (O_2) On A Dry Basis.

Aqueous Ammonia Storage Tanks

Aqueous Ammonia Storage Tank Farm Consisting Of 5 Storage Tanks Each With A Capacity Of 30,000 Gallons.

Gasoline Storage Tanks

One 1,000 Gallon Above Ground Storage Tank With Dual Point Vapor Recovery And Submerged Fill Equipment.

Paint Spray Facility

Outdoor Paint Spray Operations Authorized At Three Locations.

Emergency Fire Pumps

Caterpillar Engine Driven Fire Pump 370, Bhp.

Two-Cummins Engine Driven Fire Pumps, Each 340 Bhp.

Laboratory Fume Hoods

Fume Hoods, Located In Chemical Laboratory

~~**AQ-1** The project owner/operator shall submit all design criteria and specifications on the gas turbine generators, the heat recovery steam generators, the steam turbine generator, the condensers, the SCR system, the ammonia injection system, and the CEM systems, and receive District approval prior to installation.~~

~~**Verification:** **Verification:** Prior to the first firing of the gas turbine, the owner/operator shall provide all design criteria and specifications on the gas turbine generators, the heat recovery steam generators, the steam turbine generator, the condensers, the SCR system, the ammonia injection system, and the CEM systems for review to the Energy Commission (CEC) CPM and the District, and shall receive approval from the District prior to installation.~~

~~**AQ-2** Pursuant to the requirements of District Rule 218, owner/operator shall apply for and receive a revised Title V permit for the Moss Landing Power Plant prior to combusting fuel in the gas turbines.~~

~~**Verification:**~~

~~**Verification:** **Verification:** The owner/operator shall provide copies Title V permits to the CEC CPM no later than 30 days after the receipt of the permits from the District.~~

~~**AQ-3** District-approved continuous emission monitors shall be installed, calibrated, and operational prior to first firing the gas turbines. After commissioning of the gas turbines, the detection range of these continuous emission monitors shall be adjusted as necessary to accurately measure the normal range of CO and NOx emission concentrations. The type, specifications, and location of these monitors shall be subject to District review and approval.~~

~~**Verification:** The owner/operator shall provide copies of the design drawings of the continuous emission monitor design detail to the CEC CPM at least 30 days prior to commencement of construction of the HRSG and the stack.~~

~~**AQ-4** Prior to the first firing of the gas turbines, the project owner/operator shall submit a Commissioning Plan to the APCO and the CEC CPM for review and approval. This plan shall describe the procedures to be followed during the commissioning of the gas turbines, the HRSGs, and the Steam Turbines. The plan shall include a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the tuning of the dry-low-NOx combustors, the installation and operation of the SCR systems, and the installation, calibration, and testing of the CO and NOx continuous~~

emission monitors, and any activities requiring the firing of the gas turbines without abatement by the SCR Systems.

Verification:

Verification: **Verification:** Within 30 days of first fuel firing of the gas turbine, the owner/operator shall provide a Commissioning Plan for approval to the CEC CPM and the District.

AQ-5 Prior to combusting fuel in the gas turbines, the owner/operator shall notify the District and arrange for an inspection of the equipment.

Verification:

Verification: **Verification:** The owner/operator shall notify the APCD at least seven (7) days prior to combusting fuel in the gas turbines. Copies of the notification shall be provided to the CEC CPM.

AQ-6 Owner/operator shall surrender the offsets identified in this evaluation prior to combusting fuel in the gas turbines. (Refer to **Air Quality Table 14** for the identity and required emission reduction credits by name and quantity.)

Verification:

Verification: **Verification:** The owner/operator shall provide copies of the Emission Reduction Credits (ERCs) to the District and the CEC CPM prior to combustion fuel in the gas turbines.

AQ-7 Owner/operator shall minimize emissions from the gas turbines to the maximum extent possible during the commissioning period

Verification:

Verification: **Verification:** See Condition AQ-4.

AQ-8 At the earliest feasible opportunity in accordance with the recommendation of the equipment manufacturer, the combustors of the gas turbines shall be tuned to minimize emissions.

Verification:

Verification: **Verification:** See Condition AQ-4.

AQ-9 At the earliest feasible opportunity in accordance with the recommendations of the equipment manufacturers, the SCR systems shall be installed, adjusted, and operated to minimize the emissions of nitrogen oxides and ammonia from the gas turbines

Verification:

Verification: **Verification:** See Condition AQ-4.

~~**AQ-10** The total number of firing hours of each gas turbine without abatement of nitrogen oxide emissions by the SCR system shall not exceed 300 hours during the commissioning period. Such operation of the gas turbine without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR system in place. Upon completion of these activities, Owner/operator shall provide written notice to the District and the unused balance of the 300 firing hours without abatement will expire.~~

~~**Verification:**~~

~~**Verification:** **Verification:** See Condition AQ-4.~~

~~**AQ-11** The total mass emissions of nitrogen oxides, carbon monoxide, volatile organic compounds, PM10, and sulfur dioxide that are emitted from each gas turbine during the commissioning period shall accrue towards the quarterly emission limits specified in Condition 28.~~

~~**Verification:**~~

~~**Verification:** **Verification:** See Condition AQ-4.~~

~~**AQ-12** At the end of the commissioning period, the owner/operator shall conduct a District and CEC approved source test to determine compliance with Condition 17. The written test results of the performance tests shall be provided to the District and the CEC CPM following the testing. The source test shall determine NOx, CO, and VOC emissions during start-up and shutdown of the gas turbines. The source test for each gas turbine shall include a minimum of three start-up and three shutdown periods. A complete test protocol shall be submitted to the District prior to the testing. The owner/operator shall also provide notification to the District prior to the actual date of testing so that a District observer may be present.~~

~~**Verification:**~~

~~**Verification:** **Verification:** A complete test protocol shall be submitted for approval to the District and the CEC CPM no later than thirty (30) days prior to testing, and notification to the District and the CEC CPM at least ten (10) days prior to the actual date of testing shall be provided so that District or Energy Commission observers may be present. Changes to the test date made subsequent to the initial ten day notification may be communicated by telephone or other acceptable means no less than forty-eight (48) hours prior to the new test date.~~

~~GAS TURBINE CONDITIONS:~~

Federally Enforceable Conditions

AQ-1~~3~~ The heat input rate to each gas turbine shall not exceed 1,870 MMBtu/hr. **[District Rule 207]**

Verification: ~~See AQ-38 and 39.~~ **The project owner shall maintain records according to AQ-38. The project owner shall submit reports verifying compliance according to AQ-48 .**

AQ-~~14~~2 The maximum daily combined emissions from the gas turbines, including start-ups and shutdowns and combustor tuning periods, shall not exceed the following limits **[District Rule 207]:**

Pollutant	**Lbs/Day**
Oxides of Nitrogen (NOx)	2,589.4
Carbon Monoxide (CO)	17,301.8
Particulate Matter <10 microns (PM10)	864.0
Volatile Organic Compounds (VOC)	620.0
Ammonia (NH~~3~~**3**)	1,224.0
Sulfur Dioxide (SO~~2~~**2**)	124.0

Verification: ~~See AQ-38 and 39.~~ **The project owner shall maintain records according to AQ-38 and AQ-39. The project owner shall submit reports verifying compliance according to AQ-48.**

AQ-~~15~~3 The pollutant mass emission rates in the exhaust discharged to the atmosphere from each gas turbine shall not exceed the following limits **[District Rule 207]**:

Pollutant	**Lbs/Hour**	**Lbs/Day**
Oxides of Nitrogen (NOx)	17.23	413.5
Carbon Monoxide (CO)	37.76	906.2
Particulate Matter <10 microns (PM10)	9.00	216.0
Volatile Organic Compounds (VOC)	4.79	115.0
Ammonia (NH~~3~~**3**)	12.75	306.0
Sulfur Dioxide (SO~~2~~**2**)	1.30	31.2

~~Protocol:~~ These limits shall not apply during start-up, which is not to exceed four (4) hours, during shutdown, which is not to exceed two (2) hours, or during steam turbine cold startup or combustor tuning, which are not to exceed six (6) hours. SCR catalytic controls and good engineering practices shall be used to the fullest extent practical during start-up~~,~~ **and** shutdown ~~and combustor tuning~~ to minimize pollutant emissions.

Steam turbine cold start-up periods are start-up periods that **last more than four (4) hours or exceed the start-up emissions limits in AQ-5, and** follow a shutdown of the steam turbine for at least 72 hours. Combustor tuning activities include all testing, adjustment, tuning and calibration activities **associated with combustor replacement or maintenance,** recommended by the gas turbine manufacturer to insure safe and reliable steady state operation of the gas turbines ~~following replacement of the combustor.~~ This includes, but is not limited to, adjusting the amount of fuel distributed between the combustion turbine's staged fuel systems to

simultaneously minimize NOx, CO**,** and VOC production while ensuring combustor stability. **Energy regulatory agency required performance testing includes but is not limited to load ramp rate performance certification, generating system stability testing, emergency response testing or emergency blackout recovery. Energy regulatory agencies include Federal, Regional, or State agencies.**

Verification: ~~See AQ-38 and 39.~~ **The project owner shall follow testing requirements and procedures according to AQ-28, maintain records according to AQ-38 and AQ-39, and submit reports verifying compliance according to AQ-48.**

AQ-~~16~~4 The pollutant concentrations discharged to the atmosphere from each ~~G~~**g**as ~~T~~**t**urbine shall not exceed the following limits, calculated at 15 percent O~~2~~**2** **[District Rule 207]** ~~on a one-hour rolling average unless otherwise noted~~:

Pollutant	**Concentration (ppm)**
Oxides of Nitrogen (as NO~~2~~**2**)	2.5 **(clock hour average)**
Carbon Monoxide (CO)	9.0 (rolling three-hour average)
Ammonia (NH~~3~~**3**)	5.0 (3-60 minute averages.)

~~Protocol:~~ These limits shall not apply during start-up, which is not to exceed four (4) hours, during shutdown, which is not to exceed two (2) hours, or during steam turbine cold start**-**up or combustor tuning **or energy regulatory agency required performance testing**, which are not to exceed six (6) hours. SCR catalytic controls and good engineering practices shall be used to the fullest extent practical during start-up, shutdown and combustor tuning to minimize pollutant emissions.

Verification: ~~See AQ-38 and 39.~~ **The project owner shall follow testing requirements and procedures according to AQ-28 and AQ-33, maintain records according to AQ-38 and AQ-39, and submit reports verifying compliance according to AQ-48.**

AQ-~~17~~5 The pollutant emission rates discharged to atmosphere from each gas turbine during a start-up, shutdown, or combustor tuning activities – shall not exceed the following limits. These limits apply to any start-up period, which shall not exceed four (4) hours, ~~and~~ to any shutdown, which shall not exceed two (2) hours, and to any steam turbine startup or combustor tuning, which ~~are~~ **shall** not ~~to~~ exceed six (6) hours. **[District Rule 207]**

Pollutant	**Lbs/Start -Up**	**Lbs/Cold Start-U~~u~~p or Combustor Tuning**	**Lbs/Shutdown**
Oxides of Nitrogen (as NO~~2~~**2**)	320.0	480.0	160.0

Carbon Monoxide (CO)	3,608.0	5,412.0	1,804.0
Volatile Organic Compounds (as CH4~~4~~)	64.0	214.0	32.0

Verification: ~~See AQ-38 and 39.~~ **The project owner shall maintain records according to AQ-38 and AQ-39. The project owner shall submit reports verifying compliance according to AQ-48.**

AQ-~~18~~6 ~~Compliance with~~ **Exceedance of** the hourly NOx emission limits specified in Conditions **AQ-3 and AQ-4** ~~15 and 16~~ **is allowed** ~~shall not be required~~ during short-term excursions ~~of~~ **which total** less than 10 hours per rolling 12-month period. **[District Rule 207]**

Short-term excursions are defined as 15-minute periods designated by the **project** owner~~/operator~~ that are a direct result of a ~~pre-mix~~ **combustor** mode switchover, not to exceed four consecutive 15-minute periods, when the 15-minute average NOx concentration exceeds 2.5 ppm corrected to 15% O2~~2~~

The maximum 1-hour average NOx concentration for periods that include short-term excursions shall not exceed 30 ppmvd corrected to 15% O2~~2~~. All emissions during short-term excursions shall be included in all calculations of daily, quarterly, and annual mass emissions required by this permit.

Verification: ~~See AQ-38 and 39.~~ **The project owner shall submit reports verifying compliance according to AQ-48.**

AQ-~~28~~7 Cumulative emissions, including emissions generated during Start-ups, Shutdowns, and Combustor Tuning Activities, from all power generation equipment **and the start-up package boiler-**at the Moss Landing Power Plant shall not exceed the following quarterly limits **[District Rule 207]**:

Pollutant	**Pounds of Emissions Per Calendar Quarter**			
	First	**Second**	**Third**	**Fourth**
NOx (as NO2~~2~~)	~~286,778~~ **169,840**	~~285,301~~ **169,840**	~~409,492~~ **169,840**	~~336,584~~ **169,840**
SOx	~~23,823~~ **10,920**	~~24,567~~ **10,920**	~~32,613~~ **10,920**	~~29,468~~ **10,920**
VOC	~~144,537~~ **44,720**	~~150,294~~ **44,720**	~~212,540~~ **44,720**	~~188,206~~ **44,720**
PM10	~~213,533~~ **75,600**	~~221,488~~ **75,600**	~~307,505~~ **75,600**	~~273,879~~ **75,600**
CO	~~2,929,068~~ **662,960**	~~3,059,753~~ **662,960**	~~4,472,774~~ **662,960**	~~3,920,385~~ **662,960**

Verification: ~~See AQ-38 and 39.~~ **The project owner shall maintain records according to the AQ-38 and AQ-39. The project owner shall submit reports verifying compliance according to AQ-48.**

AQ-48 Not more than one of the ~~G~~**g**as ~~T~~**t**urbine**s** shall be operated in support of a steam turbine cold startup or undergo combustor tuning at any one time. **[District Rule 207]**

Verification: ~~See Condition **AQ-49**~~. **The project owner shall record the start time, end time and duration of each steam turbine cold startup and each combustor tuning period according to AQ-40.**

AQ-49 The total number of hours during which each ~~G~~**g**as ~~T~~**t**urbine may be operated to support a steam turbine cold startup or may undergo combustor tuning shall not exceed 30 hour**s** per year (each Gas Turbine). **[District Rule 207]**

Verification: The **project** owner~~/operator~~ shall record the start time, end time and duration of each steam turbine cold startup and each combustor tuning period **according to AQ-40**. ~~On an annual basis, the owner/operator shall report the total number of hours during which each gas Turbine operated to a support a steam turbine cold startup or in combustor tuning mode during the year~~.

AQ-~~35~~10 ~~Starting January 1, 2000, the owner/operator~~ **The project owner** shall hold Sulfur Dioxide Allowances ~~in the compliance subaccounts~~ not less than the total annual emissions of sulfur dioxide for the previous calendar year~~.~~ **from Combined Cycle Units 1 (Gas Turbines 1A & 2A) and 2 (Gas Turbines 3A & 4A). [District Rule 219]**

Verification: ~~See AQ-38 and 39.~~ **The project owner shall provide the CPM with the sulfur dioxide allowance report demonstrating compliance on an annual basis.**

AQ-~~45~~11 No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 1 or equivalent 20% opacity. **[District Rule 400 Adopted 8/15/12]**

Verification: ~~See AQ-38 and 39.~~ **The project owner shall demonstrate compliance as outlined in AQ-29. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-12 **Notwithstanding the requirements of Condition AQ-11, no air contaminant shall be discharged into the atmosphere for a two (2) hour period from gas turbine exhaust during start-up for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 2 or equivalent to 40% opacity. [District Rule 400 Adopted 8/15/12]**

Verification: **The project owner shall demonstrate compliance as outlined in AQ-29. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-13 Particulate matter shall not exceed 0.15 grains per standard dry cubic foot in any exhaust stream, except stationary internal combustion engines. [District Rule 403]

Verification: The project owner shall demonstrate compliance as outlined in AQ-30. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-14 Sulfur compounds calculated as sulfur dioxide (SO_2) shall not exceed 0.2 percent by volume in any exhaust stream. [District Rule 404]

Verification: The project owner shall demonstrate compliance as outlined in AQ-31. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-15 Oxides of Nitrogen, calculated as nitrogen dioxide (NO_2), from the Emergency Engines shall not exceed 140 lbs/hr. [District Rule 404]

Verification: The project owner shall demonstrate compliance as outlined in AQ-32. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-16 The sulfur content on any gaseous fuel used at the facility shall not contain + compounds, calculated as hydrogen sulfide at standard conditions, in excess of 50 grains per 100 cubic feet. [District Rule 412]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-17 The sulfur content on any fuel oil used at the facility shall not exceed 0.5 percent by weight. [District Rule 412]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-18 No more than 40 pounds per day of Volatile Organic Compounds shall be discharged from any permit unit using or applying any solvent. [District Rule 416 Adopted 1/17/01]

Verification: The project owner shall demonstrate compliance as outlined in AQ-43. The project owner shall make the site and records available for

inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-19 The project owner shall operate the Gasoline Storage Tank with a permanent submerged fill pipe and a Phase I vapor recovery system which has been certified by the California Air Resources Board. [District Rule 418]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-20 The project owner shall operate a Phase II vapor recovery system on the dispenser served by the Gasoline Storage Tank which has been certified by the Air Resources Board. [District Rule 1002]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-21 The project owner shall limit emissions of volatile organic compounds by the use of architectural coatings which comply with the requirements of District Rule 426. [District Rule 426]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-22 The project owner shall limit emissions of volatile organic compounds during solvent cleaning and degreasing operations pursuant to the requirements of District Rule 433. [District Rule 433]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-23 If total combined usage of coatings applied to metal parts and products, as defined by District Rule 434, equals or exceeds 55 gallons per year, each coating used for metal parts and products must not exceed the following volatile organic compound content limits [District Rule 434]

VOC Content Limit, as Applied		
Coating Category	**grams/liter**	**lbs/gal**
Pretreatment Wash Primer	**780**	**6.5**
All Other Coatings	**420**	**3.5**

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-24 The project owner shall comply with the requirements of Sections 61.145 through 61.147 of the National Emission Standard for Asbestos for all demolition and renovation projects. [40 CFR Part 61, Subpart M]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-25 The project owner shall comply with the requirements of 40 CFR Part 68 - Risk Management Plans. The project owner's Risk Management Plan must be revised and updated as required by 40 CFR §68.190. The project owner shall certify compliance with these requirements as part of the annual compliance certification required by 40 CFR Part 70 and this permit. [40 CFR Part 68]

Verification: The project owner shall provide the CPM with the compliance certification on an annual basis.

AQ-26 The project owner shall comply with the requirements of 40 CFR Part 82 - Protection of Stratospheric Ozone. [40 CFR Part 82]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-27 The project owner shall operate and maintain the Diesel Fired Emergency Water Pumps in accordance with manufacturer specifications and shall implement the following engine management practice standards. [40 CFR Part 63, Subpart ZZZZ]

a. Change oil and filter every 500 hours of operation or annually, whichever comes first;
b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
c. Inspect all hoses and belts every 500 hours or operation or annually, whichever comes first, and replace as necessary.

The specified oil change-out frequency above may be extended provided an optional oil analysis program is instituted with prior District approval as follows.

i) The oil analysis program must be performed at the same frequency as the oil change-out timelines.

ii) **The oil analysis program must, at a minimum, analyze the Total Base Number, Viscosity, and Percent Water Content of the present engine oil. Should the Total Base Number remain 30 percent or more of the Total Base Number for new oil, viscosity change no more than 20 percent from the viscosity for new oil, and water content by volume be no more than 0.5 percent, the present engine oil does not need to be changed. If any of the limits are exceeded, the oil must be changed within two (2) working days of receiving the results of the analysis, or before recommencing operation if the engine is out of service.**

iii) **Records of the oil analysis results and oil changes shall be retained with the maintenance records as required by this license.**

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

~~**AQ-20** Following the commissioning of the gas turbines, a Relative Accuracy Test Audit (RATA) must be performed on the CEMS in accordance with 40 CFR Part 60 Appendix B Performance Specifications and a performance test shall be performed, and the written test results of the performance tests shall be provided to the District. A complete test protocol shall be submitted to the District prior to testing. Notification shall be given to the District prior to the actual date of the testing so that a District observer may be present. Changes to the test date made subsequent to the initial ten day notification may be communicated by telephone or other acceptable means no less than forty-eight (48) hours prior to the new test date.~~

~~The performance tests shall include those parameters specified in the approved test protocol, and shall at a minimum include the following:~~

~~a. Oxides of Nitrogen (as NO2): ppmv dry at 15% O2 and lbm/hr.~~
~~b. Carbon Monoxide: ppmv dry at 15% O2 and lbm/hr.~~
~~c. Volatile Organic Compounds (as CH4): ppmv dry at 15% O2 and lbm/hr.~~
~~d. Ammonia (NH3): ppmv dry at 15% O2 and lbm/hr and the following process parameters:~~
~~e. Natural gas consumption.~~
~~f. Turbine load in megawatts.~~
~~g. Stack gas flow rate (SDCFM) calculated according to procedures in EPA method 19, and % CO2.~~

~~**Verification:** See AQ-41.~~

BOILER 6-1 AND 7-1 CONDITIONS:

AQ-21 The heat input rate to each Boiler shall not exceed 7,048 MMBtu/hr.

Verification: See AQ-38 and 39.

AQ-22 Effective December 31, 2000, the pollutant mass emission rates in the exhaust discharged to the atmosphere from one Boiler shall not exceed the following limits:

Pollutant	**Lbs/Hour**	**Lbs/Day**
Oxides of Nitrogen (NOx)	85.6	2,054.4
Carbon Monoxide (CO)	862.7	20,704.8
Particulate Matter <10 microns (PM10)	52.5	1,260.0
Volatile Organic Compounds (VOC)	38.0	912.0
Ammonia (NH3)	31.6	758.4
Sulfur Dioxide (SO2)	4.9	117.6

Protocol: These limits shall not apply during start-up, which is not to exceed twelve (12) hours, or shutdown, which is not to exceed eight (8) hours. SCR catalytic controls and good engineering practices shall be used to the fullest extent practical during start-up to minimize pollutant emissions.

Verification: See AQ-38 and 39. Deleted

AQ-23 Effective December 31, 2000, the pollutant concentrations discharged to the atmosphere from one Boiler shall not exceed the following limits, based upon a one (1) hour rolling average (unless otherwise noted) calculated at 3 percent O2 on a dry basis:

Pollutant	**Concentration (ppm)**
Oxides of Nitrogen (as NO2)	10
Carbon Monoxide (CO)	400 (steady state compliance test based on a 60 consecutive minute avg.) 1000 (one hour clock-hour avg.)
Ammonia (NH3)	10 (3-60 minute avg.)

Protocol: These limits shall not apply during start-up, which is not to exceed twelve (12) hours, or shutdown, which is not to exceed eight (8) hours. SCR catalytic controls and good engineering practices shall be used to the fullest extent practical during start-up to minimize pollutant emissions.

Verification See AQ-38 and 39.

AQ-24 During the period of December 31, 2000 through December 31, 2001, when both Units 6-1 and 7-1 are available, the owner/operator shall preferentially operate the unit subject to the emission limits contained in Condition 20, such that its MW-hours equal or exceed the MW-hours of the unit not subject to

the requirements of Condition 22; provided that such preferential operation shall not impair the provision of reliable electric service.

Verification: See AQ-38 and 39.

AQ-25 Effective December 31, 2001, the pollutant mass emission rates in the exhaust discharged to the atmosphere from each Boiler shall not exceed the following limits:

Pollutant	**Lbs/Hour**	**Lbs/Day**
Oxides of Nitrogen (NOx)	85.6	2,054.4
Carbon Monoxide (CO)	862.7	20,704.8
Particulate Matter <10 microns (PM10)	52.5	1,260.0
Volatile Organic Compounds (VOC)	38.0	912.0
Ammonia (NH3)	31.6	758.4
Sulfur Dioxide (SO2)	4.9	117.6

Protocol: These limits shall not apply during start-up, which is not to exceed twelve (12) hours, or shutdown, which is not to exceed eight (8) hours. SCR catalytic controls and good engineering practices shall be used to the fullest extent practical during start-up to minimize pollutant emissions.

Verification: See AQ-38 and 39.

AQ-26 Effective December 31, 2001, the pollutant concentrations discharged to the atmosphere from each Boiler shall not exceed the following limits, based upon a one (1) hour rolling average (unless otherwise noted) calculated at 3 percent O2 on a dry basis:

Pollutant	**Concentration (ppm)**
Oxides of Nitrogen (as NO2)	10
Carbon Monoxide (CO)	400 (steady state compliance test based on a 60 consecutive minute avg.) 1000 (one hour clock hour avg.)
Ammonia (NH3)	10 (3-60 minute avg.)

Protocol: These limits shall not apply during start-up, which is not to exceed twelve (12) hours, or shutdown, which is not to exceed eight (8) hours. SCR catalytic controls and good engineering practices shall be used to the fullest extent practical during start-up to minimize pollutant emissions.

Verification: See AQ-38 and 39.

AQ-27 CEM Systems shall be installed and operated on each of the Boilers. These systems shall be designed to continuously record the measured gaseous concentrations, and calculate and continuously monitor and record the CO, CO2 or O2, and NOx concentrations corrected to three (3) percent oxygen (O2) on a dry basis

~~The equipment installed for the continuous monitoring of CO shall be maintained and operated in accordance with 40 CFR Part 60 Appendix F, and the equipment installed for the continuous monitoring of CO2 or O2 and NOx shall be maintained and operated in accordance with 40 CFR Parts 72 and 75. For periods of missing CO data, CO hourly values shall be substituted from valid hourly average data from the previous thirty (30) unit operating days, excluding periods of startup and shutdown. The CO data shall be substituted based on equivalent incremental load ranges.~~

~~**Verification:** See AQ-38 and 39.~~

Testing Requirements and Procedures

AQ-~~41~~28 Annual performance tests shall be conducted in accordance with the District test procedures ~~during the third quarter of each year~~, and the written results of the performance tests shall be provided to the District **within thirty (30) days** after testing. A testing protocol shall be submitted to the District **no later than (30) days** prior to the testing, and notification to the District at least ten (10) days prior to the actual date of testing shall be provided so that a District observer may be present. **Changes to the test date made subsequent to the initial ten-day notification may be communicated by telephone or other acceptable means no less than forty-eight (48) hours prior to the new test date. [District Rules 207 and 218]**

~~If the testing cannot be completed during the third quarter of the year due to the equipment being nonoperational or due to the power generation requirements of the grid being such that a unit would be unable to operate at greater than 50% load, the testing can be delayed, such that the testing be completed during the fourth quarter provided that the owner/operator notify the District that they will be unable to meet the third quarter testing requirement as soon as it becomes known, but in no event later than September 15.~~

The performance tests shall include those parameters specified in the approved test protocol, and shall at a minimum include the following:

a. **Oxides of Nitrogen (as NO_2): ppmv dry at 15 percent O_2 and lbm/hour;**
b. **Carbon monoxide: ppmv dry at 15 percent O_2 and lbm/hour;**
c. **Volatile Organic Compounds (as CH_4): ppmv dry at 15 percent O_2 and lbm/hour; and**
d. **Ammonia (NH_3): ppmv dry at 15 percent O_2 and lbm/hour;**

and the following parameters:

e. **Natural gas consumption;**
f. **Electricity generated during the test; and**

g. Stack gas flow rate (SCFM) calculated according to procedures in EPA Method 19.

Verification: ~~The written results of the performance tests shall be provided to the District within thirty (30) days after testing. A testing protocol shall be submitted to the District no later than thirty (30) days prior to the testing, and notification to the District at least ten (10) days prior to the actual date of testing shall be provided so that a District or CEC observer be present. Changes to the test date made subsequent to the initial ten day notification may be communicated by telephone or other acceptable means no less than forty-eight (48) hours prior to the new test date.~~ **The project owner shall submit the District-approved testing protocol and performance test results to the CPM no later than the second quarterly compliance report deadline following the testing. If the testing protocol and results are submitted to the CPM in a separate filing other than the quarterly compliance report, the quarterly compliance report shall include a statement indicating the date the required documents were previously submitted.**

AQ-29 No testing is specified for the generic (District Rule 400) opacity requirement from condition numbers AQ-11 or AQ-12. The equipment is assumed to be in compliance with the opacity requirement due to historical operations and local compliance inspections without opacity violations. If testing is conducted for condition numbers AQ-11 or AQ-12, the project owner shall conduct testing in accordance with the methodology contained in EPA Method 9 or equivalent method and the averaging/aggregating period contained in District Rule 400. [District Rule 218]

Verification: The project owner shall perform a Visible Emissions Evaluation to determine compliance as requested by the District or CPM. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-30 No testing is specified for the (District Rule 403) particulate matter emission standard from condition number AQ-13. The fuel burning equipment is assumed to be in compliance with the particulate matter emission standard based upon the engineering calculations contained in the evaluation report. If testing is conducted for condition number AQ-13, the project owner shall conduct testing in accordance with the methodology contained in EPA Method 5 or equivalent method. [District Rule 218]

Verification: The project owner shall perform particulate testing to determine compliance as requested by the District or CPM. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-31 **No testing is specified for the (District Rule 404) sulfur concentration limit in condition number AQ-14. The fuel burning equipment is assumed to be in compliance with this sulfur concentration limit based upon the engineering calculations contained in the evaluation report. If testing is conducted for condition number AQ-14, the project owner shall conduct testing in accordance with the methodology contained in EPA Method 6 or equivalent method [District Rule 218]**

Verification: **The project owner shall perform sulfur dioxide testing to determine compliance as requested by the District or CPM. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-32 **No testing is specified for the (District Rule 404) NOx (oxides of nitrogen) limit in condition number AQ-15. The fuel burning equipment is assumed to be in compliance with these NOx limits based upon the engineering calculations contained in the evaluation report. If testing is conducted for condition number AQ-15, the project owner shall conduct testing in accordance with the methodology contained in EPA Method 7E or equivalent method. [District Rule 218]**

Verification: **The project owner shall perform nitrogen dioxide testing to determine compliance as requested by the District or CPM. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-~~40~~33 The **project** owner~~/operator~~ shall cause ~~quarterly~~ testing to be performed to verify compliance with the Ammonia (NH_3~~3~~) slip limit **established in AQ-16 as follows:**.

a. Gas turbine testing shall be performed every EPA operating quarter, as defined in 40 CFR Part 72, or in the next EPA operating quarter if a gas turbine cannot be tested in an EPA operating quarter due to the unit being non-operational at the time of scheduled testing.

The project owner shall conduct this testing in accordance with the collection method specified in ~~BAAQMD~~ **Bay Area Air Quality Management** District Source Test Procedure ST-1B and the analysis specified in EPA method 350.3. **[District Rules 207, and 218]**

Verification: See ~~AQ-38 and 39.~~ **The project owner shall provide a record of compliance to the CPM in the quarterly compliance reports, no later than the second quarterly compliance report deadline following the testing.**

Monitoring and Record Keeping Requirements

AQ-~~19~~34 CEM Systems shall be installed and operated on ~~each of the gas turbines~~ **Combined Cycle Units 1 (Gas Turbines 1A and 2A) and 2 (Gas Turbines 3A and 4A)**. These systems shall be designed to continuously record the measured gaseous concentrations, and calculate and continuously monitor and record the CO, $CO_{~~2~~}$ or $O_{~~2~~}$, and NOx concentrations corrected to fifteen (15) percent oxygen ($O_{~~2~~}$) on a dry basis**. [District Rules 207, 213 and 219, 40 CFR Part 64]**

~~The equipment installed for the continuous monitoring of CO shall be maintained and operated in accordance with 40 CFR Part 60 Appendix F, and the equipment installed for the continuous monitoring of CO2 or O2 and NOx shall be maintained and operated in accordance with 40 CFR Parts 72 and 75. For periods of missing CO data, CO hourly values shall be substituted from valid hourly average data from the previous thirty (30) unit operating days, excluding periods of startup, shutdown, and combustor tuning. The CO data shall be substituted based on equivalent incremental load ranges.~~

Verification: ~~See AQ-38 and 39.~~ **The project owner shall submit reports according to AQ-48. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-~~36~~35 The equipment installed for the continuous monitoring of $CO_{~~2~~}$ or $O_{~~2~~}$ and NOx shall be maintained and operated in accordance with 40 CFR Parts 72 and 75. **[District Rule 207]**

Verification: ~~See AQ-38 and 39.~~ **The project owner shall submit reports according to AQ-48. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-36 **The equipment installed for the continuous monitoring of CO on Combined Cycle Units 1 (Gas Turbines 1A and 2A) and 2 (Gas Turbines 3A and 4A) shall be maintained and operated in accordance with 40 CFR Part 60 Appendix F and with the ability to calculate CO emission concentrations corrected to fifteen (15) percent oxygen for the Turbines on a dry basis. [District Rule 207]**

Verification: **The project owner shall submit reports according to AQ-48. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-37 A written Quality Assurance program **for Combined Cycle Units 1 (Gas Turbines 1A and 2A) and 2 (Gas Turbines 3A and 4A) CEMs** must be established in accordance with 40 CFR Part 75, Appendix B **for NOx** and 40 CFR Part 60, Appendix F **for CO** which includes, but is not limited to:

procedures for daily calibration testing, quarterly linearity and leak testing, record keeping and reporting implementation, and relative accuracy testing. **[District Rule 219]**

Verification: ~~See AQ-38 and 39.~~ **The project owner shall comply with the written Quality Assurance program. The project owner shall submit reports according to AQ-48. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-3~~0~~8 ~~Duke Energy Moss Landing LLC~~ **The project owner** shall demonstrate compliance by using properly operated and maintained continuous emission monitors (during all hours of operation including equipment Start-up and Shutdown periods and ~~c~~**C**ombustor Tuning Activities, except for periods of CEM maintenance performed in accordance with District requirements) for all of the following parameters **[District Rule 207]**:

a. Firing hours and Fuel Flow Rates.

b. Oxygen ($O2_{2}$) Concentrations, Nitrogen Oxide (NOx) Concentrations, and Carbon Monoxide (CO) Concentrations.

c. Ammonia Injection Rates.

~~Duke Energy Moss Landing LLC~~ **The project owner** shall record all of the above parameters every 15 minutes (excluding normal calibration periods) and shall summarize all of the above parameters for each clock hour. For each calendar day, ~~Duke Energy Moss Landing LLC~~ **the project owner** shall calculate and record the total Firing Hours, the average hourly Fuel Flow Rates, and pollutant emission concentrations.

~~Duke Energy Moss Landing LLC~~ **The project owner** shall use the parameters measured above and District-approved calculation methods to calculate the following parameters:

d. Heat Input Rate.

e. Corrected NOx concentrations, NOx mass emissions (as $NO2_{2}$), corrected CO concentrations, and CO mass emissions.

For each source, ~~Duke Energy Moss Landing LLC~~ **the project owner** shall record the parameters specified in d. and e. of this Condition every 15 minutes (excluding normal calibration periods). As specified below, the **project** owner~~/operator~~ shall calculate and record the following data:

f. Total Heat Input Rate for every clock hour.

g. The NOx mass emissions (as $NO2_{2}$), and corrected average NOx emission concentrations for every clock hour.

h. The CO mass emissions, and corrected average CO emission concentrations for every ~~rolling three-hour period~~ **clock hour**.

i. On an hourly basis, the cumulative total NOx mass emission (as NO~~2~~**2**) and the cumulative total CO mass emissions.

j. For each calendar day, the cumulative total NOx mass emission (as NO~~2~~**2**) and the cumulative total CO mass emissions.

k. For each calendar quarter, the cumulative total NOx mass emission (as NO~~2~~**2**) and the cumulative total CO mass emissions.

l. For each calendar year, the cumulative total NOx mass emission (as NO~~2~~**2**) and the cumulative total CO mass emissions.

Verification: ~~See AQ-38 and 39.~~ **The project owner shall submit reports according to AQ-48. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-3~~1~~9 ~~Duke Energy Moss Landing LLC~~ **The project owner** shall calculate and record on a daily basis, the Volatile Organic Compound (VOC) mass emissions, Fine Particulate Matter (PM10) mass emissions, Sulfur Dioxide (SO~~2~~**2**) mass emissions, and Ammonia (NH~~3~~**3**) mass emissions from each **power generating** source. The **project** owner~~/operator~~ shall use the actual heat input rates, actual Start-up times, actual Shutdown times, and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows **[District Rule 207]**:

a. For each calendar day, VOC, PM10, SO~~2~~**2**, and NH~~3~~**3** mass emissions shall be summarized for each source.

b. On a daily basis, the cumulative total VOC, PM10, SO~~2~~**2** and NH~~3~~**3** mass emissions shall be summarized for each calendar quarter and for the calendar year.

Verification: ~~See AQ-38 and 39.~~ **The project owner shall submit reports according to AQ-48. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-40 To demonstrate compliance with AQ-9, the project owner shall record the start time, end time and duration of each steam turbine cold start-up and each combustor tuning period. This information shall be compiled and supplied to the District in the semiannual monitoring report as specified in AQ-52. [District Rule 207]

Verification: The project owner shall submit the semiannual monitoring reports to the CPM according to AQ-52.

AQ-~~32~~41 Instrumentation must be operated to measure the SCR catalyst inlet temperature and pressure differential across the SCR catalyst. **[District Rule 207]**

Verification: ~~See AQ-38 and 39.~~ **The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-~~3~~42 The project owner~~/operator~~ shall monitor and report SO_2 emissions from Combined Cyle Units 1 (Gas Turbines 1A and 2A) and 2 (Gas Turbines 3A and 4A) in accordance with 40 CFR Parts 72 and 75. [District Rule 219]

Verification: ~~See AQ-38 and 39.~~ **The project owner shall submit reports according to AQ-48. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-43 The project owner shall maintain daily records to document compliance with AQ-18 [District Rule 416 Adopted 4/20/94]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-44 The project owner shall maintain records showing the quantity of all gasoline delivered to the gasoline storage tank. [District Rule 418]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-45 As applicable, the project owner shall maintain the following general records of required monitoring information [District Rule 218]:

- **a) the date and time of sampling or measurements;**
- **b) the date(s) analyses were performed;**
- **c) the company or entity that performed the analyses;**
- **d) the analytical techniques or methods used;**
- **e) the results of such analyses;**
- **f) the operating conditions existing at the time of sampling or measurement; and**
- **g) the records of quality assurance for continuous monitoring systems (including, but not limited to quality control activities, audits, and calibration drift checks) and source testing methods.**

Verification: The project owner shall comply with all monitoring, record keeping requirements, and reporting requirements. The project owner shall

make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-46 The project owner shall maintain records on the occurrence and duration of any start-up, shutdown, or malfunction in the operation of any CEM. [District Rule 213]

Verification: The project owner shall comply with all monitoring, record keeping requirements, and reporting requirements. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-~~38~~47 ~~Pursuant to Title IV, Part 75, Section 75.50, and Rule 431, Section 4.3, permanent.~~ **The project owner shall retain** records **of all required monitoring data and support information** ~~shall be maintained~~ for a period of **at least** five years ~~after creation~~ **from the date of the monitoring, sample collection, measurement, or report, and shall retain all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit**. ~~The records at a minimum shall include all items specified in Section 75.50 and in Rule 431.~~ **[District Rule 218]**

Verification: The records shall be maintained for a period of five years after creation and be available for inspection by representatives of the District, ~~Air Resources Board, the CEC CPM and other appropriate agencies~~ **ARB, U.S. EPA, and CEC upon request.**

Reporting Requirements

AQ-~~33~~48 The project owner~~/operator~~ shall submit **monthly reports on the continuous emissions monitoring systems to the District in accordance to the Monitoring and Reporting Protocol for Monthly Reporting (Reporting Protocol). The written Monthly Report shall be submitted to the District within 30 days from the end of the month and these shall include: [District Rule 207, 213, & 218]** ~~to the Air Pollution Control District a written report each month which shall include:~~

a. the time intervals, date, and magnitude of excess emissions, **nature and cause of the excess (if known), corrective actions and preventative measures adopted**;
b. **the averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant in question;** ~~nature and cause of the excess emission, and corrective actions taken~~;

c. time and date of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of system repairs and adjustments; and
d. a negative declaration **specifying** when no excess emissions occurred; and
e a summary of actual monthly emissions, summarized and totaled on a quarterly basis, from the CEM for all subject equipment which operated during the month and/or quarter.

Verification: ~~See AQ-38 and 39.~~ **The project owner shall submit the monthly reports to the CPM at either the time of submittal to the District or in the following quarterly report required by AQ-SC7, or per a different time frame agreed on by the project owner and CPM.**

AQ-49~~2~~ The **project** owner~~/operator~~ shall report all breakdowns which result in the inability to comply with any emission standard or requirement contained on this permit to the Air Pollution Control Officer (APCO) within 1 hour of the occurrence, this one hour period may be extended up to six hours for good cause by the APCO. The APCO may elect to take no enforcement action if the **project** owner~~/operator~~ demonstrates to the APCO s satisfaction that a breakdown condition exists.
The estimated time for repair of the breakdown shall be supplied to the APCO within 24 hours of the occurrence and a written report shall be supplied to the APCO with**in** 5 **working** days after the occurrence has been corrected. This report shall include at a minimum:
a. a statement that the condition or failure has been corrected and the date of correction; ~~and~~
b. a description of the reasons for the occurrence; ~~and~~
c. a description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future; and
d. an estimate of the emissions caused by the condition or failure.

Verification: ~~See AQ-38 and 39.~~ **The project owner shall summarize breakdown events and submit copies of associated reports in the following quarterly operating report required by AQ-SC7.**

AQ-50 If combined annual emissions from the entire facility are greater than 25 tons of either NO_X or VOC, the project owner shall submit an Emission Statement for each Permit to Operate and Authority to Construct in accordance with the mandatory provisions of Section 182(a)(3)(B)(ii) of the federal Clean Air Act. [District Rule 300, Section 4.4]

Verification: The project owner shall submit an annual statement of compliance in the Annual Compliance Report required by AQ-SC8.

AQ-~~39~~51 ~~Pursuant to Title IV, Part 75, Section 75.64, quarterly reports shall be submitted to the District within 30 days following the end of the calendar quarter.~~ **The project owner shall submit quarterly Electronic Data Reports (EDR) to the EPA for Combined Cycle Units 1 (Gas Turbines 1A and 2A) and 2 (Gas Turbines 3A and 4A).** The**se** reports must be **submitted within 30 days following the end of each calendar quarter and shall be** in electronic format and at a minimum must include all **information** listed in Section 75.64. **[40 CFR Part 75]**

Verification: ~~Copies of the quarterly reports shall be submitted to the District and the CEC CPM within 30 days following the end of the calendar quarter. At a minimum, the quarterly report must include all items listed in Section 75.64~~. **The project owner shall submit copies of the quarterly EDR to the CPM in the quarterly reports as required by AQ-SC7.**

AQ-52 The project owner shall submit semiannual monitoring reports to the District, in a District approved format, no later than August 15 for the period of January 1 through June 30 and no later than February 15 for the period of July 1 through December 31. [District Rule 218]
These monitoring reports shall include at a minimum:

a. the time intervals, date~~,~~ and magnitude of excess emissions, nature and cause of the excess (if known), corrective actions and preventative measures adopted;
b. the averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant in question;
c. all information pertaining to any monitoring as required by this permit; and
d. a negative declaration specifying when no excess emissions occurred.

Verification: The project owner shall submit the semiannual monitoring reports to the CPM or summary in the following quarterly ~~or annual compliance~~ report required by AQ-SC7 ~~and AQ-SC8~~.

AQ-53 The project owner shall submit an annual compliance certification report to the District and EPA, in a District approved format, no later than February 15 for the period of January 1 through December 31 of the preceding year. [District Rule 218]
This report shall include a written statement from the responsible official which certifies the truth, accuracy, and completeness of the report and shall include at a minimum:

a. identification of each term or condition of the permit that is the basis of the certification;
b. the compliance status;
c. whether compliance was continuous or intermittent; and
d. the method(s) used for determining the compliance status of the source, currently and over the reporting period.

Verification: The project owner shall submit the semiannual monitoring reports to the CPM or summary in the following quarterly or annual compliance report required by AQ-SC7 and AQ-SC8.

~~GENERAL CONDITIONS:~~ **General Conditions**

AQ-54 The project owner shall comply with all conditions of the federal operating permit. Any noncompliance with a permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [District Rule 218]

Verification: The project owner shall submit an annual compliance certification as required in AQ-53. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-55 In an enforcement action, the fact that the project owner would have to halt or reduce the permitted activity in order to maintain compliance with the conditions of any permit is not a defense. [District Rule 218]

Verification: No verification needed.

AQ-56 The federal operating permit may be modified, revoked, reopened and reissued, or terminated for cause as determined by the District. The filing of a request by the project owner for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 218]

Verification: No verification needed.

AQ-57 The federal operating permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. [District Rule 218] [District Rule 218]

Verification: No verification needed.

AQ-58 The project owner shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the project owner shall also furnish to the District copies of records required to be retained by the federal operating permit. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-59 For applicable requirements that will become effective during the permit term, the project owner shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement. [District Rule 218]

Verification: The project owner shall include a statement of compliance in the annual report.

AQ-60 Any document submitted to the District pursuant to the federal operating permit shall contain certification by the responsible official of truth, accuracy and completeness. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The project owner shall promptly, upon discovery, report to the District a material error or omission in these records, reports, plans, or other documents. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-61 The project owner shall report any violation of any requirement contained in the Title V permit to the District within 96 hours after such occurrence. The violation report shall include the time intervals, date and magnitude of excess emissions; nature and cause of the excess (if known), corrective actions and preventive measures adopted. [District Rule 218]

Verification: The project owner shall include the notifications and any associated reports in the following quarterly compliance reports required by AQ-SC7.

AQ-62 Upon any administrative or judicial challenge, all the emission limits, specific and general conditions, monitoring, record keeping, and reporting requirements of the Title V permit, except those being challenged, remain valid and must be complied with. [District Rule 218]

Verification: No verification needed.

AQ-63 For this federal operating permit to remain valid through the permit term of five years from the date of issuance, the project owner shall pay an annual emission fee based upon the requirements of District Rule 308. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-64 The project owner shall have available at the facility at all times a copy of this federal operating permit. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-65 For protection from enforcement action based upon an emergency, as defined in District Rule 218, the responsible official for the project owner shall submit to the District relevant evidence which demonstrates [District Rule 218]:

a) an emergency occurred; and

b) that the project owner can identify the cause(s) of the emergency; and

c) that the facility was being properly operated at the time of the emergency; and

d) that all steps were taken to minimize the emissions resulting from the emergency; and

e) within two working days of the emergency event, the project owner shall provide the District with a description of the emergency and any mitigating or corrective actions taken. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-47~~66~~ ~~Any representative of the Monterey Bay Unified Air Pollution Control District authorized by the Air Pollution Control Officer shall be permitted, pursuant to the authority contained in Section 41510 of the California Health and Safety~~

~~Code~~ **Upon presentation of credentials, the project owner shall allow the District, the ARB, the EPA, or an authorized representative, to perform the following [District Rule 218]:**

a. ~~to~~ enter upon the premises where the **federal operating permit** source is located or in which any records are required to be kept under the terms and conditions of the ~~Authority to Construct~~ **federal operating permit**;
b. to have access to and copy any records required to be kept under the terms and conditions of ~~this Authority to Construct~~ **the federal operating permit**;
c. to inspect any equipment, operation, or process described or required in ~~this Authority to Construct~~ **the federal operating permit**; and,
d. to sample emissions from the source.

Verification: Representatives of the District, ~~CEC~~ CPM, the Air Resources Board, or other appropriate agencies shall have the authority to enter the premises to witness source tests, review and copy records, inspect equipment and sample emissions for the sources.

AQ-67 The renewal application for the Title V permit shall be submitted to the District at least 6 months but no greater than 18 months prior to permits expiration. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-~~29~~68 ~~Units 6-1 and 7-1~~ **The gas turbines** shall be abated by a properly operated and maintained ~~S~~**s**elective ~~C~~**c**atalytic ~~R~~**r**eduction ~~S~~**s**ystem. **[District Rule 207]**

Verification: ~~See AQ-38 and 39.~~**The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.**

AQ-~~44~~69 No emissions shall constitute a public nuisance.

Verification: ~~See AQ-38 and 39.~~ **No verification needed. The project owner shall comply with the Reporting of Complaints, Notices, and Citations requirements outlined in the Compliance Monitoring Plan.**

AQ-~~46~~70 The **project** owner~~/operator~~ shall fund the operation of the Stationary Source percentage of the District's Salinas air monitoring station.

Verification: ~~See AQ-38 and 39~~. **The project owner shall submit a statement of compliance in the Annual Compliance Report required by AQ-SC8.**

~~CONDITIONS OF CERTIFICATION — CONSTRUCTION~~

Referenced Tables

TABLE 1
BEST AVAILABLE FUGITIVE DUST CONTROL MEASURES

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS
Earth-moving (except construction cutting and filling areas, and mining operations)	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the CEC CPM. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations each subsequent four-hour period of active operations; OR
	For any earth-moving which is more than 100 feet from all property lines, conduct watering as necessary to prevent visible dust emissions from exceeding 100 feet in length in any direction.
Earth-moving: Construction fill areas:	Maintain soil moisture content at a minimum of 12 percent, as determined by ASTM method D-2216, or other equivalent method approved by the CEC CPM. For areas which have an optimum moisture content for compaction of less than 12 percent, as determined by ASTM Method 1557 or other equivalent method approved by the CEC CPM, complete the compaction process as expeditiously as possible after achieving at least 70 percent of the optimum soil moisture content. Two soil moisture evaluations must be conducted during the first three hours of active operations during a calendar day, and two such evaluations during each subsequent four-hour period of active operations.
Earth-moving: Construction cut areas and mining operations:	Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
Disturbed surface areas (except completed grading areas)	Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 percent of the unstabilized area.
Disturbed surface areas: Completed grading areas	Apply chemical stabilizers within five working days of grading completion; OR
	Take actions (3a) or (3c) specified for inactive disturbed surface areas.
Inactive disturbed surface areas	Apply water to at least 80 percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR
	Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR

FUGITIVE DUST SOURCE CATEGORY	CONTROL ACTIONS
	Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR
	Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.
Unpaved Roads	Water all roads used for any vehicular traffic at least once per every two hours of active operations; OR
	Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR
	Apply a chemical stabilizer to all unpaved road surfaces in sufficient quantity and frequency to maintain a stabilized surface.
Open storage piles	Apply chemical stabilizers; OR
	Apply water to at least 80 percent of the surface area of all open storage piles on a daily basis when there is evidence of wind driven fugitive dust; OR
	Install temporary coverings; OR
	Install a three-sided enclosure with walls with no more than 50 percent porosity which extend, at a minimum, to the top of the pile.
ALL CATEGORIES	Any other control measures approved by the CEC CPM as equivalent to the methods specified in Table 1 may be used.

TABLE 2
TRACK-OUT CONTROL OPTIONS

(1)	Pave or apply chemical stabilization at sufficient concentration and frequency to maintain a stabilized surface starting from the point of intersection with the public paved surface, and extending for a centerline distance of at least 100 feet and a width of at least 20 feet.
(2)	Pave from the point of intersection with the public paved road surface, and extending for a centerline distance of at least 25 feet and a width of at least 20 feet, and install a track-out control device immediately adjacent to the paved surface such that exiting vehicles do not travel on any unpaved road surface after passing through the track-out control device.
(3)	Any other control measures approved by the CEC CPM as equivalent to the methods specified in Table 2 may be used.

TABLE 3
CONTROL MEASURES FOR WIND CONDITIONS EXCEEDING 25 MPH

FUGITIVE DUST SOURCE CATEGORY	CONTROL MEASURES
Earth-moving	Cease all active operations; OR
	Apply water to soil not more than 15 minutes prior to moving such soil.
Disturbed surface areas	On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR
	Apply chemical stabilizers prior to wind event; OR
	Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; OR
	Take the actions specified in Table 1, Item (3c); OR
	Utilize any combination of control actions (1B), (2B), and (3B) such that, in total, these actions apply to all disturbed surface areas.
Unpaved roads	Apply chemical stabilizers prior to wind event; OR
	Apply water twice [once] per hour during active operation; OR
	Stop all vehicular traffic.
Open storage piles	Apply water twice [once] per hour; OR
	Install temporary coverings.
Paved road track-out	Cover all haul vehicles; OR
	Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
All Categories	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.

REFERENCES

ARB 2020a - California Air Resources Board. California Ambient Air Quality Data Standards available on ARB website. http://www.arb.ca.gov/research/aaqs/aaqs.htm Accessed January 2018 and March 2020

ARB 2020b - California Air Resources Board. Air Designation Maps available on ARB website. http://www.arb.ca.gov/desig/adm/adm.htm Accessed January 2018 and March 2020.

ARB 2020c - California Air Resources Board. Proposed Amendments to the Areas Designations For State Ambient Air Quality Standards on ARB website. https://www.arb.ca.gov/regact/2018/area18/area18.htm https://ww2.arb.ca.gov/rulemaking/2019/2019-state-area-designations-regulation

Accessed January 2018 and March 2020.

CEC 2021 – California Energy Commission – Moss Landing Power Plant - Data Requests – Project Owner Responses for 2017 AQ Petition to Amend (TN 236967) March 3, 2021.

CEC 2004 – California Energy Commission – Commission Order Approving a Petition to Amend Startup and Tuning Emissions (TN 30796) January 29, 2004

CEC 2003b – California Energy Commission – Staff Analysis of Proposed Project Modification: Request to Modify Air Emissions During Startup and tuning (TN 30657) December 23, 2003

CEC 2003 – California Energy Commission – Commission Order Approving a Petition to Amend Shutdown Process Emissions (TN 28571) April 24, 2003

CEC 2003a – California Energy Commission – Staff Analysis of Proposed Project Modification: Request to Modify Air Emissions During Shutdown (TN 28181) April 5, 2003

CEC 2000 – California Energy Commission – Commission Decision & Order on the Moss Landing Power Project (Publication #800-00-008/TN 16559) November 3, 2000

CEC 2000a – California Energy Commission – PART 2 of Final Staff Analysis (TN 14805) June 1, 2000

DML 2017 – Dynegy Moss Landing – Petition to Amend: Moss Landing Power Plant Project (TN 221193) September 18, 2017

MBARD 2019 – Monterey Bay Unified Air Resources District – Title V Operating Permit TV-0000014B (TN 236937), February 21, 2019.

MBUAPCD 2000 – Monterey Bay Unified Air Quality Pollution Control District – Final Determination of Compliance (TN 145666) May 17, 2000

U.S. EPA 2000 – United States Environmental Protection Agency – EPA Comments on Duke Energy Moss Landing LLC Preliminary Determination of Compliance (TN 13913) Dated February 14, 2000

U.S. EPA 2020a – United States Environmental Protection Agency. The Green Book Nonattainment Areas for Criteria Pollutants website. https://www.epa.gov/green-book Accessed January 2018 and March 2020.

U.S. EPA 2020b - United States Environmental Protection Agency. National Ambient Air Quality Data Standards available on U.S. EPA website. https://www.epa.gov/criteria-air-pollutants/naaqs-table Accessed January 2018 and March 2020.

ATTACHMENT A

CONDITIONS OF CERTIFICATION (CLEAN VERSION)

STAFF CONDITIONS

The referenced tables are included at the end of the Air Quality Conditions. For purposes of these staff conditions, the following definitions apply:

(1) **ACTIVE OPERATIONS** shall mean any activity capable of generating fugitive dust, including, but not limited to, earth-moving activities, construction/demolition activities, or heavy- and light-duty vehicular movement.

(2) **CHEMICAL STABILIZERS** mean any non-toxic chemical dust suppressant which must not be used if prohibited for use by the Regional Water Quality Control Boards, the California Air Resources Board, the U.S. Environmental Protection Agency (U.S. EPA), or any applicable law, rule or regulation; and should meet any specifications, criteria, or tests required by any federal, state, or local water agency. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface.

(3) **CONSTRUCTION/DEMOLITION ACTIVITIES** are any on-site mechanical activities preparatory to or related to the building, alteration, rehabilitation, demolition or improvement of property, including, but not limited to the following activities; grading, excavation, loading, crushing, cutting, planing, shaping or ground breaking.

(4) **DISTURBED SURFACE AREA** means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust.

(5) **DUST SUPPRESSANTS** are water, hygroscopic materials, or non-toxic chemical stabilizers used as a treatment material to reduce fugitive dust emissions.

(6) **EARTH-MOVING ACTIVITIES** shall include, but not be limited to, grading, earth cutting and filling operations, loading or unloading of dirt or bulk materials, adding to or removing from open storage piles of bulk materials, landfill operations, or soil mulching.

(7) **FUGITIVE DUST** means any solid particulate matter that becomes airborne, other than that emitted from an exhaust stack, directly or indirectly as a result of the activities of man.

(8) **INACTIVE DISTURBED SURFACE AREA** means any disturbed surface area upon which active operations have not occurred or are not expected to occur for a period of ten consecutive days.

(9) **STABILIZED SURFACE** means:

C. any disturbed surface area or open storage pile which is resistant to wind-driven fugitive dust;

D. any unpaved road surface in which any fugitive dust plume emanating from vehicular traffic does not exceed 20 percent opacity.

(10) **VISIBLE ROADWAY DUST** means any sand, soil, dirt, or other solid particulate matter which is visible upon paved road surfaces and which can be removed by a vacuum sweeper or a broom sweeper under normal operating conditions.

AQ-SC1 The project owner shall implement a CEC Compliance Project Manager (CPM) approved fugitive Dust Control Plan.

Protocol: The plan shall include the following:

5. A description of each of the active operation(s) which may result in the generation of fugitive dust;
6. An identification of all sources of fugitive dust (e.g., earth-moving, storage piles, vehicular traffic, etc.
7. A description of the control measures to be applied to each of the sources of dust emissions identified above (including those required in **AQ-SC2** below). The description must be sufficiently detailed to demonstrate that the applicable best available control measure(s) will be utilized and/or installed during all periods of active operations;
8. In the event that there are special technical (e.g., non-economic) circumstances, including safety, which prevent the use of at least one of the required control measures for any of the sources identified, a justification statement must be provided to explain the reason(s) why the required control measures cannot be implemented.

Verification: Not later than sixty (60) days prior to the start of rough grading, the project owner shall submit the plan to the CPM for review and approval. The project owner shall maintain daily records to document the specific actions taken pursuant to the plan. A summary of the monthly activities shall be submitted to the CPM via the Monthly Compliance Report.

AQ-SC2 During the construction phase of the project, the project owner shall:

1. Prevent or remove within one hour the track-out of bulk material onto public paved roadways as a result of their operations, or take at least one of the actions listed in Table 2 (attached) to prevent the track-out of bulk material onto public paved roadways as a result of their operations and remove such material at anytime track-out extends for a cumulative distance of greater than 50 feet on to any paved public road during active operations;
2. Install and use a track-out control device to prevent the track-out of bulk material from areas containing soils requiring corrective to other areas within the project construction site and laydown area;
3. Minimize fugitive particulate emissions from vehicular traffic on paved roads and paved parking lots on the construction site by vacuum mechanical sweeping or water flushing of the road surface to remove

buildup of loose material. The project owner shall inspect on a daily 116 basis the conditions of the paved roads and parking lots to determine the need for mechanical sweeping or water flushing.

Verification: The project owner shall maintain a daily log during the construction phase of the project indicating: 1) the manner in which compliance with this condition is achieved and 2) the date and time when the inspection of paved roads and parking lots occurs and the date and time(s) when the cleaning operation occurs. The logs shall be made available to the CPM upon request.

AQ-SC3 At any time when fugitive dust from MLPP project construction is visible in the atmosphere beyond the property line, the project owner will identify the source of the fugitive dust and implement one or more of the appropriate control measures specified in Table 3 (attached)

Verification: The project owner will maintain a daily log recording the dates and times that measures in Table 3 (attached) have been implemented and make them available to the CPM upon request.

AQ-SC4 The project owner shall implement an approved Construction Equipment Plan. The Plan shall identify how the project owner will ensure that all heavy equipment, that includes, but is not limited to, bulldozers, backhoes, compactors, loaders, motor graders and trenchers, and cranes, dump trucks and other heavy duty construction related trucks, used on-site by construction contractors and subcontractors:

a. are properly maintained;

b. limit idling times; and

c. meet federal emission standards for construction equipment.

Verification: Not later than thirty (30) days prior to the commencement of construction, the project owner shall submit the plan to the CPM for review and approval. The project owner shall maintain records to document the specific actions taken pursuant to the plan.

A summary of the monthly activities shall be submitted to the CPM via the Monthly Compliance Report.

AQ-SC5 The project owner shall ensure that all heavy earthmoving equipment including, but not limited to, bulldozers, backhoes, compactors, loaders, motor graders and trenchers, and cranes, dump trucks and other heavy duty construction-related trucks, have been properly maintained and the engines tuned to the engine manufacturer s specifications. The project owner shall place into the account of the Monterey Bay Unified Air Pollution Control District a.k.a. Monterey Bay Air Resources District (District) Carl Moyer Program, or into a similar District or State emission reduction program, $100,000 to cover the cost of permanent diesel retrofit or replacement that provides emission

reductions at or near Moss Landing. It is the intention of this condition to link as closely as possible, in both time and location, the use of the deposited funds with heavy equipment construction activities at the project.

Verification: The project owner shall submit to the CPM, via the Monthly Compliance Report, documentation which demonstrates that the contractor s heavy earthmoving equipment is properly maintained, and the engines are tuned to the manufacturer s specifications.

The project owner shall maintain all records on the site for six months following the start of commercial operation. The project owner shall request that funds deposited with the District be ear marked for the Moss Landing area. The project owner shall make the deposit within 30 days of receiving its final permit authorizing project construction. The project owner shall provide evidence to the CPM of the timely deposit within 15 days of making the deposit.

AQ-SC6 The project owner shall provide the CPM copies of any District or other agency-issued project air permit for the facility. The project owner shall submit to the CPM any request or application for a new project air permit or project air permit modification for review and approval.

Verification: The project owner shall submit any request or application for a new project air permit or project air permit modification to the CPM at the time of its submittal to the permitting agency. The project owner shall provide the CPM a copy of any issued air permit, including modified air permits, within 30 days of finalization.

AQ-SC7 The project owner shall provide copies or summaries as indicated, of the monthly, quarterly, semi-annual, and annual reports submitted to the District, U.S. EPA, or ARB to the CPM in quarterly reports. The periodic quarterly compliance reports shall include a summary of any breakdowns relating to the project and any associated breakdown report.

Verification: The project owner shall provide the quarterly reports to the CPM within 45 days of the end of the quarter or another timeframe agreed upon between the CPM and project owner.

AQ-SC8 The project owner shall provide the CPM with an Annual Compliance Report demonstrating compliance with all the conditions of certification as required in the Compliance Monitoring Plan Including General Conditions and Closure Plan for the facility.

Verification: The project owner shall provide the Annual Compliance Report to the CPM on a date approved by the CPM.

AQ-SC9 Any change to the CEMS monitoring protocol shall be submitted to the CPM for review.

Verification: The project owner shall provide any changes to the monitoring protocol to the CPM within 30 days.

AQ-SC10 The **project** owner shall **maintain** adequate stack sampling ports and platforms to enable the performance of source testing.

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

DISTRICT PERMITTED EQUIPMENT AND CONDITIONS

Equipment Descriptions

Two 530 MW units – Combined-Cycle Units 1 & 2 each consisting of:

Two Gas Turbine Generators, General Electric Frame 7, Model PG7241, Each Rated At 1,870 MMBtu/Hr Maximum Heat Input And 180 MW Nominal Electrical Output, With Dry Low-NOx Combustor.

Water Tube Type Heat Recovery Steam Generators (HRSG), Nominal Ratings: High Pressure Steam Capacity: 409,900 Lbs/Hr @ 1,903 psia And 1,047˚F, Intermediate Pressure Steam Capacity: 484,500 Lbs/Hr @ 358 psia And 1,022˚F, Low Pressure Steam Capacity: 55,300 Lbs/Hr @ 71 psia And 499˚F.

Steam Turbine Generator and Condenser Serving Gas Turbine Units, Quadruple Admission, Triple Extraction, 196.8 MW Nominal Rated Electrical Output.

Selective Catalytic Reduction NO_x Control Systems Located Within The HRSG.

Ammonia Injection Systems.

CEM Systems Designed to Continuously Record the Measured Gaseous Concentrations, And Calculate And Continuously Monitor And Record The NO_x And CO Concentrations Corrected To Fifteen (15) Percent Oxygen (O_2) On A Dry Basis.

Aqueous Ammonia Storage Tanks

Aqueous Ammonia Storage Tank Farm Consisting Of 5 Storage Tanks Each with A Capacity Of 30,000 Gallons.

Gasoline Storage Tanks

One 1,000 Gallon Above Ground Storage Tank with Dual Point Vapor Recovery and Submerged Fill Equipment.

Paint Spray Facility

Outdoor Paint Spray Operations Authorized at Three Locations.

Emergency Fire Pumps

Caterpillar Engine Driven Fire Pump 370, Bhp.

Two-Cummins Engine Driven Fire Pumps, Each 340 Bhp.

Laboratory Fume Hoods

Fume Hoods, Located in Chemical Laboratory

Federally Enforceable Conditions

AQ-1 The heat input rate to each gas turbine shall not exceed 1,870 MMBtu/hr. [District Rule 207]

Verification: The project owner shall maintain records according to **AQ-38**. The project owner shall submit reports verifying compliance according to **AQ-48**.

AQ-2 The maximum daily combined emissions from the gas turbines, including start-ups and shutdowns and combustor tuning periods, shall not exceed the following limits **District Rule 207]:**

Pollutant	Lbs/Day
Oxides of Nitrogen (NOx)	2,589.4
Carbon Monoxide (CO)	17,301.8
Particulate Matter <10 microns (PM10)	864.0
Volatile Organic Compounds (VOC)	620.0
Ammonia (NH3)	1,224.0
Sulfur Dioxide (SO_2)	124.0

Verification: The project owner shall maintain records according to **AQ-38** and **AQ-39**. The project owner shall submit reports verifying compliance according to **AQ-48**.

AQ-3 The pollutant mass emission rates in the exhaust discharged to the atmosphere from each gas turbine shall not exceed the following limits [District Rule 207]:

Pollutant	Lbs/Hour	Lbs/Day
Oxides of Nitrogen (NOx)	17.23	413.5
Carbon Monoxide (CO)	37.76	906.2
Particulate Matter <10 microns (PM10)	9.00	216.0
Volatile Organic Compounds (VOC)	4.79	115.0
Ammonia (NH_3)	12.75	306.0
Sulfur Dioxide (SO_2)	1.30	31.2

These limits shall not apply during start-up, which is not to exceed four (4) hours, during shutdown, which is not to exceed two (2) hours, or during steam turbine cold startup or combustor tuning, which are not to exceed six (6) hours. SCR catalytic controls and good engineering practices shall be used to the fullest extent practical during start-up and shutdown to minimize pollutant emissions.

Steam turbine cold start-up periods are start-up periods that last more than four (4) hours or exceed the start-up emissions limits in **AQ-5**, and follow a

shutdown of the steam turbine for at least 72 hours. Combustor tuning activities include all testing, adjustment, tuning and calibration activities associated with combustor replacement or maintenance, recommended by the gas turbine manufacturer to insure safe and reliable steady state operation of the gas turbines. This includes, but is not limited to, adjusting the amount of fuel distributed between the combustion turbine's staged fuel systems to simultaneously minimize NOx, CO, and VOC production while ensuring combustor stability. Energy regulatory agency required performance testing includes but is not limited to load ramp rate performance certification, generating system stability testing, emergency response testing or emergency blackout recovery. Energy regulatory agencies include Federal, Regional or State agencies.

Verification: The project owner shall follow testing requirements and procedures according to **AQ-28**, maintain records according to **AQ-38** and **AQ-39**, and submit reports verifying compliance according to **AQ-48**.

AQ-4 The pollutant concentrations discharged to the atmosphere from each gas turbine shall not exceed the following limits, calculated at 15 percent O_2 [District Rule 207]:

Pollutant	**Concentration (ppm)**
Oxides of Nitrogen (as NO_2)	2.5 (clock hour average)
Carbon Monoxide (CO)	9.0 (rolling three-hour average)
Ammonia (NH_3)	5.0 (3-60 minute averages.)

These limits shall not apply during start-up, which is not to exceed four (4) hours, during shutdown, which is not to exceed two (2) hours, or during steam turbine cold startup or combustor tuning or energy regulatory agency required performance testing, which are not to exceed six (6) hours. SCR catalytic controls and good engineering practices shall be used to the fullest extent practical during start-up, shutdown and combustor tuning to minimize pollutant emissions.

Verification: The project owner shall follow testing requirements and procedures according to **AQ-28** and **AQ-33**, maintain records according to **AQ-38** and **AQ-39**, and submit reports verifying compliance according to **AQ-48**.

AQ-5 The pollutant emission rates discharged to atmosphere from each gas turbine during a start-up, shutdown, or combustor tuning activities – shall not exceed the following limits. These limits apply to any start-up period, which shall not exceed four (4) hours, to any shutdown, which shall not exceed two (2) hours, and to any steam turbine startup or combustor tuning, which shall not exceed six (6) hours. [District Rule 207]

Pollutant	Lbs/Start -Up	Lbs/Cold Start-Up or Combustor Tuning	Lbs/Shutdown
Oxides of Nitrogen (as NO_2)	320.0	480.0	160.0
Carbon Monoxide (CO)	3,608.0	5,412.0	1,804.0
Volatile Organic Compounds (as CH_4)	64.0	214.0	32.0

Verification: The project owner shall maintain records according to **AQ-38** and **AQ-39**. The project owner shall submit reports verifying compliance according to **AQ-48**.

AQ-6 Exceedance of the hourly NOx emission limits specified in Conditions **AQ-3** and **AQ-4** is allowed during short-term excursions ~~of~~ which total less than 10 hours per rolling 12-month period. [District Rule 207]

Short-term excursions are defined as 15-minute periods designated by the project owner that are a direct result of a combustor mode switchover, not to exceed four consecutive 15-minute periods, when the 15-minute average NOx concentration exceeds 2.5 ppm corrected to 15% O_2

The maximum 1-hour average NOx concentration for periods that include short-term excursions shall not exceed 30 ppmvd corrected to 15% O_2. All emissions during short-term excursions shall be included in all calculations of daily, quarterly, and annual mass emissions required by this permit.

Verification: The project owner shall submit reports verifying compliance according to **AQ-48**.

AQ-7 Cumulative emissions, including emissions generated during Start-ups, Shutdowns, and Combustor Tuning Activities, from all power generation equipment and the start-up package boiler at the Moss Landing Power Plant shall not exceed the following quarterly limits [District Rule 207]:

Pollutant	Pounds of Emissions Per Calendar Quarter			
	First	Second	Third	Fourth
NOx (as NO_2)	169,840	169,840	169,840	169,840
SOx	10,920	10,920	10,920	10,920
VOC	44,720	44,720	44,720	44,720
PM10	75,600	75,600	75,600	75,600
CO	662,960	662,960	662,960	662,960

Verification: The project owner shall maintain records according to the **AQ-38** and **AQ-39**. The project owner shall submit reports verifying compliance according to **AQ-48**.

AQ-8 No more than one of the gas turbines shall be operated in support of a steam turbine cold startup or undergo combustor tuning at any one time. [District Rule 207]

Verification: The project owner shall record the start time, end time and duration of each steam turbine cold startup and each combustor tuning period according to **AQ-40**.

AQ-9 The total number of hours during which each gas turbine may be operated to support a steam turbine cold startup or may undergo combustor tuning shall not exceed 30 hours per year (each Gas Turbine). [District Rule 207]

Verification: The project owner shall record the start time, end time and duration of each steam turbine cold startup and each combustor tuning period according to **AQ-40**.

AQ-10 The project owner shall hold Sulfur Dioxide Allowances not less than the total annual emissions of sulfur dioxide for the previous calendar year from Combined Cycle Units 1 (Gas Turbines 1A & 2A) and 2 (Gas Turbines 3A & 4A). [District Rule 219]

Verification: The project owner shall provide the CPM with the sulfur dioxide allowance report demonstrating compliance on an annual basis.

AQ-11 No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 1 or equivalent 20% opacity. [District Rule 400 Adopted 8/15/12]

Verification: The project owner shall demonstrate compliance as outlined in **AQ-29**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-12 Notwithstanding the requirements of Condition **AQ-11,** no air contaminant shall be discharged into the atmosphere for a two (2) hour period from gas turbine exhaust during start-up for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 2 or equivalent to 40% opacity. [District Rule 400 Adopted 8/15/12]

Verification: The project owner shall demonstrate compliance as outlined in **AQ-29**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-13 Particulate matter shall not exceed 0.15 grains per standard dry cubic foot in any exhaust stream, except stationary internal combustion engines. [District Rule 403]

Verification: The project owner shall demonstrate compliance as outlined in **AQ-30**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-14 Sulfur compounds calculated as sulfur dioxide (SO_2) shall not exceed 0.2 percent by volume in any exhaust stream. [District Rule 404]

Verification: The project owner shall demonstrate compliance as outlined in **AQ-31**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-15 Oxides of Nitrogen, calculated as nitrogen dioxide (NO_2), from the Emergency Engines shall not exceed 140 lbs/hr. [District Rule 404]

Verification: The project owner shall demonstrate compliance as outlined in **AQ-32**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-16 The sulfur content on any gaseous fuel used at the facility shall not contain + compounds, calculated as hydrogen sulfide at standard conditions, in excess of 50 grains per 100 cubic feet. [District Rule 412]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-17 The sulfur content on any fuel oil used at the facility shall not exceed 0.5 percent by weight. [District Rule 412]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-18 No more than 40 pounds per day of Volatile Organic Compounds shall be discharged from any permit unit using or applying any solvent. [District Rule 416 Adopted 1/17/01]

Verification: The project owner shall demonstrate compliance as outlined in **AQ-43**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-19 The project owner shall operate the Gasoline Storage Tank with a permanent submerged fill pipe and a Phase I vapor recovery system which has been certified by the California Air Resources Board. [District Rule 418]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-20 The project owner shall operate a Phase II vapor recovery system on the dispenser served by the Gasoline Storage Tank which has been certified by the Air Resources Board. [District Rule 1002]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-21 The project owner shall limit emissions of volatile organic compounds by the use of architectural coatings which comply with the requirements of District Rule 426. [District Rule 426]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-22 The project owner shall limit emissions of volatile organic compounds during solvent cleaning and degreasing operations pursuant to the requirements of District Rule 433. [District Rule 433]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-23 If total combined usage of coatings applied to metal parts and products, as defined by District Rule 434, equals or exceeds 55 gallons per year, each coating used for metal parts and products must not exceed the following volatile organic compound content limits [District Rule 434]

VOC Content Limit, as Applied		
Coating Category	grams/liter	lbs/gal
Pretreatment Wash Primer	780	6.5
All Other Coatings	420	3.5

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-24 The project owner shall comply with the requirements of Sections 61.145 through 61.147 of the National Emission Standard for Asbestos for all demolition and renovation projects. [40 CFR Part 61, Subpart M]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-25 The project owner shall comply with the requirements of 40 CFR Part 68 - Risk Management Plans. The project owner's Risk Management Plan must be revised and updated as required by 40 CFR §68.190. The project owner shall certify compliance with these requirements as part of the annual compliance certification required by 40 CFR Part 70 and this permit. [40 CFR Part 68]

Verification: The project owner shall provide the CPM with the compliance certification on an annual basis.

AQ-26 The project owner shall comply with the requirements of 40 CFR Part 82 - Protection of Stratospheric Ozone. [40 CFR Part 82]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-27 The project owner shall operate and maintain the Diesel Fired Emergency Water Pumps in accordance with manufacturer specifications and shall implement the following engine management practice standards. [40 CFR Part 63, Subpart ZZZZ]

d. Change oil and filter every 500 hours of operation or annually, whichever comes first;

e. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

f. Inspect all hoses and belts every 500 hours or operation or annually, whichever comes first, and replace as necessary.

The specified oil change-out frequency above may be extended provided an optional oil analysis program is instituted with prior District approval as follows.

iv) The oil analysis program must be performed at the same frequency as the oil change-out timelines.

v) The oil analysis program must, at a minimum, analyze the Total Base Number, Viscosity, and Percent Water Content of the present engine oil. Should the Total Base Number remain 30 percent or more of the Total Base Number for new oil, viscosity change no more than 20 percent from the viscosity for new oil, and water content by volume be no more than 0.5 percent, the present engine oil does not need to be changed. If any of the limits are exceeded, the oil must be changed within two (2) working days of receiving the results of the analysis, or before recommencing operation if the engine is out of service.

vi) Records of the oil analysis results and oil changes shall be retained with the maintenance records as required by this license.

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

Testing Requirements and Procedures

AQ-28 Annual performance tests shall be conducted in accordance with the District test procedures, and the written results of the performance tests shall be provided to the District within thirty (30) days after testing. A testing protocol shall be submitted to the District no later than (30) days prior to the testing, and notification to the District at least ten (10) days prior to the actual date of testing shall be provided so that a District observer may be present. Changes to the test date made subsequent to the initial ten-day notification may be communicated by telephone or other acceptable means no less than forty-eight (48) hours prior to the new test date. [District Rules 207 and 218]

The performance tests shall include those parameters specified in the approved test protocol, and shall at a minimum include the following:

h. Oxides of Nitrogen (as NO_2): ppmv dry at 15 percent O_2 and lbm/hour;
i. Carbon monoxide: ppmv dry at 15 percent O_2 and lbm/hour;
j. Volatile Organic Compounds (as CH_4): ppmv dry at 15 percent O_2 and lbm/hour; and
k. Ammonia (NH_3): ppmv dry at 15 percent O_2 and lbm/hour;

and the following parameters:

l. Natural gas consumption;
m. Electricity generated during the test; and
n. Stack gas flow rate (SCFM) calculated according to procedures in EPA Method 19.

Verification: The project owner shall submit the District approved testing protocol and performance test results to the CPM no later than the second quarterly compliance report deadline following the testing. If the testing protocol and results are submitted to the CPM in a separate filing other than the quarterly compliance report, the quarterly compliance report shall include a statement indicating the date the required documents were previously submitted.

AQ-29 No testing is specified for the generic (District Rule 400) opacity requirement from condition numbers **AQ-11** or **AQ-12**. The equipment is assumed to be in compliance with the opacity requirement due to historical operations and local compliance inspections without opacity violations. If testing is conducted for condition numbers **AQ-11** or **AQ-12**, The project owner should conduct testing in accordance with the methodology contained in EPA Method 9 or equivalent method and the averaging/aggregating period contained in District Rule 400. [District Rule 218]

Verification: The project owner shall perform a Visible Emissions Evaluation to determine compliance as requested by the District or CPM. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-30 No testing is specified for the (District Rule 403) particulate matter emission standard from condition number **AQ-13**. The fuel burning equipment is assumed to be in compliance with the particulate matter emission standard based upon the engineering calculations contained in the evaluation report. If testing is conducted for condition number **AQ-13**, the project owner should conduct testing in accordance with the methodology contained in EPA Method 5 or equivalent method. [District Rule 218]

Verification: The project owner shall perform particulate testing to determine compliance as requested by the District or CPM. The project owner shall make the site

and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-31 No testing is specified for the (District Rule 404) sulfur concentration limit in condition number **AQ-14**. The fuel burning equipment is assumed to be in compliance with this sulfur concentration limit based upon the engineering calculations contained in the evaluation report. If testing is conducted for condition number **AQ-14**, the project owner should conduct testing in accordance with the methodology contained in EPA Method 6 or equivalent method [District Rule 218]

Verification: The project owner shall perform sulfur dioxide testing to determine compliance as requested by the District or CPM. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-32 No testing is specified for the (District Rule 404) NOx (oxides of nitrogen) limit in condition number **AQ-15**. The fuel burning equipment is assumed to be in compliance with these NOx limits based upon the engineering calculations contained in the evaluation report. If testing is conducted for condition number **AQ-15**, the project owner should conduct testing in accordance with the methodology contained in EPA Method 7E or equivalent method. [District Rule 218]

Verification: The project owner shall perform nitrogen dioxide testing to determine compliance as requested by the District or CPM. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-33 The project owner shall cause testing to be performed to verify compliance with the Ammonia (NH_3) slip limit established in **AQ-16** as follows:

b. Gas turbine testing shall be performed every EPA operating quarter, as defined in 40 CFR Part 72, or in the next EPA operating quarter if a gas turbine cannot be tested in an EPA operating quarter due to the unit being non-operational at the time of scheduled testing.

The project owner shall conduct this testing in accordance with the collection method specified in Bay Area Air Quality Management District Source Test Procedure ST-1B and the analysis specified in EPA method 350.3. [District Rules 207, and 218]

Verification: The project owner shall provide a record of compliance to the CPM in the quarterly compliance reports, no later than the second quarterly compliance report deadline following the testing.

Monitoring and Record Keeping Requirements

AQ-34 CEM Systems shall be installed and operated on Combined Cycle Units 1 (Gas Turbines 1A and 2A) and 2 (Gas Turbines 3A and 4A). These systems shall be designed to continuously record the measured gaseous concentrations, and calculate and continuously monitor and record the CO, CO_2 or O_2, and NOx concentrations corrected to fifteen (15) percent oxygen (O_2) on a dry basis. [District Rules 207, 213 and 219, 40 CFR Part 64]

Verification: The project owner shall submit reports according to **AQ-48**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-35 The equipment installed for the continuous monitoring of CO_2 or O_2 and NOx shall be maintained and operated in accordance with 40 CFR Parts 72 and 75. [District Rule 207]

Verification: The project owner shall submit reports according to **AQ-48**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-36 The equipment installed for the continuous monitoring of CO on Combined Cycle Units 1 (Gas Turbines 1A and 2A) and 2 (Gas Turbines 3A and 4A) shall be maintained and operated in accordance with 40 CFR Part 60 Appendix F and with the ability to calculate CO emission concentrations corrected to fifteen (15) percent oxygen for the Turbines on a dry basis. [District Rule 207]

Verification: The project owner shall submit reports according to **AQ-48**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-37 A written Quality Assurance program for Combined Cycle Units 1 (Gas Turbines 1A and 2A) and 2 (Gas Turbines 3A and 4A) CEMs must be established in accordance with 40 CFR Part 75, Appendix B for NOx and 40 CFR Part 60, Appendix F for CO which includes, but is not limited to: procedures for daily calibration testing, quarterly linearity and leak testing, record keeping and reporting implementation, and relative accuracy testing. [District Rule 219]

Verification: The project owner shall comply with the written Quality Assurance program. The project owner shall submit reports according to **AQ-48**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-38 The project owner shall demonstrate compliance by using properly operated and maintained continuous emission monitors (during all hours of operation including equipment Start-up and Shutdown periods and Combustor Tuning

Activities, except for periods of CEM maintenance performed in accordance with District requirements) for all of the following parameters [District Rule 207]:

a. Firing hours and Fuel Flow Rates.

b. Oxygen (O_2) Concentrations, Nitrogen Oxide (NOx) Concentrations, and Carbon Monoxide (CO) Concentrations.

c. Ammonia Injection Rates.

The project owner shall record all of the above parameters every 15 minutes (excluding normal calibration periods) and shall summarize all of the above parameters for each clock hour. For each calendar day, the project owner shall calculate and record the total Firing Hours, the average hourly Fuel Flow Rates, and pollutant emission concentrations.

The project owner shall use the parameters measured above and District-approved calculation methods to calculate the following parameters:

d. Heat Input Rate.

e. Corrected NOx concentrations, NOx mass emissions (as NO_2), corrected CO concentrations, and CO mass emissions.

For each source, the project owner shall record the parameters specified in d. and e. of this Condition every 15 minutes (excluding normal calibration periods). As specified below, the project owner shall calculate and record the following data:

f. Total Heat Input Rate for every clock hour.

g. The NOx mass emissions (as NO_2), and corrected average NOx emission concentrations for every clock hour.

h. The CO mass emissions, and corrected average CO emission concentrations for every clock hour.

i. On an hourly basis, the cumulative total NOx mass emission (as NO_2) and the cumulative total CO mass emissions.

j. For each calendar day, the cumulative total NOx mass emission (as NO_2) and the cumulative total CO mass emissions.

k. For each calendar quarter, the cumulative total NOx mass emission (as NO_2) and the cumulative total CO mass emissions.

l. For each calendar year, the cumulative total NOx mass emission (as NO_2) and the cumulative total CO mass emissions.

Verification: The project owner shall submit reports according to **AQ-48**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-39 The project owner shall calculate and record on a daily basis, the Volatile Organic Compound (VOC) mass emissions, Fine Particulate Matter (PM10) mass emissions, Sulfur Dioxide (SO_2) mass emissions, and Ammonia (NH_3) mass emissions from each power generating source. The project owner shall use the actual heat input rates, actual Start-up times, actual Shutdown times, and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows [District Rule 207]:

a. For each calendar day, VOC, PM10, SO_2, and NH_3 mass emissions shall be summarized for each source.

b. On a daily basis, the cumulative total VOC, PM10, SO_2 and NH_3 mass emissions shall be summarized for each calendar quarter and for the calendar year.

Verification: The project owner shall submit reports according to **AQ-48**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-40 To demonstrate compliance with **AQ-9**, the project owner shall record the start time, end time and duration of each steam turbine cold start-up and each combustor tuning period. This information shall be compiled and supplied to the District in the semiannual monitoring report as specified in **AQ-52**. [District Rule 207]

Verification: The project owner shall submit the semiannual monitoring reports to the CPM according to **AQ-52**.

AQ-41 Instrumentation must be operated to measure the SCR catalyst inlet temperature and pressure differential across the SCR catalyst. [District Rule 207]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-42 The project owner shall monitor and report SO_2 emissions from Combined Cycle Units 1 (Gas Turbines 1A and 2A) and 2 (Gas Turbines 3A and 4A) in accordance with 40 CFR Parts 72 and 75. [District Rule 219]

Verification: The project owner shall submit reports according to **AQ-48**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-43 The project owner shall maintain daily records to document compliance with **AQ-18** [District Rule 416 Adopted 4/20/94]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-44 The project owner shall maintain records showing the quantity of all gasoline delivered to the gasoline storage tank. [District Rule 418]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-45 As applicable, the project owner shall maintain the following general records of required monitoring information [District Rule 218]:

h) the date and time of sampling or measurements;

i) the date(s) analyses were performed;

j) the company or entity that performed the analyses;

k) the analytical techniques or methods used;

l) the results of such analyses;

m) the operating conditions existing at the time of sampling or measurement; and

n) the records of quality assurance for continuous monitoring systems (including, but not limited to quality control activities, audits, and calibration drift checks) and source testing methods.

Verification: The project owner shall comply with all monitoring, record keeping requirements, and reporting requirements. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-46 The project owner shall maintain records on the occurrence and duration of any start-up, shutdown, or malfunction in the operation of any CEM. [District Rule 213]

Verification: The project owner shall comply with all monitoring, record keeping requirements, and reporting requirements. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-47 The project owner shall retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring, sample collection, measurement, report, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. [District Rule 218]

Verification: The records shall be maintained for a period of five years after creation and be available for inspection by representatives of the District, U.S. EPA, and CEC upon request.

Reporting Requirements

AQ-48 The project owner shall submit monthly reports on the continuous emissions monitoring systems to the District in accordance to the Monitoring and Reporting Protocol for Monthly Reporting (Reporting Protocol). The written Monthly Report shall be submitted to the District within 30 days from the end of the month and these shall include: [District Rule 207, 213, &218]

a. the time intervals, date, and magnitude of excess emissions, nature and cause of the excess (if known), corrective actions and preventative measures adopted;

b. the averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant in question;

c. time and date of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of system repairs and adjustments; and

d. a negative declaration specifying when no excess emissions occurred; and

e a summary of actual monthly emissions, summarized and totaled on a quarterly basis, from the CEM for all subject equipment which operated during the month and/or quarter.

Verification: The project owner shall submit the monthly reports to the CPM at either the time of submittal to the District or in the following quarterly report required by **AQ-SC7**, or per a different time frame agreed on by the project owner and CPM.

AQ-49 The project owner shall report all breakdowns which result in the inability to comply with any emission standard or requirement contained on this permit to the Air Pollution Control Officer (APCO) within 1 hour of the occurrence, this one hour period may be extended up to six hours for good cause by the APCO. The APCO may elect to take no enforcement action if the project owner demonstrates to the APCO s satisfaction that a breakdown condition exists.

The estimated time for repair of the breakdown shall be supplied to the APCO within 24 hours of the occurrence and a written report shall be supplied to the APCO within 5 working days after the occurrence has been corrected. This report shall include at a minimum:

e. a statement that the condition or failure has been corrected and the date of correction;

f. a description of the reasons for the occurrence;

g. a description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future; and

h. an estimate of the emissions caused by the condition or failure.

Verification: The project owner shall summarize breakdown events and submit copies of associated reports in the following quarterly operating report required by **AQ-SC7**.

AQ-50 If combined annual emissions from the entire facility are greater than 25 tons of either NO_X or VOC, the project owner shall submit an Emission Statement for each Permit to Operate and Authority to Construct in accordance with the mandatory provisions of Section 182(a)(3)(B)(ii) of the federal Clean Air Act. [District Rule 300, Section 4.4]

Verification: The project owner shall submit an annual statement of compliance in the Annual Compliance Report required by **AQ-SC8**.

AQ-51 The project owner shall submit quarterly Electronic Data Reports (EDR) to the EPA for Combined Cycle Units 1 (Gas Turbines 1A and 2A) and 2 (Gas Turbines 3A and 4A). These reports must be submitted within 30 days following the end of each calendar quarter and shall in electronic format and at a minimum must include all information required items listed in Section 75.64. [40 CFR Part 75]

Verification: The project owner shall submit copies of the quarterly EDR to the CPM in the quarterly reports as required by **AQ-SC7**.

AQ-52 The project owner shall submit semiannual monitoring reports to the District, in a District approved format, no later than August 15 for the period of January 1 through June 30 and no later than February 15 for the period of July 1 through December 31. [District Rule 218]

These monitoring reports shall include at a minimum:

a. the time intervals, date~~,~~ and magnitude of excess emissions, nature and cause of the excess (if known), corrective actions and preventative measures adopted;

b. the averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant in question;

c. all information pertaining to any monitoring as required by this permit; and

d. a negative declaration specifying when no excess emissions occurred.

Verification: The project owner shall submit the semiannual monitoring reports to the CPM or summary in the following quarterly report required by **AQ-SC7**.

AQ-53 The project owner shall submit an annual compliance certification report to the District and EPA, in a District approved format, no later than February 15 for the period of January 1 through December 31 of the preceding year. [District Rule 218]

This report shall include a written statement from the responsible official which certifies the truth, accuracy, and completeness of the report and shall include at a minimum:

a. identification of each term or condition of the permit that is the basis of the certification;

b. the compliance status;

c. whether compliance was continuous or intermittent; and

d. the method(s) used for determining the compliance status of the source, currently and over the reporting period.

Verification: The project owner shall submit the semiannual monitoring reports to the CPM or summary in the following quarterly or annual compliance report required by **AQ-SC7**.

General Conditions

AQ-54 The project owner shall comply with all conditions of the federal operating permit. Any noncompliance with a permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [District Rule 218]

Verification: The project owner shall submit an annual compliance certification as required in **AQ-53**. The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-55 In an enforcement action, the fact that the project owner would have to halt or reduce the permitted activity in order to maintain compliance with the conditions of any permit is not a defense. [District Rule 218]

Verification: No verification needed.

AQ-56 The federal operating permit may be modified, revoked, reopened and reissued, or terminated for cause as determined by the District. The filing of a request by the project owner for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 218]

Verification: No verification needed.

AQ-57 The federal operating permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. [District Rule 218] [District Rule 218]

Verification: No verification needed.

AQ-58 The project owner shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the project owner shall also furnish to the District copies of records required to be retained by the federal operating permit. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-59 For applicable requirements that will become effective during the permit term, the project owner shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement. [District Rule 218]

Verification: The project owner shall include a statement of compliance in the annual report.

AQ-60 Any document submitted to the District pursuant to the federal operating permit shall contain certification by the responsible official of truth, accuracy and completeness. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The project owner shall promptly, upon discovery, report to the District a material error or omission in these records, reports, plans, or other documents. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-61 The project owner shall report any violation of any requirement contained in the Title V permit to the District within 96 hours after such occurrence. The violation report shall include the time intervals, date and magnitude of excess emissions; nature and cause of the excess (if known), corrective actions and preventive measures adopted. [District Rule 218]

Verification: The project owner shall include the notifications and any associated reports in the following quarterly compliance reports required by **AQ-SC7**.

AQ-62 Upon any administrative or judicial challenge, all the emission limits, specific and general conditions, monitoring, record keeping, and reporting

requirements of the Title V permit, except those being challenged, remain valid and must be complied with. [District Rule 218]

Verification: No verification needed.

AQ-63 For this federal operating permit to remain valid through the permit term of five years from the date of issuance, the project owner shall pay an annual emission fee based upon the requirements of District Rule 308. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-64 The project owner shall have available at the facility at all times a copy of this federal operating permit. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-65 For protection from enforcement action based upon an emergency, as defined in District Rule 218, the responsible official for the project owner shall submit to the District relevant evidence which demonstrates [District Rule 218]:

a) an emergency occurred; and

b) that the project owner can identify the cause(s) of the emergency; and

c) that the facility was being properly operated at the time of the emergency; and

d) that all steps were taken to minimize the emissions resulting from the emergency; and

e) within two working days of the emergency event, the project owner shall provide the District with a description of the emergency and any mitigating or corrective actions taken. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-66 Upon presentation of credentials, the project owner shall allow the District, the ARB, the EPA, or an authorized representative, to perform the following [District Rule 218]:

e. enter upon the premises where the federal operating permit source is located or in which any records are required to be kept under the terms and conditions of the federal operating permit;

f. to have access to and copy any records required to be kept under the terms and conditions of the federal operating permit;

g. to inspect any equipment, operation, or process described or required in the federal operating permit; and,

h. to sample emissions from the source.

Verification: Representatives of the District, CPM, the Air Resources Board, or other appropriate agencies shall have the authority to enter the premises to witness source tests, review and copy records, inspect equipment and sample emissions for the sources.

AQ-67 The renewal application for the Title V permit shall be submitted to the District at least 6 months but no greater than 18 months prior to permits expiration. [District Rule 218]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-68 The gas turbines shall be abated by a properly operated and maintained selective catalytic reduction system. [District Rule 207]

Verification: The project owner shall make the site and records available for inspection by representatives of the District, ARB, U.S. EPA, and CEC upon request.

AQ-69 No emissions shall constitute a public nuisance.

Verification: No verification needed. The project owner shall comply with the Reporting of Complaints, Notices, and Citations requirements outlined in the Compliance Monitoring Plan.

AQ-70 The project owner shall fund the operation of the Stationary Source percentage of the District's Salinas air monitoring station.

Verification: The project owner shall submit a statement of compliance in the Annual Compliance Report required by **AQ-SC8**.