

**DOCKETED**

<b>Docket Number:</b>	06-AFC-07C
<b>Project Title:</b>	Humboldt Bay Generating Station - Compliance
<b>TN #:</b>	231262
<b>Document Title:</b>	2018 Annual Compliance Report
<b>Description:</b>	Humboldt Bay Generating Station 2018 Annual Compliance Report
<b>Filer:</b>	Ryan Messinger
<b>Organization:</b>	Pacific Gas & Electric Company
<b>Submitter Role:</b>	Applicant
<b>Submission Date:</b>	12/17/2019 10:56:13 AM
<b>Docketed Date:</b>	12/17/2019

HBGS-CEC-176

January 31, 2019

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Condition of Certification  
COM-7 (06-AFC-07C)**

Dear Mr. Winstead:

Please find the attached pursuant to HBGS Conditions of Certification COM-7. This is the Annual Compliance Report for the Humboldt Bay Generating Station (HBGS) and represents the operational period of October 1, 2017 through September 30, 2018. Within this report you will find the following information;

1. Attachment A: an updated compliance matrix showing the status of all Conditions of Certification (with exception to fully satisfied conditions as they do not need to be included after they have been reported as completed);
2. Attachment B: a summary of the current project operating status with explanations of any significant changes to facility operations during the reporting year;
3. Attachment C: documents required by specific conditions to be submitted along with the Annual Compliance Report.
4. Attachment D: a cumulative listing of all post-certification changes approved by the California Energy Commission or cleared by the CPM;
5. Attachment E: an explanation for any submittal deadlines that were missed, accompanied by an estimate of when the information will be provided;
6. Attachment F: a listing of filings submitted to, or permits issued by, other governmental agencies during the year;
7. Attachment G: a projection of project compliance activities scheduled during the next year;
8. Attachment H: a listing of the year's additions to the on-site compliance files;
9. Attachment I: an evaluation of the on-site contingency plan for unplanned facility closure, including any suggestions necessary for bringing the plan up to update;

10. Attachment J: a listing of complaints, notices of violations, official warnings, and citations received during the year, a description of the resolution of any resolved matters, and the status of any unresolved matters.
11. Attachment K: Incident Reporting, COM-13 memo, dated May 23, 2017. Includes a list of all COM-13 related events and reports during the reporting period.

Should you have any questions or comments please do not hesitate to contact me.

Sincerely,



Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

Enclosure

cc: Chuck Holm, PG&E (electronic)

# **Attachment A**

## **Compliance Matrix**

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-SC6	Ops	The project owner shall submit to the CPM for review and approval any modification proposed by the project owner to any project air permit. The project owner shall submit to the CPM any modification to any permit proposed by the District or U.S. EPA, and any revised permit issued by the District or U.S. EPA, for the project.	1) Submit any proposed air permit modification to the CPM within five working days of its submittal either by a) the project owner to an agency, or b) receipt of proposed modifications from an agency. 2) Submit all modified air permits to the CPM within 15 days of receipt.	As necessary	1) Within 5d of submittal or receipt; 2) within 15d of receipt					Ongoing	
AQ-SC8	Ops	Until the ARB enacts a program to report and restrict GHG emissions from the electricity sector under the CA Global Warming solutions Act of 2006 (AB32), the project owner shall either participate in a climate action registry approved by the CPM, or report on an annual basis to the CPM the quantity of greenhouse gases emitted as a direct result of facility electricity production. <b>See AQ-SC-8 for complete list of monitoring, recording, and testing requirements.</b>	The project annual GHG emissions shall be reported as required by ARB under AB32 and, until such requirements are enacted, as a CO <sub>2</sub> equivalent, by the project owner to a climate action registry approved by the CPM, or to the CPM annually as part of the operational report required (AQ-SC9) or the annual air quality report.	Climate Action Registry	As required by ARB when enacted. Until then, to CPM in Annual Operational Report or in registry					Closed	AB 32 is now in effect.
AQ-SC9	Ops	The project owner shall submit to the CPM semi-annual operation reports that include operational and emissions information as necessary to demonstrate compliance with the conditions of certification. The semi-annual operation report shall specifically note or highlight incidences of noncompliance.	The project owner shall submit semi-annual operation reports to the CPM and APCO no later than 30 days following Dec. 31 and June 30 of each calendar year. The report for following Dec. 31 can be an annual compliance summary for the preceding year.	NCUAQMD						Ongoing	This information shall be maintained on site for a minimum of five years and shall be provided to the CPM and District personnel upon request.
AQ-2	Ops	If modifications to the permit are necessary, the Permittee of the Title V source permitted herein shall submit to the Air Pollution Control Officer a complete Title V permit application for either an Administrative, Minor, or Significant Title V permit modification.		NCUAQMD / CPM						Ongoing	
AQ-3	Ops	The Permittee shall submit to the Air Pollution Control Officer timely updates to the Title V application as new requirements become applicable to the source, and in no event later than 30 days after the end of the quarter during which the new requirement takes effect.	The project owner shall submit to both the District and CPM the Title V application updates as needed.	NCUAQMD / CEC	In a timely manner, less than 30 days after the end of the quarter					Ongoing	
AQ-4	Ops	Permittee shall promptly provide additional information in writing to the Air Pollution Control Officer upon discovery of inaccuracies contained within an application or supplement thereto the permittee shall immediately notify the APCO. The permittee shall undertake action to correct the deficiency within the time frame specified by the APCO.	The project owner shall submit to both the District and CPM the Title V information as needed.	NCUAQMD / CEC	As needed					Ongoing	
AQ-5	Ops	Upon written request of the Air Pollution Control Officer, the Permittee's responsible official shall supplement any complete application with additional information within the time frame specified by the Air Pollution Control Officer.	The project owner shall submit to both the District and CPM the Title V additional information as needed.	NCUAQMD /CEC	If required					Ongoing	
AQ-6	Ops	Compliance: When submitting an application for a permit pursuant to Regulation V, the permittee shall include the following information: A certification by a responsible official of all reports and other documents submitted for permit application: compliance progress reports at least every 6 months for, and submitted no later than 30 days after, the periods January 1st through June 30th and July 1st through December 31st of each year; statements on compliance status with any applicable enhanced monitoring; and annual compliance plans, no later than January 30th of each year, which shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.	The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-7	Ops	Each permit issued pursuant to District Regulation 5 for any source shall include a condition for a fixed term not to exceed five years from the time of issuance.	Fixed term of permit not to exceed five years.	NCUAQMD /CEC						Ongoing	

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AQ-8	Ops	The Permittee shall comply with all conditions of the Title V permit.	Comply with Title V permit	NCUAQMD	5 years					Ongoing	
AQ-9	Ops	The Permittee shall not assert or use as a defense, expressly, impliedly, or by operation of law or past practice, in any enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Title V permit.		NCUAQMD						Ongoing	
AQ-10	Ops	The Title V permit may be modified, revoked, reopened and reissued or terminated for cause.		NCUAQMD						Ongoing	
AQ-11	Ops	The Permittee shall furnish to the Air Pollution Control Officer, within 10 (ten) days of the request, any information that the Air Pollution Control Officer may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with this Title V permit. Upon request, the permittee shall also furnish to the Air Pollution Control Officer copies of records required to be kept by conditions of this permit.	The project owner shall submit to both the District and CPM the Title V permit compliance information within ten days of request by the Air Pollution Control Officer.	NCUAQMD /CEC	Within 10d of request from APCO					Ongoing	
AQ-12	Ops	Non-compliance with any federally enforceable requirement in this Title V permit is grounds for Title V permit renewal application.		NCUAQMD						Ongoing	
AQ-13	Ops	A pending Title V permit action (e.g. a proposed permit revision) or notification of anticipated noncompliance does not stay any permit condition.		NCUAQMD /CEC						Ongoing	
AQ-14	Ops	The Title V permit does not convey any property rights of any sort or any exclusive privilege.		NCUAQMD						Ongoing	
AQ-15	Ops	Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the Air Pollution Control Officer or an authorized representative to perform all of the activities outlined in Condition AQ-13. <b>See AQ-15 for complete list.</b>	The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-16	Ops	Monitoring Reports--The Permittee shall submit to the Air Pollution Control Officer at least once every six months, unless required more frequently by an applicable requirement, reports of all required monitoring set out in this Title V permit.	The project owner shall submit to the CPM and APCO the semi-annual operational reports that include monitoring results (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-17	Ops	Compliance Reports--The Permittee shall submit to the Air Pollution Control Officer and to U.S. EPA (Air 3, U.S. EPA, Region IX) on an annual basis, unless required more frequently by additional applicable federal requirements, a certification of compliance by the Permittee's responsible official with all terms and conditions contained in the Title V permit, including emission limitations, standards and work practices. All required reports must be certified by the responsible official and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete. <b>See AQ-17 for compliance certification requirements.</b>	The project owner shall submit to the CPM and APCO the annual operational reports that include compliance results (AQ-SC9).	NCUAQMD; USEPA						Ongoing	
AQ-18	Ops	The Permittee shall report within 24 hours of detection any deviation from a federally enforceable Title V permit condition. In order to fulfill the reporting requirement of this condition, the permittee shall notify the APCO by telephone, email, or fax followed by a written statement within seven (7) days describing the nature of the deviation from the federally enforceable permit condition.	The project owner shall submit to both the District and CPM the notification within 24 hours after determining any deviation from a federally enforceable Title V permit condition.	NCUAQMD /CEC	within 24 hours of deviation					Ongoing	

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CEC Commission Decision 09/08

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AQ-19	Ops	All monitoring data and support information required by a federally enforceable applicable requirement must be kept by the stationary source for a period of 5 years from the date of the monitoring sample, measurement, report or application.	The project owner shall make the site available for inspection by representatives of the District, CARB and the Commission upon request.	NCUAQMD /CEC	Keep for 5 years					Ongoing	
AQ-20	Ops	The Permittee shall not discharge such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public; or which endanger the comfort, repose, health or safety of any such persons or the public; or which cause or have a natural tendency to cause injury or damage to business or property.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request. The project owner shall submit all air quality complaints received to the CPM within 10 days (see COMPLIANCE-10).	NCUAQMD /CEC	Within 10 days of air quality complaints					Ongoing	
AQ-21	Ops	Visible Emissions: The owner, operator or Permittee of this Title V source shall not discharge into the atmosphere from any single source of emission any air contaminant, other than uncombined water vapor, for a period or periods aggregating more than three minutes in any one hour which is: A. As dark or darker in shade as that designated No. 2 (6-minute average), on the Ringelmann Chart, as published by the United States Bureau of Mines, or B. Of such opacity as to obscure a human observer's view, or a certified calibrated in-stack opacity monitoring system to a degree equal to or greater than 40% opacity.	The project owner shall make the site and records available for inspection by representatives of the District, CARB and the Commission upon request. The project owner shall submit all air quality complaints received to the CPM within 10 days (see COMPLIANCE-10)	NCUAQMD /CEC	Within 10 days of air quality complaints					Ongoing	
AQ-22	Ops	Particulate discharge limits - See AQ-22 for complete list.	The project owner shall submit the results of source tests to both the District and CPM in accordance with Condition AQ-137.	NCUAQMD /CEC						Ongoing	
AQ-23	Ops	The Permittee shall not handle, transport or store, or allow open storage of materials in such a manner which allows or has the potential to allow unnecessary amounts of particulate matter to become airborne, including, but not limited to, the activities detailed in AQ-23.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request. The project owner shall submit all air quality complaints received to the CPM within 10 days (see COMPLIANCE-10).	NCUAQMD /CEC	Within 10 days of air quality complaints					Ongoing	
AQ-24	Ops	Sulfur Compounds: The owner(s), operator(s) or Permittee(s) of this Title V source shall not discharge into the atmosphere from any single source of emissions whatsoever sulfur oxides, calculated as sulfur dioxide (SO <sub>2</sub> ) in excess of 1,000 ppm; or in excess of the specific source emission limitations of Federal New Source Performance Standards, as applicable.	The project owner shall submit the results of source tests to both the District and CPM in accordance with Condition AQ-137.	NCUAQMD /CEC	See AQ-137					Ongoing	
AQ-25	Ops	Open Burning: The Permittee of this Title V source shall not ignite or cause to be ignited or suffer, allow or maintain any open outdoor fire for the disposal of rubber, petroleum or plastic wastes, demolition debris, tires, tar paper, wood waste, asphalt shingles, linoleum, cloth, household garbage or other combustible refuse, or for metal salvage or burning of motor vehicle bodies.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-26	Ops	Equipment Breakdowns: The Permittee shall comply with the emergency provisions contained in all applicable federal requirements. A) Within two working days of the emergency event, the permittee shall notify the APCO with a description of the emergency and any mitigating or corrective actions taken. B) Within two weeks of an emergency event, the owner(s), operator(s) or Permittee's responsible official shall submit to the Air Pollution Control Officer a signed contemporaneous log. C) The permittee has the burden of proof to establish that an emergency occurred in any enforcement proceeding.	The project owner shall submit all required notification and reports to the APCO and CPM within the timeframes outlined above. The project owner shall also report all emergency events in the semi-annual operation reports.	NCUAQMD	1) within 2 weeks of breakdown; 2) in SOR					Ongoing	

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CEC Commission Decision 09/08

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AQ-27	Ops	The permittee shall not allow or cause the opening of appliances containing CFCs for maintenance, service, repair, or disposal unless first complying with the required practices set out pursuant to 40 CFR 82.156.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-28	Ops	Equipment used during the maintenance, service, repair, or disposal of appliances containing CFCs shall comply with the standards for recycling and recovery equipment set out in and pursuant to 40 CFR 82.158.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-29	Ops	The permittee and its contractors and agents performing maintenance, service, repair or disposal of appliances containing CFCs must be certified by an approved technician certification program set out in and pursuant to 40CFR 82.161.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-30	Ops	The permittee shall comply with the standards of 40 CFR 61 Subpart M which regulates demolition and renovation activities pertaining to asbestos materials.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-31	Ops	Payment of Fees: The Permittee of this Title V source shall pay an annual permit fee and other fees as required in accordance with NCUAQMD Rule 300.	The project owner shall submit a statement of compliance in the semi-annual operation report (AQ-SC9)	NCUAQMD	Pay annually; report payment in annual operation reports					Ongoing	
AQ-32	Ops	If subject to section 112(r) of the Clean Air Act and 40 CFR Part 68, the Title V Permittee shall register and submit to the U.S.EPA the required data related to the risk management plan (RMP) for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r) (3) of the CAA as amended in 68.130. The list of substances, threshold quantities and accident prevention regulations promulgated under Part 68 do not limit in any way the general duty provisions under Section 112 (r) (1).	Refer to Condition of Certification Haz-2.	NCUAQMD						Ongoing	
AQ-33	Ops	If subject to Section 112 (r) of the CAA and 40 CFR Part 68, the permittee shall comply with the requirements of 40 CFR Part 68 no later than the latest of the following dates; A) June 21, 1999 B) Three years after the date on which a regulated substance is first listed under 68.130, or C. The date on which a regulated substance is first present above a threshold quantity in a process.	The project owner shall submit to both the District and CPM the information required under this condition.	NCUAQMD /CEC						Ongoing	
AQ-34	Ops	If subject to Section 112 (r) of the CAA and 40 CFR Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68.	The project owner shall submit to both the District and CPM the information required under this condition.	NCUAQMD /CEC						Ongoing	
AQ-35	Ops	If subject to Section 112 (r) of the CAA and 40 CFR Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112 (r) as part of the annual compliance certification. This annual compliance certification shall be submitted and received no later than January 30 of each year.	The project owner shall submit to both the District and CPM the annual compliance certification requirement as part of the semi-annual operation report (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-36	Ops	Conditional Transfer of Ownership. In the event of any changes in control or ownership of these facilities, this permit together with its terms and conditions shall be binding on all subsequent owners and operators. See AQ-36 for all requirements if there is a transfer of ownership.	The outgoing project owner shall submit to both the District and CPM a copy of the notification letter within 30 days of the transfer of ownership (see also AQ-54 and COMPLIANCE-14).	NCUAQMD	1) if occurs; 2) within 30d; 3) within 30d					Ongoing	

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CEC Commission Decision 09/08

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AQ-37	Ops	The new owner(s) and operator(s) of this Title V source shall notify the APCO within 30 days of the transfer of ownership and which notification shall include a certification by the responsible party that the Title V facility operations are to be operated in the same operational parameters as set out herein, and as before the transfer of ownership.	The new project owner shall submit to both the Edistrict and CPM the notification within 30 days of the transfer of ownership (see also AQ-57 and COMPLIANCE-14).	NCUAQMD	Within 30 days of transfer.					Ongoing	
AQ-38	Ops	Severability: If any term or condition of this permit, for any reason, be adjudged by a court of competent jurisdiction to be invalid, such judgment shall not affect or invalidate the remainder of this permit. These permit conditions are enforceable individually and severally.	No verification needed	NCUAQMD						Ongoing	
AQ-39	Ops	Any permit or written authorization issued pursuant herein shall not be transferable, by operation of law or otherwise, from one location to another, or from one person to another, unless usch transfer occurs as a condition of this permit or as a modification to the permit and with written notification to the APCO within 30 days of transfer of ownership.	No verification needed	NCUAQMD	Within 30 days of the transfer of ownership.					Ongoing	
AQ-40	Ops	Reserved									
AQ-41	Ops	The Permittee of this Title V source shall not cause or permit the construction or modification of any new source of air contaminants or modifications to an existing source, either minor or major, without first having obtained an Authority to Construct (ATC) permit from the Air Pollution Control Officer.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request. The project owner shall submit any request or application for a new air permit or modification of any existing air permit to the CPM within five working days of its submittal. This includes proposed air permits and modification either by: 1) the project owner to an agency, or 2) receipt of proposed modifications from an agency. The project owner shall submit all modified air permits to the CPM within 15 days of receipt (AQ-SC6)	NCUAQMD /CEC	Within five working days of the submittal. All modified air permits submitted to CPM within 15 days of receipt (AQ-SC6).					Ongoing	
AQ-42	Ops	This permit is effective only upon payment of the intial permit fees set out in District Rules and Regulations.	No verification needed	NCUAQMD						Ongoing	
AQ-43	Ops	This permit is issued pursuant to California Health and Safety Code Section 42300. Commencement of any act or operation authorized by this permit shall be conclusively deemed to be acceptance of all terms and conditions contained herein.	The project owner shall make the site available for inspection by representatives of the District, ARB and the Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-44	Ops	The permittee shall comply with all conditions of this permit. Any violation of any condition of this permit is a violation of District Rules and Regulations, and California State Law.	No verification needed	NCUAQMD						Ongoing	
AQ-45	Ops	The permit conditions shall be liberally construed for the protection of the health, safety and welfare of the people of the District.	No verification needed	NCUAQMD						Ongoing	
AQ-46	Ops	The District Rules and Regulations may be superseded or revised by the District Board with notice as required by state law. It is permittee's responsibility to stay current with Rules and Regulations governing its business. The permittee is therefore expected to, and shall, comply with all applicable rules and regulations.	No verification needed	NCUAQMD						Ongoing	

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AQ-47	Ops	Permit requirements apply to the facility owner and/or operator(s) and any contractor(s) or subcontractor(s) performing any activity authorized under this Permit. Any person(s) including contractor(s), subcontractor(s), not in compliance with the applicable permit requirements are in violation of State and Local laws, and are subject to appropriate civil and criminal penalties. The facility owner and/operator, and all contractor(s) or subcontractor(s) are strictly liable for the actions and violations of their employee(s). A violation committed by a contractor(s) or subcontractor(s) shall be considered a violation by the facility owner(s) and/or operator(s), and is also a violation by the contractor(s) and/or any subcontractor(s).	No verification needed	NCUAQMD						Ongoing	
AQ-48	Ops	Prior to building, erecting, altering, or replacing any article, machine, equipment, or other contrivance where the use of said article may result in the discharge of air pollutants or in the reduction, elimination, or control of air pollutants, the Permittee shall obtain written authorization from the APCO.	The project owner shall submit any requests to both the District and CPM for approval as needed. The project owner shall submit any request or application for a new air permit or modification of any existing air permit to the CPM within five working days of its submittal. This includes proposed air permits and modifications either by: 1) the project owner to an agency, or 2) receipt of proposed modifications from an agency. The project owner shall submit all modified air permits to the CPM within 15 days of receipt (AQ-SC6).	NCUAQMD /CEC	Request or application for a new air permit or modification within 5 working days and receipt of modified air permits to CPM within 15 days.					Ongoing	
AQ-49	Ops	Knowing and willful misrepresentation of a material fact in the application for the Permit, or failure to comply with any condition of the Permit, or of the District Rules and Regulations, or any state or federal law, shall be grounds for revocation of this Permit.	No verification needed	NCUAQMD /CEC						Ongoing	
AQ-50	Ops	Permittee shall not construct, erect, modify, operate, or use any equipment which conceals the emission of an air contaminant, which would otherwise constitute a violation of the limitations of this Permit.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-51	Ops	This Permit does not convey any property rights of any sort, or any exclusive privilege.	No verification needed	NCUAQMD /CEC						Ongoing	
AQ-52	Ops	The "Right of Entry", as delineated in District Rule 109(A) and California Health and Safety Code Section 41510 of Division 26, shall apply at all times. Failure to grant immediate access to District, CARB, or other authorized personnel shall be grounds for permit suspension or revocation.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-53	Ops	The APCO reserves the right to amend this Permit in order to ensure compliance with all applicable Federal, State and Local laws, Rules and Regulations or to mitigate or abate any public nuisance. Such amendments may include requirements for additional operating conditions, testing, data collection, reporting and other conditions deemed necessary by the APCO.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request. The project owner shall submit all modified air permits to the CPM within 15 days of receipt (AQ-SC6).	NCUAQMD /CEC	All modified air permits to CPM within 15 days of receipt.					Ongoing	
AQ-54	Ops	If any provision or condition of this Permit is found invalid by a court of competent jurisdiction, such finding shall not affect the validity or enforcement of the remaining provisions.	No verification needed	NCUAQMD						Ongoing	
AQ-55	Ops	This Permit shall be posted in a conspicuous location at the site and shall be made available to District representatives upon request.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	

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AQ-56	Ops	The Permittee shall pay an annual permit fee and other fees as required in accordance with District Regulation IV. Failure to pay these fees will result in the forfeiture of this Permit. Operation without a permit subjects the source to potential enforcement action by the District. In the event of facility closure or change of ownership or responsibility, the new owner or operator shall be assessed and shall pay any unpaid fees.	The project owner shall submit an annual statement of compliance in the semi-annual operation report (AQ-SC9).	NCUAQMD	Semi-Annually					Ongoing	
AQ-57	Ops	This Permit is not transferable from either one location to another, from one piece of equipment to another, or from one person to another, except as provided herein. In the event of any change in control or ownership of the subject facility, the Permittee shall notify the succeeding owner of this Permit and its conditions; and shall notify the District of the change in control or ownership within fifteen (15) days of that change.	The project owner shall submit to both the District and CPM the notification within 15 days of the change in control or ownership (see also AQ-34, AQ-37 and COMPLIANCE-14).	NCUAQMD /CEC	Within 15 days of the change in control or ownership.					Ongoing	
AQ-58	Ops	A request for Transfer of Ownership of this Permit shall be submitted to the APCO prior to commencing any operation of the subject equipment and/or operations by any owner(s) and/or operator(s) not otherwise identified in this Permit.	The project owner shall submit to both the District and CPM the request for transfer of ownership before commencing operation by a previously unidentified owner and/or operator (see also AQ-34, AQ-37 and COMPLIANCE-14).	NCUAQMD	before new owner commences operation					Ongoing	Failure to file the Transfer of Ownership constitutes a separate and independent violation, and is cause for voiding this Permit. The burden of applying for a Transfer of Ownership is on the new owner(s) and/or operator(s). Any Permit transfer authorized pursuant to a transfer of ownership request shall contain the same conditions as this Permit
AQ-59	Ops	For purposes of this Permit, the terms identified in the Definition Section shall have the meaning set out in District Rule 101 and as defined in the definition section of this permit. In the event of any conflict between Rule 101 and the permit definitions, the definitions section of this permit shall prevail.	No verification needed	NCUAQMD						Ongoing	
AQ-60	Ops	This Permit does not authorize the emission of air contaminants in excess of those allowed by the federal Clean Air Act, California Health and Safety Code or the Rules and Regulations of the District. This Permit shall not be considered as permission to violate existing laws, ordinances, regulation or statutes of other governmental agencies.	No verification needed	NCUAQMD						Ongoing	
AQ-61	Ops	The Permittee shall not discharge such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public; or which endanger the comfort, repose, health or safety of any such persons or the public; or which cause or have a natural tendency to cause injury or damage to business or property.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request. The project owner shall submit all air quality complaints received to the CPM within 10 days (see COMPLIANCE-10).	NCUAQMD /CEC	Within 10 days of complaint receipt.					Ongoing	
AQ-62	Ops	The Permittee shall not discharge into the atmosphere from any source whatsoever any air contaminant which is in excess of twenty (20) percent opacity, or as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, calculated as a six minute average. Opacity observations shall be taken and recorded as described in EPA Reference Method 9.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request. The project owner shall submit all visible emission complaints received to the CPM within 10 days (see COMPLIANCE-10).	NCUAQMD /CEC	Within 10 days of complaint receipt.					Ongoing	
AQ-63	Ops	The handling, transporting, or open storage of material in such a manner which allows unnecessary amounts of particulate matter to become airborne shall not be permitted. Reasonable precautions shall be taken to prevent particulate matter from becoming airborne.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-64	Ops	All equipment regulated by this Permit shall at all times be maintained in good working order, and shall be operated as efficiently as possible so as to ensure compliance with all applicable emission limits. For purposes of compliance with this requirement, good working order, efficient operation, and proper maintenance shall mean the implementation of all protocols, procedures, and activities recommended by the device manufacturer or those required by this Permit.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	For purposes of compliance with this requirement, good working order, efficient operation, and proper maintenance shall mean the implementation of all protocols, procedures, and activities recommended by the device manufacturer or those required by this Permit.
AQ-65	Ops	RECORDS & TRAINING: The Permittee shall provide training and instruction to all affected contractor(s), subcontractor(s), and employee(s). Training shall include the identification of all the requirements contained within this Permit, and the appropriate method to be used to comply with the permit conditions. Training shall occur prior to any of the contractor(s), subcontractor(s), or employee(s) constructing or operating equipment authorized by this permit. Records documenting the persons receiving instruction and the instruction materials shall be made available to the APCO upon request.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	Records documenting the persons receiving instruction and the instruction materials shall be made available to the APCO upon request.
AQ-66	Ops	The Permittee shall furnish to the APCO any information that the District may request to determine compliance with this Permit or whether cause exists for modifying, revoking and reissuing, or terminating this Permit. Upon request, Permittee shall also furnish to the District copies of records required to be kept by this Permit. The information and records shall be submitted within the time period determined by the APCO.	The project owner shall submit to both the District and CPM the compliance information as needed.	NCUAQMD /CEC	Upon request					Ongoing	
AQ-67	Ops	The Permittee shall record the following information in the event of an equipment breakdown or malfunction of Authorized Equipment which creates, causes, or results in a violation any emission limitation or restriction prescribed by District Rules or State law: date and time of event; event duration; a description of event; the cause of the event; what corrective measures were taken, including what actions were taken to prevent re-occurrence; if corrective actions were unsuccessful, what additional measures should be taken in the future; and the quantity of excess emissions released during the event. The Permittee shall report the information listed above to the District within 10 days of when the breakdown event was corrected. If the Permittee reports the event to the District within one hour of its detection pursuant to Rule 105(E)(2), the APCO may elect to not take enforcement action if the requirements of Rule 105(E) are satisfied.	The project owner shall submit all required notifications and reports to the APCO and CPM within the timeframes outlined above. The project owner shall also report all emergency events in the semi-annual operation reports.	NCUAQMD /CEC						Ongoing	
AQ-68	Ops	PERMIT TERM: The Title V permit expiration terminates the Permittee's right to operate the stationary sources itemized in this permit unless a timely and complete Title V permit application for renewal has been submitted in accordance with District Regulation V Rule 502(B)(2), in which case the existing Title V permit will remain in effect until the Title V permit renewal has been issued or denied.	No verification needed							Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-69	Ops	AUTHORIZED EQUIPMENT: This permit authorizes the operation of the equipment and specific components listed in Table 1 and 2. For each of the reciprocating internal combustion engines S-1 through S-10, both a Selective Catalytic Reduction system (SCR) and an oxidation catalyst are authorized and shall be designated "A-(engine number) SCR" and "B-(engine number) oxidation catalyst respectively". [Table 1 - Authorized Emission Devices (Humboldt Bay Generating Station)]	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-70	Ops	The Permittee shall not modify reciprocating engines S-1 through S-10 in such a manner so as to exceed the Heat Input Capacities, or deviate from the nominal full-load design specifications as submitted in the AFC, and as identified in Table 3. Further, Natural Gas Mode heat input shall be the sum of the Higher Heating Values of the natural gas and diesel supplied. The diesel pilot heat input (total diesel supplied) for each engine shall not exceed 2.0 MMBtu/hr calculated on a three hour rolling average basis. [Table 3 - Specifications for Engines S-1 through S-12]	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-71	Ops	The Permittee shall only fire reciprocating engines S-1 through S-10 with fuel which meets or exceeds the fuel specifications identified in Tables 4. Prior to firing reciprocating engines S-1 through S-10 with an Alternative Fuel or CARB Diesel with additives, the Permittee shall make a request to the APCO to switch fuel types. The request shall include all necessary information to characterize emission changes which may occur as a result of the change. The Permittee shall not fire reciprocating engines S-1 through S-10 with a liquid fuel other than CARB Diesel without prior approval from the APCO. [Table 4 - Fuel Specifications for Engines S-1 through S-10]	The project owner shall submit all requests to switch fuel types to the APCO and CPM for approval prior to switching fuel types in reciprocating engines S-1 through S-10. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational report (AQ-SC9).	NCUAQMD	Upon request					Ongoing	
AQ-72	Ops	Reciprocating engines S-1 through S-10 shall be equipped with a monitoring system capable of measuring and recording hours of operation (in tenths of an hour) and fuel consumption (in cubic feet and gallons) while operating in natural gas mode and diesel mode. The measuring devices shall be accurate to plus or minus 1% at full scale, and shall be tested/calibrated at least once every twelve months for natural gas fuel meters, and once every 24 months for diesel fuel flow meters. Measuring devices shall be tested/calibrated at more frequent intervals if necessary to ensure compliance with the 1% accuracy requirement.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request. The project owner shall submit records indicating the fuel monitoring system measuring devices are calibrated according to the schedule outlined above in the semi-annual operation report (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-73	Ops	The exhaust stacks shall not be fitted with rain caps or any other similar device which would impede vertical exhaust flow.	The project owner shall make the site available for inspection by representatives of the District, ARB, and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-74	Ops	The Permittee shall install and maintain a non-resettable hour meter with a minimum display capability of 9,999 hours upon the Emergency IC Diesel Engines S-11 and S-12.	The project owner shall make the site available for inspection by representatives of the District, ARB, and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-75	Ops	75. The Emergency IC Diesel Engines S-11 and S-12 shall use one of the following fuels: a. CARB Diesel Fuel, or b. An alternative diesel fuel that meets the requirements of the Verification Procedure (as codified in CCR Title 13 Sections 2700-2710), or c. CARB Diesel Fuel used with fuel additives that meets the requirements of the Verification Procedure (as codified in CCR Title 13 Sections 2700-2710), or d. Any combination of a) through c) above.	The project owner shall make the site and fuel records available for inspection by representatives of the District, ARB, and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-76	Ops	The Permittee shall install and maintain exhaust gas temperature monitoring devices at the inlet and the outlet of the oxidation catalyst.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-77	Ops	Ammonia injection points shall be equipped with operational ammonia flow meters and injection pressure indicators. The flow meters shall be accurate to plus or minus 1% at full scale and shall be tested/calibrated at least once every twelve months, or at more frequent intervals if necessary to ensure compliance with the 1% requirement.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request. The project owner shall submit records indicating the ammonia flow meter devices are calibrated according to the schedule outlined above in the semi-annual operation report (AQ-SC9).	NCUAQMD /CEC	every 12 months or more if necessary					Ongoing	
AQ-78	Ops	The Permittee shall install points of access to the Emission Devices, Control Devices, and Continuous Emission Monitoring Devices such that source testing in accordance with the appropriate reference test methods can be performed. All points of access shall conform to the latest Cal-OSHA safety standards.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	For purposes of compliance with this part, appropriate test methods shall mean the test methods identified in the Testing and Compliance Monitoring Conditions section of this Permit; and the collection of gas samples with a portable NO <sub>x</sub> , CO, and O <sub>2</sub> analyzer. Sample collection ports shall be located in accordance with 40 CFR Part 60 Appendix A, and with the CARB document entitled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing.
AQ-79	Ops	Each reciprocating engine S-1 through S-10 shall be equipped with a continuous emission monitor (CEM) for NO <sub>x</sub> , CO, and O <sub>2</sub> . Continuous emissions monitor(s) shall meet the requirements of 40 CFR part 60, Appendices B and F, and District-approved protocol during normal operations. The monitors shall be designed and operated so as to be capable of monitoring emissions during normal operating conditions and during Startup and Shutdowns Periods.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-80	Ops	The Permittee shall demonstrate compliance with the ammonia slip limit by using the following calculation procedure: The ammonia injection rate to each SCR control system shall be continuously recorded. Correlations between the engine heat input rates, the SCR system ammonia injection rates, and corresponding ammonia emission concentration shall be determined for each fuel in accordance with the Testing and Compliance Monitoring Section of this Permit. Alternatively, the Permittee may be required to install, operate and maintain a continuous in-stack emissions monitor for emissions of ammonia. The Permittee shall obtain APCO approval for the installation and use the ammonia CEMs equipment at least 60 days prior to the planned installation date.	The project owner shall submit ammonia slip calculations demonstrating compliance with ammonia slip limits (AQ-91, -92, -94, 96 and -98).	NCUAQMD						Ongoing	
AQ-81	Ops	The Permittee shall not discharge particulate matter into the atmosphere from any combustion source in excess of 0.20 grains per cubic foot of dry gas calculated to 12 percent CO <sub>2</sub> at standard conditions.	The project owner shall submit the results of source tests to both the District and CPM in accordance with condition AQ-137.	NCUAQMD /CEC						Ongoing	
AQ-82	Ops	The Permittee shall not discharge sulfur dioxide into the atmosphere from reciprocating engines S-1 through S-12 such in excess of 1000 ppmv for any single device or more than 40 tons per year as a combination of all devices.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and Energy Commission upon request. The project owner shall submit the results of source tests to both the District and CPM in accordance with condition AQ-137.	NCUAQMD /CEC						Ongoing	
AQ-83	Ops	Visible emissions from reciprocating engines S-1 through S-12 shall not be as dark or darker in shade as that designated as No. 1 on the Ringleman Chart, or of such opacity so as to obscure an observer's view to a degree equal to or greater than 20%, for any period or periods aggregating more than 3 minutes in any one hour.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request. The project owner shall submit all visible emission complaints received to the CPM within 10 days (see COMPLIANCE-10).	NCUAQMD /CEC						Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-84	Ops	The Permittee shall not operate reciprocating engines S-1 through S-12 such that the emissions of NOx, from a combination of all engines, exceeds 392 lbs per hour. Furthermore, the Permittee shall not operate reciprocating engines S-1 through S-10 such that more than 2 units are in a Diesel Startup Period during any one Clock Hour.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	Upon written approval by the District of the alternative compliance demonstration method, the permit limitation on the number of Diesel Mode Startups may be modified. In no event shall the facility wide hourly limit of 392 lbs of NOx be increased, nor any operational activities permitted, which would allow an exceedance of any emission limitation.
AQ-85	Ops	The Permittee shall not discharge diesel particulate matter from reciprocating engines S-1 through S-10 while operating in Diesel Mode such that emissions of Diesel Particulate Matter exceed 0.11 g/bhp-hr for each engine.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and Energy Commission upon request. The project owner shall submit the results of source tests to both the District and CPM in accordance with condition AQ-137.	NCUAQMD /CEC						Ongoing	
AQ-86	Ops	The Permittee shall not discharge Carbon Monoxide from reciprocating engines S-1 through S-10 in excess of 0.14 g/bhp-hr or 20 ppm @ 15% O2.	The project owner shall submit the results of source tests to both the District and CPM in accordance with condition AQ-137159. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational report (AQ-SC9).	NCUAQMD /CEC	1) See AQ-164; 2) in SOR					Ongoing	
AQ-87	Ops	The Permittee shall not operate reciprocating internal combustion engines S-1 through S-10 in such a manner so as to exceed the heat input capacities listed in Table 5 on a per engine basis. Further, the Permittee shall not operate S-1 through S-10 such that diesel pilot heat input per engine exceeds 2.0 MMBtu/hr on a rolling three hour average basis. [Table 5 - Heat Input Limitations Per Engine]	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-88	Ops	The Permittee shall not operate reciprocating internal combustion engines S-1 through S-10 in such a manner so as to exceed the heat input capacities listed in Table 6 below calculated as a sum of all 10 engines. Further, while operating in Natural Gas Mode, the percentage of heat input derived from diesel shall not exceed 5% on an annual basis (calendar year).	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-89	Ops	The Permittee shall not exceed the diesel fuel firing limits while operating reciprocating engines S-1 through S-10 in the modes listed in Tables 7 and 8 below. [Table 7 - Diesel Fuel Firing Limitations (Pilot)] [Table 8 - Diesel Fuel Firing Limitations]	All Diesel Mode and Natural Gas Mode operation fuel consumption, diesel and natural gas consumption, and hours of operation, including operations consuming both above and below 500 gallons, shall be listed separated by operation mode and reported in the semi-annual reports, and the second semiannual report shall also include the fuel use totals reported in the first semi-annual report and summed annual totals. The total number of hours operating in Diesel Mode and Natural Gas Mode shall be provided per engine in the semi-annual reports. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9). The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-90	Ops	The Permittee shall not operate reciprocating engines S-1 through S-10, such that they individually discharge pollutants exceeding the limits identified in Table 9 below during Startup or Shutdown Periods. [Table 9 - Start & Shutdown Period Emission Limits]	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC						Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-91	Ops	The Permittee shall not operate reciprocating engines S-1 through S-10, such that they individually discharge pollutants exceeding the limits identified in Table 10 below based upon a three (3) hour rolling average with the exception of NOx which shall be based upon a one (1) hour average. The limits shall not apply during Startup or Shutdown Periods. [Table 10 - Natural Gas Mode Emission Limits]	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-92	Ops	The combined discharge of pollutants, from the reciprocating engines S-1 through S-10 shall not exceed the limits listed in Table 11 below during any Calendar Day in which none of the engines are operated in Diesel Mode for any period of time. For purposes of compliance with this condition, the emissions from Startup and Shutdown Periods shall be included in the daily calculation of emissions.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-93	Ops	Reserved									
AQ-94	Ops	The Permittee shall not discharge pollutants into the atmosphere from the reciprocating engines S-1 through S-10 while in Diesel Mode, based upon a three (3) hour rolling average, in excess of the emission limits identified in Table 12 below. The limits shall not apply during Startup or Shutdown Periods. [Table 12 - Diesel Mode Emission Limits]	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-95	Ops	The discharge of Diesel Particulate Matter into the atmosphere from the reciprocating engines S-1 through S-10 while in Diesel Mode shall not exceed the emission limits identified in Table 13 below. [Table 13 - Diesel Particulate Matter Limitations]	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-96	Ops	The combined discharge of pollutants from the reciprocating engines S-1 through S-10 shall not exceed the limits listed in Table 14 below during any Calendar Day in which one or more of the engines are operated in diesel mode for any period of time. [Table 14 - S-1 Through S-10 Combined Diesel Mode Daily Limits]	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-97	Ops	Reserved									
AQ-98	Ops	The combined discharge of pollutants from the reciprocating engines S-1 through S-10 during any calendar year shall not exceed the limits listed in Table 15 below. [Table 15 - S-1 Through S-10 Combined Annual Emission Limits]	The project owner shall annually submit to the CPM and APCO the annual operational reports that include monitoring and compliance results in the semiannual operation report (AQ-SC9 and AQ-17).	NCUAQMD /CEC						Ongoing	
AQ-99	Ops	The Permittee shall not operate engines S-11 and S-12 such that pollutant discharge into the atmosphere exceeds the quantities in Table 16 below. [Table 16 - Engines S-11 and S-12 Emission Limits]	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC						Ongoing	
AQ-100	Ops	The combined discharge of pollutants from the engines S-11 through S-12 during any calendar year shall not exceed the limits listed in Table 17 below. [Table 17 - S-11 and S-12 Combined Annual Emission Limits]	The project owner shall annually submit to the CPM and APCO include monitoring and compliance results in the semiannual operation report (AQ-SC9 and AQ-17).	NCUAQMD /CEC						Ongoing	
AQ-101	Ops	In the event of an excess emission incident, regardless of the cause, the Permittee shall take immediate corrective action to minimize the release of excess emissions. Notice shall be provided to the District as indicated in the Reporting and Recordkeeping Section of this Permit. For purposes of compliance with this condition, excess emissions shall mean discharge of pollutants in quantities which exceed those authorized by Federal, State, District Rules, and this Permit.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-102	Ops	All equipment listed in Table 1 Authorized Emission Devices and Table 2 Authorized Control Devices shall be operated and maintained by the Permittee in accordance with manufacturer's specifications for optimum performance; and in a manner so as to minimize emissions of air contaminants into the atmosphere.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and the Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-103	Ops	The Permittee shall implement and maintain a written Startup, Shutdown, and Malfunction Plan as described in 40 CFR 63.6(e) (3) which contains specific procedures for maintaining the reciprocating engines S-1 through S-12, their associated control devices, their associated CEMS, sensors, measuring devices, and their associated exhaust gas duct work, during periods of startup, shutdown, and malfunction. The plan must clearly describe the startup and shutdown sequence procedure for each unit. The Plan shall also include a specific program of corrective actions to be implemented in the event of a malfunction in either the process or control systems. Modifications to the Plan are subject to APCO approval and the Permittee shall not operate the reciprocating engines S-1 through S-12 and their associated control devices unless a District approved Startup, Shutdown, and Malfunction Plan is in effect.	The project owner shall submit modifications to the plan to the District for approval and shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-104	Ops	The Permittee shall develop, implement and maintain a written Device Operational Plan that contains specific procedures for operating the reciprocating engines S-1 through S-12, their associated control devices, their associated CEMS, sensors, measuring devices, and their associated exhaust gas duct work under the varying load conditions which may occur during normal modes of operation. The Plan shall also include specific protocols to be followed when transitioning between modes of operation. This plan shall be consistent with the requirements of this Permit, and all local, state and federal laws, rules, and regulations. The plan shall include, but not be limited to, daily system integrity inspections and the recording of operational parameters. The Plan is subject to APCO approval. The Permittee shall not operate the reciprocating engines S-1 through S-12 and their associated control devices unless a District approved Device Operational Plan is in effect.	The project owner shall submit modifications to the plan to the District for approval and shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-105	Ops	The Permittee shall develop, implement and maintain a written Device Maintenance & Replacement Plan that contains specific procedures for equipment maintenance and identifies replacement intervals for components of the reciprocating engines S-1 through S-12, their associated control devices, their associated CEMS, sensors, measuring devices, and their associated exhaust gas duct work. The Plan is subject to APCO approval. The Permittee shall not operate the reciprocating engines S-1 through S-12 and their associated control devices unless a District approved Device Maintenance & Replacement Plan is in effect.	The project owner shall submit modifications to the plan to the District for approval and shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-106	Ops	The Permittee shall only operate the Reciprocating engines S-1 through S-10 in Natural Gas Mode except during Maintenance and Testing, and during Natural Gas Curtailments as set forth in this permit.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-107	Ops	The Permittee shall not operate reciprocating engines S-1 through S-10 such that Startup Periods exceed 60 minutes in length.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-108	Ops	The Permittee shall not operate reciprocating engines S-1 through S-10 such that Shutdown Periods exceed 30 minutes in length.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-109	Ops	The Permittee shall not operate the reciprocating engines S-1 through S-10 such that the combined hours of operation during Startup and Shutdown Periods exceeds 30 engine-hours per day.	A summary of combined engine-hours of operation during startup and shutdown periods shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-110	Ops	The Permittee shall not operate the reciprocating engines S-1 through S-10 such that the combined hours of operation during Startup and Shutdown Periods exceeds 3,650 engine-hours per calendar year. Of the 3,650 engine hours available hours, the hours of operation during Startup and Shutdown Periods in Diesel Mode shall not exceed 500 engine-hours per calendar year.	A summary of combined engine-hours of operation during startup and shutdown periods and startup and shutdown periods in Diesel Mode shall be included in the semi-annual operational report (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-111	Ops	The Permittee shall not operate any of the reciprocating engines S-1 through S-10 below 50% load except during Startup and Shutdown Periods.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-112	Ops	The Permittee shall not operate the reciprocating engines S-1 through S-10 for more than 80 engine-hours per Calendar Day at loads less than 12.0 MW.	A summary of total engine-hours per calendar day at loads less than 12.0 MW per engine based on readings taken every 15 minutes shall be included in the semi-annual operation report (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-113	Ops	While operating the reciprocating engines S-1 through S-10 in Diesel Mode, the Permittee shall fire the engines: a. Only with CARB Diesel as specified in Table 3 Fuel Specifications for S-1 through S-10; b. For not more than 50 hours per year for maintenance and testing per engine; and c. Such that the combined engine operating hours do not exceed 1,000.0 engine hours per year on a 365 day rolling average basis.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-114	Ops	For each Oxidation Catalyst installed, during the performance testing required pursuant to the Testing and Monitoring Section of this Permit, the Permittee shall determine the pressure drop across each catalyst. The Permittee shall operate the reciprocating engines S-1 through S-10 such that the pressure drop across the catalyst does not exceed the following acceptable range for any period of time: The acceptable pressure range is two inches of water column (plus or minus 10%) deviation from the pressure drop established during performance testing. This Condition shall not apply during Startup or Shutdown Periods.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-115	Ops	The Permittee shall not operate reciprocating engines S-1 through S-10 if the inlet temperature of the oxidation catalyst is outside of the acceptable operating range for any period of time. The acceptable operating range of the oxidation catalyst is greater than or equal to 450 °F and less than or equal to 1350 °F. Each reciprocating engine is paired with a single oxidation catalyst unit. For purposes of compliance with this condition, each engine and catalyst pair is evaluated separately. This Condition shall not apply during Startup or Shutdown Periods.	A summary of significant operation and maintenance events and monitoring records required (AQ-128) shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-116	Ops	The Permittee shall not operate reciprocating engines S-1 through S-10 unless the CO emissions from the units are abated by the oxidation catalyst at a rate greater than or equal to 70% over uncontrolled emission levels, calculated on a 3 hour rolling average. Verification of the emissions reduction shall be completed in accordance with 40 CFR 63 Subpart ZZZZ.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-117	Ops	The Permittee shall not operate engines S-11 and S-12 for the purpose of maintenance and testing, within the same Calendar Day.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	Title V Condition 112 revised to calendar day instead of 24-hour period

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-118	Ops	The Permittee shall not operate engines S-11 and S-12, for the purpose of maintenance and testing, in excess of the hour limits listed in Table 18 below. [Table 18 - S-11 and S-12 Hourly Operating Limits]	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-119	Ops	The Permittee shall not operate the engines S-11 and S-12, for the purpose of maintenance and testing, when any of the reciprocating engines S-1 through S-10 are operating in diesel mode.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-120	Ops	The Permittee shall not operate reciprocating engine S-11, for the purpose of maintenance and testing, for more than 45 minutes in any Clock Hour.	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-121	Ops	The Emergency IC Diesel Generators S-11, and S-12 shall use one of the following fuels: a. CARB Diesel Fuel, or b. An alternative diesel fuel that meets the requirements of the Verification Procedure (as codified in CCR Title 13 Sections 2700-2710), or c. CARB Diesel Fuel used with fuel additives that meets the requirements of the Verification Procedure (as codified in CCR Title 13 Sections 2700-2710), or d. Any combination of a) through d) above.	The project owner shall make the site and fuel records available for inspection by representatives of the District, ARB, and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-122	Ops	The Emergency IC Diesel Generators S-11, and S-12 are authorized the following maximum allowable annual hours of operation as listed in Table 19 below. [Table 19 - Hours of Operation for Emergency IC Diesel Generators S-11 & S-12]	A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational report (AQ-SC9) and AQ-127 reporting.	NCUAQMD /CEC	in SOR					Ongoing	
AQ-123	Ops	The Permittee shall report all occurrences of breakdowns of the equipment listed in Table 1 Authorized Emission Devices or Table 2 Authorized Control Devices which result in the release of emissions in excess of the limits identified in this Permit. Said report shall be submitted to the District in accordance with the timing requirements of District Rule 105(E).	The project owner shall submit all breakdown notifications and reports to the CPM in the semi annual and annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-124	Ops	The Permittee shall maintain a Breakdown log that describes the breakdown or malfunction, includes the date and time of the malfunction, the cause of the malfunction, corrective actions taken to minimize emissions and the date and time when the malfunction was corrected.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-125		The Permittee shall immediately record the following information when an event occurs where emissions from the equipment listed in Table 1 Authorized Emission Devices are in excess of any limits incorporated within this permit: a. Date and time of the excess emission event, b. Duration of the excess emission event, c. Description of the condition or circumstance causing or contributing to the excess emission event, d. Emission unit or control device or monitor affected, e. Estimation of the quantity and type of pollutants released, f. Description of corrective action taken, and g. Actions taken to prevent reoccurrence of excess emission event.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	1) immediately, if occurs; 2) in SOR					Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-126		The Permittee shall provide to the District, a completed "Compliance Certification" form signed by the Facility's Responsible Official which certifies the compliance status of the facility twice per calendar year. The compliance certification forms (VK series) must be submitted to the District according to the following schedule: The semiannual certification (covering quarters 1 and 2) must be submitted prior to July 31st of the reporting year; and the annual certification (covering quarters 1, 2, 3, and 4) prior to March 1st of the following calendar year. The content of the Annual Certification shall include copies of the records designated in Table 19 to be kept "Annually".	A copy of the signed "Compliance Certification"	NCUAQMD	1) Prior July 31st of reporting year; 2) prior March 1st of following calendar year					Ongoing	
AQ-127		The Permittee shall maintain a log of usage for the Emergency IC Diesel Generators S-11 and S-12 in accordance with applicable Reporting Requirements for Emergency Standby Engines, Item (e)(4)(I) of Section 93115, Title 17, California Code of Regulations, Air Toxic Control Measure (ATCM) for Stationary Compression Ignition (CI) engines. The log of usage shall list and document the nature of use for each operational event category listed in AQ-127 by recording the beginning and ending hour meter readings and time of day of each operational event. See AQ-127 for list of categories.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and Energy Commission upon request. The log of operational events including AQ-127 subparts A through E requirements, A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-128	Ops	The Permittee shall continuously maintain onsite for the most recent five year period and shall be made available to the District APCO upon request, the records as listed in Table 20 below. [Table 20 - Required Records for Engines S-1 through S-10]	The project owner shall make the site and records available for inspection by representatives of the District, ARB and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-129	Ops	For each Quarter, the Permittee shall submit a written report to the APCO detailing the following items for the operation of the CEMS. The report shall conform to the requirements of District Rules and Regulations Appendix B, Section 2.2, and shall be submitted within 30 days of the end of the quarter. a. Time intervals; b. Date and magnitude of excess emissions; c. Nature and cause of excess (if known); d. Corrective actions taken and preventive measures adopted; e. Averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; f. Applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and g. A negative declaration when no excess emissions occurred.	The project owner shall submit the CEMS quarterly monitoring reports to the CPM and APCO quarterly as required by the condition, and shall submit the CEMS quarterly monitoring reports to the CPM in the semi-annual operation reports (AQ-SC9).	NCUAQMD /CEC	Quarterly within 30d of end of quarter					Ongoing	
AQ-130	Ops	The Permittee shall provide notification and record keeping as required pursuant to 40 CFR, Part 60, Subpart A, 60.7.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and Energy Commission upon request.	NCUAQMD /CEC	1) by March 1st of following calendar year; 2) In Annual Operational Report					Ongoing	
AQ-131	Ops	The Permittee shall annually prepare and submit a comprehensive facility wide emission inventory report for all criteria pollutants and toxic air contaminants emitted from the facility. The inventory and report shall be prepared in accordance with the most recent version of CARB and California Office of Health Hazard Assessment guidance documents. The inventory report shall be submitted to the District APCO no later than March 1st of the following calendar year. The inventory report is subject to District APCO approval.	The project owner shall annually submit the inventory report to the CPM and APCO (AQ-SC9 and AQ-17).	NCUAQMD /CEC	within 24 hours after determining diesel mode operation is to occur					Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-132	Ops	Not later than 24 hours after determining that diesel mode operation is to occur as a result of an expected Natural Gas Curtailment, the Permittee shall notify the APCO by telephone, email, electronic page, or facsimile. The notification shall include, but not be limited to, the following: a. The anticipated start time and duration of operation in diesel mode under the Natural Gas Curtailment; and b. The anticipated quantity of Diesel fuel expected to be burned under the Natural Gas Curtailment.	The project owner shall submit to both the District and CPM the notification within 24 hours after determining that Diesel Mode operation is to occur.	NCUAQMD /CEC	within 24 hours after determining diesel mode operation is to occur					Ongoing	
AQ-133	Ops	Not later than 24 hours following the end of a period of any diesel mode operation, the Permittee shall notify the APCO by email or facsimile of the following: a. The actual start time and end time of the period of diesel mode operation; b. The identification of the Reciprocating engines that were operated and the average load at which each reciprocating engine was operated on Diesel fuel during the diesel mode operating period; and c. The actual quantity of Diesel fuel consumed during the diesel mode operation.	The project owner shall submit to both the District and CPM the notification within 24 hours after the end of Diesel Mode operation. The project owner shall submit to the CPM notification within 24 hours after the end of any Diesel Mode operation if any single engine consumed greater than 500 gallons. The project owner shall submit the total quantity of diesel fuel actually used for the prior six-month and twelve-month period in the semi-annual operation reports. The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request.	NCUAQMD /CEC	within 24 hours following end of diesel mode period					Ongoing	
AQ-134	Ops	The Permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment for reciprocating engines S-1 through S-10 in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F.	The project owner shall make the site and records available for inspection by representatives of the District, ARB and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
AQ-135	Ops	The Permittee shall monitor and record exhaust gas temperature at the inlet and at the outlet of the oxidation catalyst.	A summary of significant operation and maintenance events and monitoring records required (AQ-128) shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-136	Ops	Not less than thirty days prior to the date of any source test required by this Permit, the Permittee shall provide the District APCO with written notice of the planned date of the test and a copy of the source test protocol.	The project owner shall submit the proposed protocol for the source tests 30 days prior to the proposed source test date to both the District and CPM for approval.	NCUAQMD /CEC	30d prior proposed source testing					Ongoing	
AQ-137	Ops	Source test results shall be summarized in a written report and submitted to the District APCO directly from the independent source testing firm on the same day, the same time, and in the same manner as submitted to Permittee. Source Test results shall be submitted to the District APCO no later than 60 days after the testing is completed.	The project owner shall submit source test results no later than 60 days following the source test date to both the District and CPM.	NCUAQMD /CEC	1) directly from source testing firm; 2) 60d following source test date					Ongoing	
AQ-138	Ops	The Permittee shall demonstrate compliance with the Natural Gas Mode emission limits via source testing conducted in accordance with the Test Methods listed below. For purposes of compliance with this condition, testing shall be conducted while the engines are operated in Natural Gas Mode, and shall be conducted at the intervals and at the operating loads specified in Condition #139. Alternative test methods may be approved by the APCO. <b>Parameters and Methods listed in AQ-138</b>	The project owner shall submit the proposed protocol for the source tests 30 days prior to the proposed source test date to both the District and CPM for approval. The project owner shall notify the District and CPM no later than 7 days prior to the proposed source test date and time. The project owner shall submit source test results no later than 60 days following the source test date to both the District and CPM.	NCUAQMD /CEC	1) 30d prior test date; 2) 7d prior proposed test date; 3) within 60d following testing					Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-139	Ops	To demonstrate compliance with the Natural Gas Mode emission limits, reciprocating engines S-1 through S-10 shall be tested on a rotating basis where each engine is: 1) Tested each year; 2) Tested while operating at one of the designated operating loads; and 3) Tested at all three operating loads with a three year period. The designated operating loads, plus or minus 2.5%, shall be 52.5%, 75%, and 95%. The APCO may waive some or all of the testing requirements if the results of previous compliance tests have demonstrated compliance with permitted emission limits by a sufficient margin.	The project owner shall submit the proposed protocol for the source tests to both the dDistrict and CPM for approval in accordance with condition AQ-136.	NCUAQMD /CEC	See AQ-136					Ongoing	
AQ-140	Ops	The Permittee shall demonstrate compliance with the Diesel Mode emission limits via source testing conducted in accordance with the Test Methods listed below. For purposes of compliance with this condition, testing shall be conducted while the engines are operated in Diesel Mode, and shall be conducted at the intervals and at the operating loads specified in Condition #141. Alternative test methods may be approved by the APCO. <b>Parameters and Methods listed in AQ-140.</b>	The project owner shall submit the proposed protocol for the source tests 30 days prior to the proposed source test date to both the dDistrict and CPM for approval. The project owner shall notify the District and CPM no later than 7 days prior to the proposed source test date and time. The project owner shall submit source test results no later than 60 days following the source test date to both the District and CPM.	NCUAQMD /CEC	1) 30d prior test date; 2) 7d prior proposed test date; 3) within 60d following testing					Ongoing	
AQ-141	Ops	To demonstrate compliance with the Diesel Mode emission limits, reciprocating engines S-1 through S-10 shall be tested on a rotating basis pursuant to Condition #140 where each engine is: 1) Tested while operating in Diesel Mode once every five years or following each 200 hours of operation of an individual engine in Diesel Mode whichever is sooner; 2) Tested while operating at one of the designated operating loads; and 3) Tested at all three designated operating loads with a 15 year period. The designated operating loads, plus or minus 2.5%, shall be 52.5%, 75%, and 95%. In addition, within 30 days of returning an engine to service after the completion of repair or maintenance activities, the Permittee shall conduct RATA testing on the affected engine's CEMs components. RATA testing shall be conducted in accordance with the applicable requirements of 40 CFR 60, Appendix B. The specific repair and maintenance activities triggering the RATA testing requirement shall be identified in the Facility's Device Maintenance & Replacement Plan. The APCO may waive some or all of the testing requirements if the results of previous compliance tests have demonstrated compliance with permitted emission limits by a sufficient margin.	The project owner shall submit the proposed protocol for the source tests to both the District and CPM for approval in accordance with condition AQ-136.	NCUAQMD /CEC	See AQ-136					Ongoing	
AQ-142	Ops	The Permittee shall demonstrate compliance with the hourly, daily, and annual ROC emission limits through the use of valid CO CEM data and the ROC/CO relationship determined by annual CO and ROC source tests; and APCO approved emission factors and methodology.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-143	Ops	The Permittee shall demonstrate compliance with the hourly, daily, and annual SOx emission limits for reciprocating engines S-1 through S-10 through the use of valid fuel use records, natural gas sulfur content, diesel fuel sulfur content, mass balance calculations; and APCO approved emission factors and methodology. The natural gas sulfur content shall be determined on a monthly basis using ASTM D3246.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-144	Ops	The Permittee shall demonstrate compliance with the hourly, daily, and annual PM emission limits, and the diesel particulate matter emission limits, for reciprocating engines S-1 through S-10 through the use of valid fuel use records, source tests, and APCO approved emission factors and methodology.	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request. A summary of significant operation and maintenance events and monitoring records required shall be included in the semi-annual operational reports (AQ-SC9).	NCUAQMD /CEC	in SOR					Ongoing	
AQ-145	Ops	Relative accuracy test audits (RATAs) shall be performed on each CEMS for reciprocating engines S-1 through S-10 at least once every twelve months, in accordance with the requirements of 40 CFR 60, Appendix B. Calibration Gas Audits of continuous emission monitors for reciprocating engines S-1 through S-10 shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with EPA guidelines. The District shall be notified in writing at least 30 days in advance of the scheduled date of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District within 60 days after the testing was performed.	The project owner shall submit to the CPM and APCO the quarterly compliance reports and results of relative accuracy test audits (RATAs) as updates to the semi-annual operation reports monitoring results (AQ-SC9).	NCUAQMD /CEC	1) within 30d in advance of audits; 2) within 60d after tests performed					Ongoing	
AQ-146	Ops	Reserved								Ongoing	
AQ-147	Post-Const/ Ops	The Permittee shall provide full funding for the purchase and installation of a new monitoring station (Shelter; CO, NOx, PM10/PM2.5, and other sampling equipment as determined by the APCO) to be installed at a location approved by the APCO. The funding shall include all costs associated with the purchase, installation, operation and maintenance (including personnel costs) of the monitoring station for an initial period of not less than five (5) years. PG&E shall reimburse the District for costs incurred within 30 days of receiving an invoice from the District. At the conclusion of that period, the APCO may extend the operation of the site if deemed in the best interest of the District, and PG&E will continue to fund all costs associated with its continued operation. The District shall manage the procurement, operation and maintenance of the site, and District staff will be responsible for collecting, securing, and quality assuring all data.	The project owner shall provide an annual statement of compliance in the semi-annual operation report (AQ-SC9). The statement of compliance shall include a status of the monitoring station. A copy of any payment submitted by the project owner in response to a District invoice shall be submitted to the CPM within 15 days of issuance.	NCUAQMD /CEC	1) No later than 180d after construction and concurrent with operations--within 30d of invoice; 2) with 15d of issuance					Ongoing	
AQ-148	Post-Const/ Ops	The Permittee shall provide full funding for the purchase and installation of a new meteorological monitoring station to be installed at a location approved by the APCO. The funding shall include all costs associated with the purchase, installation, operation and maintenance (including personnel costs) of the meteorological monitoring station for an initial period of not less than five (5) years. PG&E shall reimburse the District for costs incurred within 30 days of receiving an invoice from the District. At the conclusion of that period, the APCO may extend the operation of the site if deemed in the best interest of the District, and PG&E will continue to fund all costs associated with its continued operation. The District shall manage the procurement, operation and maintenance of the site, and District staff will be responsible for collecting, securing, and quality assuring all data. The data collected at the station shall meet the requirements of EPA-454/R-99-005 "Meteorological Monitoring Guidance for Regulatory Modeling Applications" February 2000.	The project owner shall provide an annual statement of compliance in the semi-annual operation report (AQ-SC9). The statement of compliance shall include a status of the monitoring station. certify providing the district full funding for the meteorological station. A copy of anyeach payment submitted by the project owner in response to a dDistrict invoice shall be submitted to the CPM within 15 days of issuance.	NCUAQMD /CEC	1) No later than 180d after construction and concurrent with operations--within 30d of invoice; 2) with 15d of issuance					Ongoing	

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
AQ-149	Post-Const/ Ops	The following equipment units and emissions are considered to be insignificant, and as such, are not required to obtain operating permits. However, these units and emission sources are required to comply with all applicable Federal and Local Enforceable Only general requirements and will be included in the facility's emission inventory. [Table 21 - Insignificant Sources]	The project owner shall make the site and records available for inspection by representatives of the District, ARB, and Energy Commission upon request.	NCUAQMD /CEC						Ongoing	
BIO-1	Ops	Designated Biologist: The project owner shall assign a Designated Biologist to the project.	If a Designated Biologist needs to be replaced, the specified info of proposed replacement must be submitted to the CPM at least ten working days prior to the termination or release of the preceding Designated Biologist.	N/A						Ongoing	In an emergency, the project owner shall immediately notify the CPM to discuss the qualifications and approval of a short-term replacement while a permanent Designated Biologist is proposed to the CPM for consideration.
BIO-2	Ops	Biologist Duties: The project owner shall ensure that the Designated Biologist performs the activities and duties outlined in BIO-2 during operation and closure activities.	1) If actions may affect biological resources during operation a Designated Biologist shall be available for monitoring and reporting. 2) During project operation, the Designated Biologist shall submit record summaries in the Annual Compliance Report unless his/her duties are ceased as approved by the CPM.	N/A	1) during Ops, if necessary; 2) in ACRs					Ongoing	
BIO-5	Ops	Worker Environmental Awareness Program (WEAP)– The project owner shall develop and implement a CPM-approved WEAP that informs each of its employees, as well as employees of contractors and subcontractors who work on the project site or any related facilities operation and closure, about sensitive biological resources associated with the project.	1) The signed training acknowledgement forms from construction shall be kept on file by the project owner for a period of at least six months after the start of commercial operation. 2) During project operation, signed statements for operational personnel shall be kept on file for six months following the termination of an individual's employment.	N/A	1) Kept for 6 months after construction; 2) Keep for 6 months following termination					Ongoing	
COM-5	Ops	Compliance Matrix–See Condition COMPLIANCE-5 for matrix requirements.	The project owner shall submit a compliance matrix (in spreadsheet format) and annual compliance report which includes the status of all compliance conditions of certification.	N/A	in ACRs during operation					Ongoing	Satisfied conditions do not need to be included in the compliance matrix after they have been identified as satisfied in at least one monthly or annual compliance report.
COM-7	Ops	Annual Compliance Reports (ACR)–See COMPLIANCE-7 for specific ACR requirements.	After construction ends and throughout the life of the project, the project owner shall submit Annual Compliance Reports. The reports are due to the CPM each year at a date agreed to by the CPM.	N/A	Annually on date agreed to by CPM					Ongoing	Annual Compliance Reports shall be submitted over the life of the project unless otherwise specified by the CPM.
COM-9	Ops	Annual Energy Facility Compliance Fee–see COMPLIANCE-9 for payment instructions.	The project owner is required to pay an annual compliance fee, which is adjusted annually. Payments are due by July 1 of each year the facility retains its certification.	N/A	July 1st of each year					Ongoing	
COM-10	Ops	Reporting of Complaints, Notices and Citations	In addition to the annual compliance reporting requirements described above, the project owner shall report and provide copies to the CPM of all complaint forms, including noise and lighting complaints, notices of violation, notices of fines, official warnings, and citations, within 10 days of receipt. Complaints shall be logged and numbered. Noise complaints shall be recorded on the form provided in the NOISE conditions of certification. All other complaints shall be recorded on the complaint form (Attachment A).	N/A	within 10d of receipt					Ongoing	
COM-11	Ops	Planned Facility Closure–See COMPLIANCE-11 for specific plan requirements. As necessary, the project owner shall take appropriate steps to eliminate any immediate threats to public health and safety and the environment, but shall not commence any other closure activities until the closure plan has been approved by the CEC.	The project owner shall submit a closure plan to the CPM at least 12 months prior to commencement of a planned closure.	N/A	At least 12 months prior planned closure					Complete/Ongoing	The project owner shall file 120 copies (or other number agreed upon by CPM) of the proposed facility closure plan. In the event that there are significant issues associated with the proposed facility closure plan's approval, or the desires of local officials or interested parties are inconsistent with the plan, the CPM shall hold one or more workshops and/or the Energy Commission may hold public hearings as part of its approval process.

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
COM-12	Ops	Updating Unplanned Temporary Closure/On-site Contingency Plan	1) In consultation with the CPM, update the on-site contingency plan as necessary. 2) In the ACR review the on-site contingency plan and recommend changes to bring the plan up to date. Any changes must be approved by the CPM. Also, status of insurance coverage and major equipment warranties must be updated. 3) In the event of an unplanned temporary closure, notify CPM and other responsible agencies, by telephone, fax, or e-mail, within 24 hours, and implement the on-site	N/A	1) as necessary; 2) in ACRs; 3) within 24 hours if unplanned closure					Complete/Ongoing	The approved plan must be kept on site at all times. The CPM may require revisions to the on-site contingency plan over the life of the project. If CPM determines that an unplanned temporary closure is likely to be permanent, or for a duration of more than 12 months, a closure plan consistent with the requirements for a planned closure shall be developed and submitted to the CPM within 90 days of the CPM's determination (or other period agreed to by the CPM).
COM-13	Ops	Unplanned Permanent Facility Closure/On-Site Contingency Plan--The on-site contingency plan required for unplanned temporary closure shall also cover unplanned permanent facility closure. All of the requirements specified for unplanned temporary closure shall also apply to unplanned permanent closure.	1) In the event of an unplanned permanent closure, the project owner shall notify the CPM, as well as other responsible agencies, by telephone, fax, or e-mail, within 24 hours and shall take all necessary steps to implement the on-site contingency plan. The project owner shall keep the CPM informed of the status of all closure activities. 2) A closure plan, consistent with the requirements for a planned closure, shall be developed and submitted to the CPM within 90 days of the permanent closure or another period of time agreed to by the CPM.	N/A	1) Within 24 hours of unplanned closure; 2) Within 90d of permanent closure or other approved date					Complete/Ongoing	In addition, the on-site contingency plan shall address how the project owner will ensure that all required closure steps will be successfully undertaken in the unlikely event of abandonment.
COM-14	Ops	Post-Certification changes to the Decision--See <b>COMPLIANCE-14 for important information about amendments and project changes.</b>	A petition is required for amendments and for insignificant project changes as specified in Condition COMPLIANCE-14. The project owner must petition the Energy Commission to delete or change a condition of certification, modify the project design or operational requirements and/or transfer operational control of the facility.	N/A						Ongoing	<u>It is the responsibility of the project owner to contact the CPM to determine if a proposed change should be considered a project modification. Implementation of a project modification without first securing Energy Commission, or Energy Commission staff approval, may result in enforcement action that could result in civil penalties.</u>
CUL-1	Post- Constr	The Cultural Resource Specialist (CRS) shall manage all monitoring, mitigation, curation and reporting activities required in accordance with the Conditions of Certification (Conditions). The CRS may elect to obtain the services of Cultural Resource Monitors (CRMs) and other technical specialists, if needed, to assist in monitoring, mitigation, and curation activities.	At least 10 days prior to a termination or release of the CRS, or within 10 days after the resignation of a CRS, the project owner shall submit the resume of the proposed new CRS to the CPM for review and approval.	N/A	10d prior release of CRS, if occurs;					Ongoing	Phase 2 Landscaping at the adjacent HBPP decommissioning project was conducted in accordance with the November 2008 Cultural Resources Monitoring and Mitigation Plan for the Humboldt Bay Repowering Project and the April 2016 Archaeological Resources Protection Plan for the Humboldt Bay Power Plant Final Site Restoration Plan. CRS Dimitra Zalarvis Chase and CRM Liz Hodges conducted the cultural resource monitoring.
CUL-2 and 3	Constr	Construction requirement								Ongoing	The CRS (Dimitra Zalarvis Chase) has been continuously supporting decommissioning activities. Cultural Resource Monitoring needs were determined on a week-by-week, and sometimes day-by-day discussions with Project Construction Managers and the onsite Environmental Coordinator. The area where grading and vegetation screening associated with VIS-5 occurred had previously been excavated and backfilled with clean backfill. All excavation and grading activities were done in coordination with the CRM and the decommissioning CRMP.
CUL-4	Post- Constr	The project owner shall submit the Cultural Resources Report (CRR) to the CPM for approval. The CRR shall be written by or under the direction of the CRS and shall be provided in the ARMR format. The CRR shall report on all field activities including any new surveys of borrow sites, and shall include dates, times and locations, findings, samplings, and analyses. All survey reports, Department of Parks and Recreation (DPR) 523 forms, and additional research reports not previously submitted to the California Historic Resource Information System (CHRIS) and the State Historic Preservation Officer (SHPO) shall be included as an appendix to the CRR.	1) Within 90 days after completion of ground disturbance (including landscaping), submit the CRR to CPM for review and approval. If any reports have previously been sent to the CHRIS, then receipt letters from the CHRIS or other verification of receipt shall be included in an appendix. 2) Within 90 days after completion of ground disturbance (including landscaping) provide copy of agreement with or other written commitment from a curation facility. 3) Within 10 days after CPM approval, the project owner shall provide documentation to the CPM confirming that copies of the CRR have been provided to the SHPO, the CHRIS, and the curating institution, if archaeological materials were collected.	SHPO, CHRIS, Curating institution	1) Within 90d after completion of ground disturbance; 2) Within 90d after completion of ground disturbance; 3) within 10d of CPM approval					Ongoing	No archaeological materials were collected during the landscaping of Trailer City (Phase 2 Landscaping).
CUL-5 to 9	Constr	Construction requirements								Ongoing	CUL-6 was followed for Phase 2 Landscaping. CRS confirmed no native soils were encountered during landscape screening planting activities.
CUL-10		Historic Property Mitigation Plan								Ongoing	Following plan as required.

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
CUL-11	Ops	If soils must be acquired from a non-commercial borrow site or disposed of to a non-commercial disposal site, the CRS shall survey the borrow and/or disposal site/s for cultural resources and record on DPR 523 forms any that are identified, unless less-than-five-year-old cultural resources surveys of these sites are submitted to and approved by the CPM.	1) As soon as determined a non-commercial borrow site and/or disposal site will be used, notify the CRS and CPM and provide documentation of precious archaeological survey, if any, dating within the past 5 years for CPM approval. 2) In absence of documentation of recent archaeological survey, at least 30 days prior to any soil borrow or disposal activities on the non-commercial borrow and/or disposal sites, the CRS shall survey the site/s for archaeological resources. The CRS shall notify the project owner and the CPM of the results of the cultural resources survey, with recommendations, if any, for further action.	N/A	1) as soon as determine non-commercial borrow or disposal site; 2) 30d prior any soil borrow or disposal activity on non-commercial site					Ongoing	No significant archaeological resources were encountered during the Phase 2 landscape screen planting activities.
ELEC-1	Ops	The electrical plans listed in ELEC-1 together with design changes and design change notices, shall remain on the site or another accessible location for the operating life of the project.	Plans to remain on site for the life of the project.	N/A						Ongoing	
GEN-8	Post-Const/ Ops	The project owner shall retain one set of approved engineering plans, specifications, and calculations at the project site or at an alternative site approved by the CPM during the operation of the project.	1) After storing final approved engineering plans, specifications and calculations as described above, submit to CPM a letter stating that documents have been stored and indicate the storage location. 2) Within 90 days of completion of construction, provide the CBO with three sets of electronic copies of the documents at the project owner's expense.**	CBO	1) after storing plans; 2) within 90d of completion of construction					In progress	
HAZ-1	Ops	The project owner shall not use any hazardous material, stored in amounts greater than 100 gallons as a liquid or 50 pounds as a solid, not listed in Appendix A of the Hazardous Materials Management section, or in greater quantities or concentrations than those identified by chemical name in Appendix A, unless notification is given to the Humboldt County Division of Environmental Health and approved not less than two (2) business days in advance by the Compliance Project Manager (CPM).	1) If required, notification is to be given to the Humboldt County Division of Environmental Health (DEH) and approved not less than two (2) business days in advance by the CPM. 2) Provide to the CPM, in the Annual Compliance Report, a list of hazardous materials and storage quantities contained at the facility.	Humboldt County DEH	1) Prior to changing chemicals-- must be approved 2d in advance; 2) In ACRs					Ongoing	
HAZ-8	Ops	Operations Security Plan. <b>See HAZ-8 for extensive requirements.</b>	1) In ACR include a statement that all current project employee and appropriate contractor background investigations have been performed, and updated certification statements are appended to the Operations Security Plan. Also, in ACR include a statement that the Operations Security Plan includes all current hazardous materials transport vendor certifications for security plans and employee background investigations. 2) The project owner shall fully implement the security plans and obtain CPM approval of any substantive modifications to the security plans.	N/A	1) In ACRs; 2) If modifications					Ongoing	The project owner shall implement site security measures addressing physical site security and hazardous materials storage. The level of security to be implemented will be determined by the results of the Vulnerability Assessment but in no case shall the level of security be less than that described in Condition HAZ-8 (as per NERC 2002). The CPM may authorize modifications to these measures, or may require additional measures, such as protective barriers for critical power plant components (e.g., transformers, gas lines, compressors, etc.) depending on circumstances unique to the facility or in response to industry-related standards, security concerns, or additional guidance provided by the U.S. Department of Homeland Security, the U.S. Department of Energy, or the North American Electrical Reliability Council, after consultation with appropriate law enforcement agencies and the applicant.
NOISE-2	Ops	Throughout operation of the project, the project owner shall document, investigate, evaluate, and attempt to resolve all project-related noise complaints.	1) Within five days of receiving a noise complaint, the project owner shall file a copy of the Noise Complaint Resolution Form, with the CPM, documenting the resolution of the complaint. 2) If mitigation is required to resolve a complaint, and the complaint is not resolved within a 3-day period, the project owner shall submit an updated Noise Complaint Resolution Form when the mitigation is implemented.	N/A	1) Within 5d of receiving a noise complaint; 2) If and when mitigation is implemented					Ongoing	
NOISE-4 & 5	Ops	Following the project first achieving sustained output of 95% or greater rated capacity, the owner shall conduct an occupational noise survey.	See Condition for details.	N/A				9/22/14	10/22/2014	Complete	CEC approved Noise Surveys in October, 2014

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
<b>PUBLIC HEALTH-1</b>	<b>Ops</b>	Project owner shall not operate the Wartsila engines on diesel fuel for a period exceeding 510 hours per year total for all 10 engines, with the exception of the first year where commissioning and compliance testing is required and the hours may not exceed 650.	Provide hourly logs of diesel fuel usage to CPM in ACR. The log shall include unit number, duration, and purpose (annual compliance testing, natural gas curtailment, or emergency). The log shall also include wind direction for any hour the project owner is seeking to exclude. (Verification change approved by CEC 9/1/09).	N/A	annually in ACR					Compete / Ongoing	Note that this verification language was revised. HRA submitted and approved. Annual allotment increased to 1000 hours, rolling average.
<b>PUBLIC HEALTH-2</b>	<b>Post-Const</b>	Project owner shall provide the results of a source test using diesel fuel on the number of engine exhaust stacks outlined in Public Health-2 and a human health risk assessment (HRA) to the CPM. The source test and HRA shall be conducted according to protocols reviewed and commented on by the North Coast Unified Air Quality Management District and reviewed and approved by the CPM. <b>See Public Health-2 for extensive list of testing requirements.</b>	1) Not less than 60 days after commercial operations, provide a copy of the source test and HRA protocols to NCUAQMD for review and comment and to CPM for review and approval. 2) Not less than 60 days after each group of source tests has been completed, provide test results to NCUAQMD and CPM. 3) When all requirements for testing outlined in Public Health-2 have been completed, submit all test results and the HRA to NCUAQMD for review and comment and to CPM for approval within 90 days of the date of the last test or not later than 270 days after the start of commercial operations, whichever is sooner. <b>(Verification changes approved by the CEC 9/1/09)</b>	NCUAQMD	1) 60d after commercial ops; 2) 60d after testing complete; 3) within 90d of last test or not later than 270d after commercial ops, whichever is sooner					Compete / Ongoing	HRA complete.
<b>SOIL &amp; WATER-1</b>	<b>Ops</b>	Site-specific Drainage, Erosion and Sedimentation Control Plan (DESCP) -- ensures protection of water quality and soil resources of the HBRP site and all linear facilities for both the construction and operational phases of the project.	Once operational, the project owner shall provide in the annual compliance report information on the results of monitoring and maintenance activities.	N/A	in ACRs					Ongoing	
<b>SOIL &amp; WATER-3</b>	<b>Ops</b>	The project owner shall comply with the requirements of the General National Pollutant Discharge Elimination System (NPDES) Permit for Discharges of Stormwater Associated with Industrial Activity, and shall develop and implement a Storm Water Pollution Prevention Plan (SWPPP) for the operation of the entire HBRP site (Operational SWPPP).	Following the commercial operation date, the project owner will notify the CPM of any reported non-compliance with the SWPPP, any associated corrective measures, and the results of implementing those measures.	See permit	if occurs					Ongoing	No non-compliance to date.
<b>SOIL &amp; WATER-5</b>	<b>Ops</b>	The project owner shall use groundwater as its primary water supply for construction and operations, including cooling, process, and other approved non-potable uses. The metering devices shall be operational for the life of the project. Potable water supply records can be as provided by HCSD.	The project owner shall submit a Water Use Summary to the CPM in the ACR. <b>See SOIL &amp; WATER-5 language and verification for ACR water usage summary reporting requirements.</b>	N/A	In ACRs					Ongoing	If there is a significant change in the water supply source(s), the new source(s) supply and distribution system shall also have metering devices. Any water used from the new source(s) shall be incorporated into the annual Water Use Summary within 30 days of hook-up.
<b>SOIL &amp; WATER-6</b>	<b>Ops</b>	The project owner shall file an Application/Report of Waste Discharge and obtain an NPDES Permit from the North Coast Regional Water Quality Control Board to assure the discharge of stormwater during operation would not impair the quality of surface water in Buhne Slough.	The project owner shall provide the CPM with copies of all correspondence between itself and the North Coast RWQCB within 10 days of mailing or of receipt as related to the application and permit.	RWQCB	within 10d of mailing or receipt					Ongoing	**As an alternative and if applicable, the project owner may provide documentation from the North Coast RWQCB that HBRP's discharge of groundwater and stormwater to Buhne Slough would be permitted under the General NPDES Permits that would be utilized in accordance with Conditions of Certification SOIL & WATER-2 and -3 or has obtained a permit from the Humboldt Community Services District for disposal.
<b>SOIL &amp; WATER-7</b>	<b>Ops</b>	The project owner shall secure a Water Supply Service Agreement for potable water service from Humboldt Community Services District.	The CPM shall be notified within 10 days of any incidents of non-compliance with the terms of the Water Service Agreement, including proposed remedies to avoid recurrence, and the results of implementing those remedies.	Humboldt Community Services District	within 10d if occurs					Ongoing	No non-compliance events.
<b>SOIL &amp; WATER-8</b>	<b>Ops</b>	The project owner shall obtain a Permit for Industrial Wastewater Discharge and comply with the wastewater discharge limitations, pretreatment requirements, peak flow restrictions, dewatering discharges, payment of fees, and monitoring and reporting requirements of Humboldt Community Services District.	The CPM shall be notified in writing within 10 days of any reported non-compliance with Humboldt County Sanitation District's discharge requirements, including corrective measures for non-compliance and the results of implementing those measures.	Humboldt Community Services District	within 10d if occurs					Ongoing	
<b>VIS-3</b>	<b>Post-Const/ Ops</b>	The project owner shall color and finish the surfaces of all project structures and buildings visible to the public to ensure that they 1) minimize visual intrusion and contrast by blending with the landscape; 2) minimize glare; and 3) comply with local policies and ordinances.	1) Within 90 days after commercial ops, notify CPM that structures/buildings are ready for inspection and submit electronic color photos from selected KOPs 1, 2, and 3 at the least showing the "as built" surface treated structures and buildings. 2) Provide status report regarding painting maintenance in ACRs. **	CA Coastal Commission	1) Within 90d after commercial ops; 2) in ACRs					Ongoing	**The report shall specify the condition of the surfaces of all structures and buildings at the end of the reporting year, major maintenance activities that occurred during the reporting year, and the schedule of major maintenance activities for the next year.

### Humboldt Bay Generating Station Operations Compliance Matrix

CEC Commission Decision 09/08

Condition	Phase	Description	Verification/Action/Submittal Required	Other Review Required	Timeframe	Responsible Party	Sched. Date	Date Submitted	Date Approved	Status	Comments
<b>VIS-4</b>	<b>Ops</b>	To the extent feasible, consistent with safety and security considerations and commercial availability, the project owner shall design and install all permanent exterior lighting such that a) light fixtures do not cause obtrusive spill light beyond the project site; b) lighting does not cause excessive reflected glare; c) direct lighting does not illuminate the nighttime sky; d) illumination of the project and its immediate vicinity is minimized, and e) lighting complies with local policies and ordinances.	1) Within 10 days of receiving a lighting complaint, provide CPM with a complaint resolution form report as specified in the Compliance General Conditions, including a proposal to resolve the complaint, and a schedule for implementation. 2) Notify CPM within 10 days after completing implementation of the proposal. 3) A copy of the complaint resolution form report shall be submitted to CPM within 30 days of complaint resolution.	N/A	1) Within 10d of complaint; 2) Within 10 days of implementation 3) Within 30d of resolution					Ongoing	No complaints received to date.
<b>VIS-6</b>	<b>Ops</b>	The project owner shall install minimal signage visible to the public. <b>See VIS-6 for signage requirements and limitations.</b>	See Condition for details.	See VIS-6						Ongoing	Proposed signs were approved and installed.
<b>WASTE-4</b>	<b>Ops</b>	Upon becoming aware of any impending waste management-related enforcement action by any local, state, or federal authority, the project owner shall notify the CPM of any such action taken or proposed to be taken against the project itself, or against any waste hauler or disposal facility or treatment operator with which the owner contracts.	The project owner shall notify the CPM in writing within 10 days of becoming aware of an impending enforcement action. The CPM shall notify the project owner of any changes that will be required in the manner in which project-related wastes are managed.	N/A	Within 10d of becoming aware of enforcement action					Ongoing	No enforcement actions to date.
<b>WASTE-5</b>	<b>Ops</b>	Annual waste management reporting	In the Annual Compliance Reports document the actual waste management methods used during the year and provide a comparison of the actual methods used to those planned management methods proposed in the original Operation Waste Management Plan.	N/A	In ACRs					Ongoing	
<b>WORKER SAFETY-5</b>	<b>Ops</b>	The project owner shall ensure that a portable automatic cardiac defibrillator is located on site and shall implement a program to ensure that workers are properly trained in its use and that the equipment is properly maintained and functioning at all times.	During operations, all power plant employees shall be trained in its use.	N/A						Ongoing	

**Attachment B**  
**Project Operating Status Summary**



**Humboldt Bay  
Generating Station** 1000 King Salmon Ave.  
Eureka, CA 95503-  
6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Item 2, Condition of Certification COM-7 (06-AFC-07C)**

Dear Mr. Winstead:

Per COM-7 Item 2, we are to provide;

*“A summary of the current project operating status and an explanation of any significant changes to the facility operations during the year.”*

There were no significant changes to the facility operations during the reporting period.

Should you have any questions or comments please do not hesitate to contact me at (707) 269-1810.

Sincerely,

A handwritten signature in blue ink that reads 'Ryan Messinger'.

Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

cc: Chuck Holm, PG&E (electronic)

**Attachment C**  
**Accompanying Documents**

CEC Annual Compliance Report		
Reporting Conditions, per COM-7, Item 3		
Condition of Certification	Reporting	Comments
Public Health- 1	Hourly Logs	See attached documentation, Appendix 1
HAZ-1	Updated list	See attached documentation, Appendix 2
HAZ-8	Certifications and Statements	See attached documentation, Appendix 3
BIO-2	Temp. Biologist Procurement, Biologist notes from reporting period.	See attached documentation, Appendix 4
SOIL & WATER-1	Monitoring Results	See attached documentation, Appendix 5
SOIL & WATER-5	Water Use Summary	See attached documentation, Appendix 6
VIS-3	Status Report	See attached documentation, Appendix 7
WASTE-5	WM method documentation	See attached documentation, Appendix 9

## **Appendix 1, Public Health-1**

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Condition of Certification  
PUBLIC HEALTH-1 (06-AFC-07C)**

Dear Mr. Winstead:

Per PUBLIC HEALTH-1, we are to provide;

*“The project owner shall provide hourly logs of diesel usage to the CPM in the Annual Compliance Report Summary.”*

For each hourly diesel usage that resulted in the use of more than 500 gallons of diesel, the diesel usage logs have been provided to the CPM per HBGS Condition of Certification AQ-153. In an effort to save paper and space, the logs are not included in this submittal, however a summary of all diesel usage has been included. If the CEC would like for us to resubmit these logs we are more than happy to do so.

Should you have any questions or comments please do not hesitate to contact me at (707) 269-1810.

Sincerely,



Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

cc: Chuck Holm, PG&E (electronic)

**PACIFIC GAS AND ELECTRIC  
HUMBOLDT BAY GENERATING STATION  
SUMMARY OF DIESEL FUEL USAGE  
Wärtsilä Reciprocating Engines (S-1 through S-10)  
Diesel Fuel Used (gallons)**

Month	Unit 1		Unit 2		Unit 3		Unit 4		Unit 5		Unit 6		Unit 7		Unit 8		Unit 9		Unit 10	
	diesel fuel (diesel mode)	pilot fuel (natural gas mode)																		
Jul-18	0.0	489.3	0.0	859.7	0.0	964.9	14.9	914.3	0.0	822.4	178.1	436.9	0.0	668.3	0.0	687.8	0.0	1105.6	49.2	344.8
Aug-18	0.0	463.6	2446.5	413.4	0.0	586.7	151.1	988.6	1.6	804.2	42.5	797.4	179.4	917.6	0.0	1293.2	0.0	818.1	3266.5	400.5
Sep-18	0.0	84.1	0.0	28.9	0.0	823.3	0.0	92.8	0.0	588.2	66.5	189.1	37.9	586.8	0.0	1543.9	0.0	611.6	146.0	330.3
<b>Total Quarter 3, 2018</b>	0.0	1037.0	2446.5	1302.0	0.0	2374.9	166.0	1995.7	1.6	2214.7	287.1	1423.4	217.3	2172.7	0.0	3524.9	0.0	2535.3	3461.7	1075.7
Oct-18	0.0	157.1	0.0	740.8	3.7	771.2	4.6	775.5	0.0	1417.1	60.1	541.1	0.0	0.0	7.6	435.6	58.1	291.1	13.6	1443.7
Nov-18	0.0	21.6	3.8	546.6	0.0	785.5	1.0	380.6	0.0	583.1	17.1	57.5	0.0	640.3	0.0	87.9	2.5	1093.3	66.1	431.5
Dec-18	0.0	327.2	0.0	674.0	0.0	838.0	3.3	472.4	0.0	370.6	88.8	69.1	0.0	1194.9	0.0	584.6	3.0	781.7	0.0	672.9
<b>Total Quarter 4, 2018</b>	0.0	505.9	3.8	1961.3	3.7	2394.7	8.9	1628.5	0.0	2370.7	166.0	667.6	0.0	1835.1	7.6	1108.1	63.6	2166.1	79.7	2548.1
<b>Cumulative for Quarters 3 &amp; 4</b>	<b>0.0</b>	<b>1542.9</b>	<b>2450.3</b>	<b>3263.3</b>	<b>3.7</b>	<b>4769.6</b>	<b>174.9</b>	<b>3624.1</b>	<b>1.6</b>	<b>4585.4</b>	<b>453.1</b>	<b>2091.0</b>	<b>217.3</b>	<b>4007.8</b>	<b>7.6</b>	<b>4633.0</b>	<b>63.6</b>	<b>4701.4</b>	<b>3541.4</b>	<b>3623.8</b>

HBGS Total Diesel Mode Fuel Usage: 6914 Gallons

HBGS Total Natural Gas (Pilot) Mode Fuel Usage: 36842 Gallons

HBGS Total Semi-Annual Fuel Usage: 43756 Gallons

## Appendix 2, HAZ-1

**TABLE 1**  
HBGS Hazardous Materials Inventory and Storage Locations

<b>Common Name</b>	<b>Maximum Quantities (gallons, unless otherwise specified)</b>	<b>Location on Figure 3-1 (Map Code)</b>
Aqueous Ammonia (19%)	54,000	Outdoor storage, adjacent to Unloading Area (105)
Antifreeze/ Coolant: Propylene Glycol (Nalco Intercool 323)	7,100	Radiators Area (71) and Engine Hall (EH)
Diesel Fuel No. 2	651,336*	Tank Area, Diesel Tank (24), Fire Pump House (300), Blackstart Unit (300)
Lubrication Oil – Shell Mysella Oil XL or LA 40)	35,000	Electrical generators, Engine Hall (EH)
Lubrication Oil – Shell Mysella Oil XL or LA 40)	18,900	Clean Lubrication Oil Tank and Lubrication Oil Service Tank (42, 45)
Used Lubrication Oil Shell Mysella Oil XL or LA 40)	14,700	Used Lubrication Oil Tank (145)
Mineral Insulating Oil	23,200	Mineral Insulating Oil Transformers switchyard (including spare transformer)
Sulfuric Acid Batteries (50-91%)	683	LV Building, MV Building, Fire Pump House, Blackstart Unit, Office
Lead (Lead Acid Batteries)	12,000	LV Building, MV Building, Fire Pump House, Blackstart Unit, Office
Envirotemp Insulating fluid FR3	1,227	Contained inside station service transformers
Fuel additive/biocide - Nalco 77352 NA	50	Fuel Storage Area
Activated Alumina	1,600 lbs	Engine Hall
Nalco, TRAC 102	2,000	Radiators; Engine Hall
Carbon Monoxide + Nitrogen	4,380 cubic feet	Continuous Emission Monitoring Systems Shelters
Nitric Oxide + Nitrogen	4,380 cubic feet	Continuous Emission Monitoring Systems Shelters
Nitrogen + Oxygen	4,380 cubic feet	Continuous Emission Monitoring Systems Shelters
Acetylene	725 cubic feet	Engine Hall and Workshop 2
Oxygen	500 cubic feet	Engine Hall and Workshop 2
Helium	440 cubic feet	Gas Metering Station
Lubrication Oil (Sigma S-460)	500	Oil Storage Building
Argon	562 cubic feet	Workshop 2
Argon & Helium	510 cubic feet	Workshop 2
Argon & CO2	500 cubic feet	Workshop 2
Alcohol Ethoxylate- aka – Combi Degreaser (Fruit Acid Degreaser)	360	Storage Container

\*Updated quantity.

## Appendix 3, HAZ-8



Humboldt Bay # 1000 King Salmon Ave.  
Generating Station Eureka, CA 95503-6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Condition of Certification  
HAZ-8 (06-AFC-07C)**

Dear Mr. Winstead:

Per HAZ-8, we are to provide;

*“The project owner shall include a statement that Operations Security Plan includes all current hazardous materials transport vendor certifications for security plans and employee background investigations.”*

The Operations Security Plan is up to date to include current hazardous materials transport vendors certifications and employee background investigations.

Should you have any questions or comments please do not hesitate to contact me at (707) 269-1810.

Sincerely,

A handwritten signature in blue ink that reads 'Ryan Messinger'.

Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

cc: Chuck Holm, PG&E (electronic)

## Appendix 4, BIO-2

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Condition of Certification  
BIO-2 (06-AFC-07C)**

Dear Mr. Winstead:

Per BIO-2, we are to provide;

*"If actions may affect biological resources during operation, a Designated Biologist shall be available for monitoring and reporting. During project operation, the Designated Biologist shall submit record summaries in the Annual Compliance Report unless his/her duties are ceased as approved by the CPM."*

HBGS has not had any actions that may have adversely affected biological resources during operation. There were continuing efforts on a gas pipeline project that required biological monitoring in the adjacent wetlands (CDP 9-16-0379); however, that monitoring was handled through a contract with the gas department, and all associated documents were submitted from other parties. No adverse impacts occurred during this work.

Historically, there have been ongoing mitigation monitoring efforts occurring within the Buhne Point Wetlands Preserve. As per project biologist recommendations in the 2016 Annual Monitoring Report for Buhne Preserve, all current mitigation objectives have been met and no further mitigation monitoring or reporting for the Buhne Point Wetlands Preserve is expected until the construction and subsequent mitigation monitoring of the Mit-1 area.

Should you have any questions or comments please do not hesitate to contact me at (707) 269-1810.

Sincerely,



Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

cc: Chuck Holm, PG&E (electronic)

## **Appendix 5, SOIL & WATER-1**



2017-2018  
**ANNUAL REPORT**  
FOR STORM WATER DISCHARGES  
ASSOCIATED WITH INDUSTRIAL ACTIVITIES

Reporting Period July 1, 2017 through June 30, 2018

**Retain a copy of the completed Annual Report for your records.**

Please remember that a Notice of Termination and new Notice of Intent are required whenever a facility operation is relocated or changes ownership.

If you have any questions, please contact your Regional Board Industrial Storm Water Permit Contact. The names, telephone numbers, and e-mail addresses of the Regional Board contacts, as well as the Regional Board office addresses, can be found at:

[http://www.waterboards.ca.gov/water\\_issues/programs/stormwater/contact.shtml](http://www.waterboards.ca.gov/water_issues/programs/stormwater/contact.shtml)

### General Information

#### A. Facility Information

WDID: 1 121022722

Business Name: PGE Humboldt Bay Generating Station

Physical Address: 1000 King Salmon Ave

City: Eureka

Contact Person: Scott Washington

State: CA

Phone: 707-269-1810

Zip: 95503

Email: [s2wh@pge.com](mailto:s2wh@pge.com)

Standard Industrial Classification (SIC) Codes: 4911-Electric Services

#### B. Facility Owner Information

Business Name: Pacific Gas and Electric Co

Mailing Address: PO Box 770000

City: San Francisco

Contact Person: Scott Washington

State: CA

Phone: 707-269-1810

Zip: 94177

Email: [s2wh@pge.com](mailto:s2wh@pge.com)

#### C. Facility Billing Information

Business Name: PGE Humboldt Bay Generating Station

Mailing Address: 1000 King Salmon Ave

City: Eureka

Contact Person: Scott Washington

State: CA

Phone: 707-269-1810

Zip: 95503

Email: [s2wh@pge.com](mailto:s2wh@pge.com)

## Question Information

1. Has the Discharger conducted monthly visual observations (including authorized and unauthorized Non-Storm Water Discharges and Best Management Practices) in accordance with Section XI.A.1?

Yes  No

If No, see Attachment 1, Summary of Explanation.

2. Has the Discharger conducted sampling event visual observations at each discharge location where a sample was obtained in accordance with Section XI.A.2?

Yes  No

If No, see Attachment 1, Summary of Explanation.

3. Did you sample the required number of Qualifying Storm Events during the reporting year for all discharge locations, in accordance with Section XI.B?

Yes  No

If No, see Attachment 1, Summary of Explanation.

4. How many storm water discharge locations are at your facility?

2

5. Has the Discharger chosen to select Alternative Discharge Locations in accordance with Section XI.C.3?

Yes  No

6. Has the Discharger reduced the number of sampling locations within a drainage area in accordance with the Representative Sampling Reduction in Section XI.C.4?

Yes  No

7. Permitted facilities located within an impaired watershed must assess for potential pollutants that may be present in the facility's industrial storm water discharge. Using the table below, populated based on the facility's location, indicate the presence of the potential pollutant at the facility.

See Attachment 2 for the List of Identified Pollutants within the Impaired Watershed.

8. Has the Discharger included the above pollutants in the SWPPP pollutant source assessment and assessed the need for analytical monitoring for the pollutants?

Yes       No

If No, what date will the parameter(s) will be added to the SWPPP and Monitoring Implementation Plan?

9. Were all samples collected in accordance with Section XI.B.5?

Yes       No

If No, see Attachment 1, Summary of Explanation.

10. Has any contained storm water been discharged from the facility this reporting year?

Yes       No

If Yes, see Attachment 1, Summary of Explanation.

11. Has the Discharger conducted one (1) annual evaluation during the reporting year as required in Section XV?

Yes       No

If Yes, what date was the annual evaluation conducted? 06/27/2018

If No, see Attachment 1, Summary of Explanation.

12. Has the Discharger maintained records on-site for the reporting year in accordance with XXI.J.3?

Yes       No

If No, see Attachment 1, Summary of Explanation.

If your facility is subject to Effluent Limitation Guidelines in Attachment F of the Industrial General Permit, include your specific requirements as an attachment to the Annual Report (attach as file type: Supporting Documentation).

## ANNUAL REPORT CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name: Chuck Holm

Title: HBGS Plant Manager

Date: 07/02/2018

2017-2018

**Annual Report for WDID 1 12I022722**

**Summary of Explanations**

<a href="#">Explanation Question</a>	<a href="#">Explanation Text</a>
--------------------------------------	----------------------------------

**Summary of Attachments**

<a href="#">Attachment Type</a>	<a href="#">Attachment Title</a>	<a href="#">Description</a>	<a href="#">Date Uploaded</a>	<a href="#">Part Number</a>	<a href="#">Attachment Hash</a>
Other	ELG Annual Report Discussion 2017	ELG discussion	06/27/2018	1/1	52a93629a9362b3dda db177f8a2a3f69a4d73f 2ed9abc8bcbf0193d54 87392

2017-2018

**Annual Report for WDID 1 121022722**

**List of Identified Pollutants within the Impaired Watershed**

<b>Parameter</b>	<b>Pollutant</b>	<b>Present at Facility?</b>
Dioxin-like compound screen	Dioxin Toxic Equivalentents	No
PCBs (Polychlorinated biphenyls)	PCBs (Polychlorinated biphenyls)	No

2017 - 2018

**AD HOC MONITORING REPORT**  
FOR  
STORM WATER DISCHARGES ASSOCIATED  
WITH INDUSTRIAL ACTIVITIES

---

**WDID No:** 1 12I022722

**Operator Information:**

Name: Pacific Gas and Electric Co

Address: PO Box 770000

City: San Francisco State: CA Zip: 94177

Contact: Scott Washington

E-mail: s2wh@pge.com

Phone: 707-269-1810

**Facility Information:**

Name: PGE Humboldt Bay Generating Station

Address: 1000 King Salmon Ave

City: Eureka State: CA Zip: 95503

Contact: Scott Washington

E-mail: s2wh@pge.com

Phone: 707-269-1810

**Event Information:**

Event Type: Qualifying Storm Event

Event ID: 977402

**Certified By:**

Name: Chuck Holm

Date:

## DATA SUMMARY

Monitoring Location	Sample Date/Time	Estimated Discharge Date/Time	Parameter	Result Qualifier	Results	Units	Analytical Method	Method Detection Limit	Reporting Limit	Analyzed By
HBGS #1	Fri Nov 03 09:30:00 PDT 2017	Fri Nov 03 08:30:00 PDT 2017	Iron, Total	=	0.86	mg/L	E200.7	0.0026	0.015	LAB
HBGS #1	Fri Nov 03 09:30:00 PDT 2017	Fri Nov 03 08:30:00 PDT 2017	Oil and Grease	ND	0.88	mg/L	E1664B	0.88	4.8	LAB
HBGS #1	Fri Nov 03 09:30:00 PDT 2017	Fri Nov 03 08:30:00 PDT 2017	pH	=	6.81	SU	pH_Field	0.01	0.01	SELF
HBGS #1	Fri Nov 03 09:30:00 PDT 2017	Fri Nov 03 08:30:00 PDT 2017	Total Suspended Solids (TSS)	=	24	mg/L	A2540D	0.6	1	LAB

## ATTACHMENTS

Attachment Title	Description	Date Uploaded	Attachment Type	Attachment Hash	Doc Part No/Total Parts
HBGS 11-03-2017 Sample Results	HBGS 11-03-2017 Sample Results	2017-12-04 13:10:20.0	Laboratory Results	24b975f6bb4dd56ba12f87e9c4bf4053aa54f0d29fc2e5fe506f1a61681333	1/1
pH Calibration Records	pH Calibration Records	2017-12-04 13:10:21.0	Supporting Documentation	471f68b1977da8d87e2b3fd1024816733703d6fdb1cba10982b8e2acc6fa	1/1
pH Results	pH Results	2017-12-04 13:10:21.0	Supporting Documentation	91ed25aa326d11e63d276979d01c13f894fa1e67f1c391d3884e6fb748d57370	1/1

2017 - 2018

**AD HOC MONITORING REPORT**  
FOR  
STORM WATER DISCHARGES ASSOCIATED  
WITH INDUSTRIAL ACTIVITIES

---

**WDID No:** 1 12I022722

**Operator Information:**

Name: Pacific Gas and Electric Co

Address: PO Box 770000

City: San Francisco State: CA Zip: 94177

Contact: Scott Washington

E-mail: s2wh@pge.com

Phone: 707-269-1810

**Facility Information:**

Name: PGE Humboldt Bay Generating Station

Address: 1000 King Salmon Ave

City: Eureka State: CA Zip: 95503

Contact: Scott Washington

E-mail: s2wh@pge.com

Phone: 707-269-1810

**Event Information:**

Event Type: Qualifying Storm Event

Event ID: 977405

**Certified By:**

Name: Chuck Holm

Date:

## DATA SUMMARY

Monitoring Location	Sample Date/Time	Estimated Discharge Date/Time	Parameter	Result Qualifier	Results	Units	Analytical Method	Method Detection Limit	Reporting Limit	Analyzed By
HBGS #1	Wed Nov 08 16:30:00 PST 2017	Wed Nov 08 15:00:00 PST 2017	Iron, Total	=	0.82	mg/L	E200.7	0.0026	0.015	LAB
HBGS #1	Wed Nov 08 16:30:00 PST 2017	Wed Nov 08 15:00:00 PST 2017	Oil and Grease	ND		mg/L	E1664B	1	5.5	LAB
HBGS #1	Wed Nov 08 16:30:00 PST 2017	Wed Nov 08 15:00:00 PST 2017	pH	=	6.53	SU	pH_Field	0.01	0.01	SELF
HBGS #1	Wed Nov 08 16:30:00 PST 2017	Wed Nov 08 15:00:00 PST 2017	Total Suspended Solids (TSS)	=	6.5	mg/L	A2540D	0.6	1	LAB

## ATTACHMENTS

Attachment Title	Description	Date Uploaded	Attachment Type	Attachment Hash	Doc Part No/Total Parts
HBGS 11-08-2017 Sample Results	HBGS 11-08-2017 Sample Results	2017-12-04 13:14:48.0	Laboratory Results	fe59a426562c2161d625ca71f7da3271aa27468237dc9ab0cf5e795238933e2	1/1
pH Calibration Records	pH Calibration Records	2017-12-04 13:14:49.0	Supporting Documentation	471f68b1977da8d87e2b3fd1024816733703d6fdb1cba10982b8e2acc6fa	1/1
pH Results	pH Results	2017-12-04 13:14:49.0	Supporting Documentation	91ed25aa326d11e63d276979d01c13f894fa1e67f1c391d3884e6fb748d57370	1/1

2017 - 2018

**AD HOC MONITORING REPORT**  
FOR  
STORM WATER DISCHARGES ASSOCIATED  
WITH INDUSTRIAL ACTIVITIES

---

**WDID No:** 1 12I022722

**Operator Information:**

Name: Pacific Gas and Electric Co

Address: PO Box 770000

City: San Francisco State: CA Zip: 94177

Contact: Scott Washington

E-mail: s2wh@pge.com

Phone: 707-269-1810

**Facility Information:**

Name: PGE Humboldt Bay Generating Station

Address: 1000 King Salmon Ave

City: Eureka State: CA Zip: 95503

Contact: Scott Washington

E-mail: s2wh@pge.com

Phone: 707-269-1810

**Event Information:**

Event Type: Qualifying Storm Event

Event ID: 977407

**Certified By:**

Name: Chuck Holm

Date:

## DATA SUMMARY

Monitoring Location	Sample Date/Time	Estimated Discharge Date/Time	Parameter	Result Qualifier	Results	Units	Analytical Method	Method Detection Limit	Reporting Limit	Analyzed By
HBGS #1	Mon Nov 20 10:30:00 PST 2017	Mon Nov 20 07:45:00 PST 2017	Iron, Total	=	0.68	mg/L	E200.7	0.0026	0.015	LAB
HBGS #1	Mon Nov 20 10:30:00 PST 2017	Mon Nov 20 07:45:00 PST 2017	Oil and Grease	ND		mg/L	E1664B	0.91	4.9	LAB
HBGS #1	Mon Nov 20 10:30:00 PST 2017	Mon Nov 20 07:45:00 PST 2017	pH	=	6.88	SU	pH_Field	0.01	0.01	SELF
HBGS #1	Mon Nov 20 10:30:00 PST 2017	Mon Nov 20 07:45:00 PST 2017	Total Suspended Solids (TSS)	=	13	mg/L	A2540D	0.6	1	LAB

## ATTACHMENTS

Attachment Title	Description	Date Uploaded	Attachment Type	Attachment Hash	Doc Part No/Total Parts
HBGS 11-20-2017 Sample Results	HBGS 11-20-2017 Sample Results	2017-12-04 13:22:21.0	Laboratory Results	62a6fc8f963fee08683114e4ed06fea9e3f3041f8b632ac83182ef2dea7ee6c	1/1
pH Calibration Records	pH Calibration Records	2017-12-04 13:22:21.0	Supporting Documentation	471f68b1977da8d87e2b3fd1024816733703d6fdb1cba10982b8e2acc6fa	1/1
pH Results	pH Results	2017-12-04 13:22:22.0	Supporting Documentation	91ed25aa326d11e63d276979d01c13f894fa1e67f1c391d3884e6fb748d57370	1/1

2017 - 2018

**AD HOC MONITORING REPORT**  
FOR  
STORM WATER DISCHARGES ASSOCIATED  
WITH INDUSTRIAL ACTIVITIES

---

**WDID No:** 1 12I022722

**Operator Information:**

Name: Pacific Gas and Electric Co

Address: PO Box 770000

City: San Francisco State: CA Zip: 94177

Contact: Scott Washington

E-mail: s2wh@pge.com

Phone: 707-269-1810

**Facility Information:**

Name: PGE Humboldt Bay Generating Station

Address: 1000 King Salmon Ave

City: Eureka State: CA Zip: 95503

Contact: Scott Washington

E-mail: s2wh@pge.com

Phone: 707-269-1810

**Event Information:**

Event Type: Qualifying Storm Event

Event ID: 989952

**Certified By:**

Name: stephen royall

Date:

## DATA SUMMARY

Monitoring Location	Sample Date/Time	Estimated Discharge Date/Time	Parameter	Result Qualifier	Results	Units	Analytical Method	Method Detection Limit	Reporting Limit	Analyzed By
HBGS #1	Mon Jan 08 11:45:00 PST 2018	Mon Jan 08 10:05:00 PST 2018	Iron, Total	=	0.74	mg/L	E200.7	0.0026	0.015	LAB
HBGS #1	Mon Jan 08 11:45:00 PST 2018	Mon Jan 08 10:05:00 PST 2018	Oil and Grease	ND		mg/L	E1664B	0.88	4.8	LAB
HBGS #1	Mon Jan 08 11:45:00 PST 2018	Mon Jan 08 10:05:00 PST 2018	pH	=	7.21	SU	pH_Field	0.01	0.01	SELF
HBGS #1	Mon Jan 08 11:45:00 PST 2018	Mon Jan 08 10:05:00 PST 2018	Total Suspended Solids (TSS)	=	8.2	mg/L	A2540D	0.6	1	LAB

## ATTACHMENTS

Attachment Title	Description	Date Uploaded	Attachment Type	Attachment Hash	Doc Part No/Total Parts
HBGS 01-08-2018 Sample Results	Analytic results from laboratory	2018-01-24 10:18:15.0	Laboratory Results	ccb4ea5cf59eae8644d1da1d7ab1e5ff4dbd06fd6cc8362b1b6f3577745eb	1/1
HBGS 01-08-2018 pH Results	pH results	2018-01-24 10:18:16.0	Supporting Documentation	9287e5a2be36803b659488c84fd2a5312caea9724a9573b02c4c5e4bb0884e2a	1/1
HBGS 01-08-2018 pH Calibration	pH calibration record	2018-01-24 10:18:17.0	Supporting Documentation	10f48b438d68b27859cc62697f95dff9234a84bc5558703569f23c3b605ba3	1/1

2017 - 2018

**AD HOC MONITORING REPORT**  
FOR  
STORM WATER DISCHARGES ASSOCIATED  
WITH INDUSTRIAL ACTIVITIES

---

**WDID No:** 1 12I022722

**Operator Information:**

Name: Pacific Gas and Electric Co

Address: PO Box 770000

City: San Francisco State: CA Zip: 94177

Contact: Scott Washington

E-mail: s2wh@pge.com

Phone: 707-269-1810

**Facility Information:**

Name: PGE Humboldt Bay Generating Station

Address: 1000 King Salmon Ave

City: Eureka State: CA Zip: 95503

Contact: Scott Washington

E-mail: s2wh@pge.com

Phone: 707-269-1810

**Event Information:**

Event Type: Qualifying Storm Event

Event ID: 994366

**Certified By:**

Name: Chuck Holm

Date:

## DATA SUMMARY

Monitoring Location	Sample Date/Time	Estimated Discharge Date/Time	Parameter	Result Qualifier	Results	Units	Analytical Method	Method Detection Limit	Reporting Limit	Analyzed By
HBGS #1	Thu Feb 22 14:40:00 PST 2018	Thu Feb 22 14:00:00 PST 2018	Iron, Total	=	0.85	mg/L	E200.7	0.0026	0.015	LAB
HBGS #1	Thu Feb 22 14:40:00 PST 2018	Thu Feb 22 14:00:00 PST 2018	Oil and Grease	ND		mg/L	E1664B	0.96	5.2	LAB
HBGS #1	Thu Feb 22 14:40:00 PST 2018	Thu Feb 22 14:00:00 PST 2018	pH	=	7.13	SU	pH_Field	0.01	0.01	SELF
HBGS #1	Thu Feb 22 14:40:00 PST 2018	Thu Feb 22 14:00:00 PST 2018	Total Suspended Solids (TSS)	=	5.7	mg/L	A2540D	0.6	1	LAB

## ATTACHMENTS

Attachment Title	Description	Date Uploaded	Attachment Type	Attachment Hash	Doc Part No/Total Parts
HBGS 02-22-2018 Sample Results	laboratory sample results	2018-03-14 10:54:16.0	Laboratory Results	f9c5d89bf61fc6051a7b44552b7fece129a19f68545be45b96e34d365aa88	1/1
HBGS 02-22-2018 pH Results	pH field results	2018-03-14 10:54:16.0	Supporting Documentation	cbfd86c42d39c49a831227831b734e9c653a5a3f8f56b75d6c7dc121291e35	1/1
HBGS 02-22-2018 pH Calibration	pH calibration record	2018-03-14 10:54:16.0	Supporting Documentation	5512b48b6db1f36ae2f98ecdabc9c7a6607ff83f5542893ecc1728b9dcd7adde	1/1

## **Appendix 6, SOIL & WATER-5**

**PG&E Co. - Humboldt Bay Generating Station**  
**Water Use Summary (October 2017 through September 2018)**  
**Soil and Water - 5**

	2017			2018								
	October	November	December	January	February	March	April	May	June	July	August	September
Potable Water from Humboldt Community Services District (Gal.) <sup>1</sup>	32,914	7,481	6,732	8,229	7,481	7,481	5,984	8,977	4,488	9,725	5,236	7,481
Potable Water from Humboldt Community Services District (Avg. Gal. / Day)	1,062	249	217	265	258	241	199	290	150	314	169	249
Reclaimed Water (Gal.)	0	0	0	0	0	0	0	0	0	0	0	0
Reclaimed Water (Avg. Gal. / Day)	0	0	0	0	0	0	0	0	0	0	0	0
PG&E Private Well (Gal.) <sup>2, 3</sup>	23,300	0	23,200	27,300	24,000	0	0	0	30,000	0	0	0
PG&E Private Well (Avg. Gal. / Day)	752	0	748	881	857	0	0	0	1,000	0	0	0
Total Water Usage (Gal.)	56,214	7,481	29,932	35,529	31,481	7,481	5,984	8,977	34,488	9,725	5,236	7,481
Total Water Usage (Avg. Gal. / Day)	1,813	249	966	1,146	1,124	241	199	290	1,150	314	169	249

1-Water use records obtained from Humboldt Community Services District monthly readings of the meter

2-Water use records obtained from tank soundings and in-line flow meter readings;

3-Flow meter associated with these readings did not require any servicing, testing, or calibration from October 2017 through September 2018

	12 Month Total		Monthly			
	Gallons	Acre-Ft	Average (Gal.)	Maximum (Gal.)	Minimum (Gal.)	Range (Gal.)
Potable Water from Humboldt Community Services District (Gal.)	112,208	0.344	9,351	32,914	4,488	28,426
Potable Water from Humboldt Community Services District (Avg. Gal. / Day)	307	0.001	305	1,062	150	912
Reclaimed Water (Gal.)	0	0	0	0	0	0
Reclaimed Water (Avg. Gal. / Day)	0	0	0	0	0	0
PG&E Private Well (Gal.)	127,800	0.392	10,650	30,000	0	30,000
PG&E Private Well (Avg. Gal. / Day)	350	0.001	353	1,000	0	1,000
Total Water Usage (Gal.)	240,008	1	20,001	56,214	5,236	50,978
Total Water Usage (Avg. Gal. / Day)	658	0	659	1,813	169	1,644

Date	Potable Water Use	Industrial Water Use
	(acre-feet)	(acre-feet)
Oct. 2010 - Sep. 2011	0.498	0.326
Oct. 2011 - Sep. 2012	0.195	0.206
Oct. 2012 - Sep. 2013	0.216	0.291
Oct. 2013 - Sep. 2014	0.232	0.291
Oct. 2014 - Sep. 2015	0.349	0.3
Oct. 2015 - Sep. 2016	0.351	0.185
Oct. 2016 - Sep. 2017	0.452	0.281
Oct. 2017 - Sep. 2018	0.344	0.281

1 acre-foot equals 325,851 gallons

## Appendix 7, VIS-3

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Condition of Certification  
VIS-3 (06-AFC-07C)**

Dear Mr. Winstead:

Per VIS-3, we are to provide;

*"...A status report regarding surface treatment maintenance in the Annual Compliance Report."*

Surfaces of most structures and buildings are in good condition. A combination of PG&E's internal painting department and contractors performed some painting on pavement areas to identify potential safety hazards. Some painting was also conducted to create awareness of tripping hazards near stairs and ledges in walking areas. PG&E's internal painting department has conducted spot painting of small areas where corrosion has been observed, including the large diesel tank, and the ammonia tanks. This maintenance painting will continue into the next reporting year. There is no major maintenance activities currently scheduled for this next reporting period. The HBGS Operations and Maintenance staff monitors the conditions of the facility on a daily basis. In the event that an observation is made resulting in recommended maintenance activity, a notification will be made in the station's electronic work management software, SAP, for correction.

Should you have any questions or comments please do not hesitate to contact me at (707) 269-1810.

Sincerely,



Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

cc: Chuck Holm, PG&E (electronic)

## Appendix 9, WASTE-5



**Humboldt Bay  
Generating Station** 1000 King Salmon Ave.  
Eureka, CA 95503-6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Item 3, Condition of Certification COM-7, WASTE-5 (06-AFC-07C)**

Dear Mr. Winstead:

Per WASTE-5, we are to document the waste management methods used during the year compared to the proposed methods of waste management in the operation Waste Management Plan. Please find the following, pursuant to this requirement.

Should you have any questions or comments please do not hesitate to contact me at (707) 269-1810.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Messinger".

Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

Enclosure

cc: Chuck Holm, PG&E (electronic)

<b>TABLE 1</b>				
Characterization of Waste Streams <i>Waste Management Plan, PG&amp;E Humboldt Bay Generating Station</i>				
<b>Waste Stream</b>	<b>Characteristics</b>	<b>Classification</b>	<b>Disposal</b>	<b>Method Followed Y/N</b>
<b>General Wastes</b>				
Non-recyclable non-hazardous office and lunchroom waste	Waste paper, metal, plastic, cardboard, wood	Non-hazardous solid waste, based on waste management practices and staff training.	Commercial waste bins -Currently Recology Humboldt County.	Yes
Recyclable office materials	Waste paper, metal, plastic, cardboard	Not a waste, based on waste management practices and personnel training.	Commercial recycling bins – Currently Eel River Disposal.	Yes
Janitorial products and waste from their use	Janitorial products (e.g., window cleaner, floor stripper, wax, drain cleaners, etc.) may contain chemicals that are hazardous. These chemicals are consumed during normal use.	Use according to instructions on product labels does not constitute disposal. Discarded full-strength products may exhibit characteristics of ignitability, corrosivity, reactivity, or toxicity.	Empty containers of 5 gallons or less (meeting the definition of an empty container) can be disposed of in commercial waste bins. Spent aerosol cans are NOT considered empty containers and must be managed as a universal hazardous waste as described below. Discarded unused products will be characterized based on review of product labels and MSDSs and disposed of appropriately.	Yes
Used consumer electronic products and components	Cell phones, personal computers, computer peripherals (e.g., printers), pagers, personal digital assistants, process control system components	Universal hazardous waste	Currently GEM of Rancho Cordova.	Yes
Light tubes	Includes fluorescent light tubes, high-pressure sodium lamps, and other lamps that exhibit a characteristic of a hazardous waste.	Universal hazardous waste	Currently GEM of Rancho Cordova.	Yes

**TABLE 1**

## Characterization of Waste Streams

*Waste Management Plan, PG&E Humboldt Bay Generating Station*

<b>Waste Stream</b>	<b>Characteristics</b>	<b>Classification</b>	<b>Disposal</b>	<b>Method Followed Y/N</b>
Batteries	Rechargeable nickel-cadmium batteries, lithium batteries, alkaline batteries, silver button batteries, mercury batteries, small sealed lead-acid batteries, carbon-zinc batteries, and any other batteries that exhibit a characteristic of a hazardous waste	Universal hazardous waste	Currently GEM of Rancho Cordova.	Yes
Lead acid batteries – automotive or large industrial	Contain lead and sulfuric acid	Recyclable hazardous waste	Currently GEM of Rancho Cordova.	Yes
Off-specification chemicals	Unusable new products, materials that cannot be returned to the vendor, and expired materials (shelf-life exceeded)	Chemical products may be non-hazardous, listed hazardous wastes, or characteristic waste.	Non-hazardous waste will be discarded in commercial waste bins. Hazardous waste will be disposed appropriately following characterization based on product labels and MSDSs.	Yes
Spent sorbent	Varies with wastes absorbed. May contain oil, solvents, coolant, or diesel fuel. Listed solvents are not expected to be used at the facility.	Non-hazardous waste if used to absorb a non-hazardous liquid; non-RCRA hazardous waste if used to absorb oil; RCRA hazardous waste if used to absorb a listed solvent or material that causes the sorbent to become a characteristic or listed hazardous waste	Non-hazardous waste will be discarded in commercial waste bins. Oil-contaminated sorbent will be disposed as a non-RCRA hazardous waste based on generator knowledge. Other hazardous waste sorbent will be disposed based on either generator knowledge if the material absorbed is known or analysis if it is not known.	Yes
Aerosol cans	Aerosol cleaners and lubricants may contain listed chemicals. In addition, aerosol propellants and materials may be ignitable. Materials may also be corrosive or reactive.	Universal hazardous waste	Empty, expired unused, or partially used aerosol cans. -Currently GEM of Rancho Cordova.	Yes

<b>TABLE 1</b>				
Characterization of Waste Streams <i>Waste Management Plan, PG&amp;E Humboldt Bay Generating Station</i>				
<b>Waste Stream</b>	<b>Characteristics</b>	<b>Classification</b>	<b>Disposal</b>	<b>Method Followed Y/N</b>
Used oil	Used oil includes lubricating oil, gearbox oil, compressor oil, bearing oil, transformer oil, metal working oil, and hydraulic oil that is not mixed with solvents.	Non-RCRA hazardous waste	Currently Evergreen Oil and Safety Kleen Systems (used oil recycler).	Yes
Painting wastes	Large-scale work is contracted out. Paint wastes include cans of unused or partially used paint, empty paint cans, and paint contaminated materials (brushes, rollers, tarps, and wipes).	It is assumed that waist paints are hazardous wastes. Paint-contaminated material is typically non-hazardous unless disposed when the paint is still wet.	Discarded unused or partially used paint will be characterized based on review of product labels and MSDSs and will be disposed of appropriately. -Currently GEM of Rancho Cordova.	Yes
Biohazard wastes	Biohazard waste may result from first aid response	Biohazard	Registered medical waste hauler to transport to an authorized facility.	Yes
Sanitary wastewater	Wastewater from toilets, sinks, showers, and janitorial closets.	Non-hazardous. Waste management provisions include posting signs at sinks and training employees regarding materials prohibited from draining at sinks.	Humboldt Community Services District.	Yes
Used oil filters	Used oil filters are hazardous based on oil content and may exhibit hazardous characteristics for lead and other heavy metals.	Used oil filters are classified as recyclable hazardous wastes provided that they are managed per requirements including draining of free-flowing oil	Drained oil filters may be transported to an approved destination such as Evergreen Oil under a bill of lading, provided that requirements for used oil filter management have been met.  Currently Safety Kleen (used oil recycler) removes used oil from the site.	Yes

<b>TABLE 1</b>				
Characterization of Waste Streams <i>Waste Management Plan, PG&amp;E Humboldt Bay Generating Station</i>				
<b>Waste Stream</b>	<b>Characteristics</b>	<b>Classification</b>	<b>Disposal</b>	<b>Method Followed Y/N</b>
Reusable soiled textiles (shop towels)	Varies with material absorbed. May contain oil, solvents, or other chemicals.	May be managed as a recyclable material excluded from classification as a waste if managed in accordance with requirements for reusable soiled textiles.	Recycle at facility that is compliant with requirements for reusable soiled textiles. -Currently ALSCO, Inc.	Yes
Empty product containers	Empty containers may contain residues that have hazardous characteristics. Care will be taken in handling empty containers previously holding ignitable materials as they may contain ignitable vapors.	Empty containers meeting the regulatory definition of empty (e.g. all contents have been poured out) may be disposed of as non-hazardous waste provided they also meet empty container management requirements.	Empty containers of 5 gallons or less may be disposed with commercial waste. Empty containers of greater than 5 gallons will be labeled with the word "empty" and the date they were emptied and either sent for reconditioning or for scrap within one year of becoming empty.  Currently Recology Humboldt County and GEM of Rancho Cordova.	Yes
Scrap metal	Used metal parts	Recyclable materials (22 CCR 66261.6(a)(3))	Place in scrap metal bins for transportation to a scrap metal recycler. -Currently Humboldt Recycling and Sanitation Co. and ALCO Iron and Metal Co.	Yes.
Compressed gas cylinders	Cylinders containing pressurized oxygen, acetylene, argon, nitrogen, and calibration gas blends; may contain residual pressure.	Non-hazardous solid waste when empty	Return refillable cylinders to vendors. Dispose of non-refillable cylinders as non-hazardous waste.	Yes
Spent solvent, sludge, and filters from parts washers.	Water-based and hydrocarbon based spent solvent, sludge, and filters.	Hydrocarbon-based solvent is typically hazardous and is collected and recycled.	Contract a parts washer service to recycle parts washer spent solvent in accordance with regulation. -Currently Safety Kleen .	Yes

**TABLE 1**

## Characterization of Waste Streams

*Waste Management Plan, PG&E Humboldt Bay Generating Station*

<b>Waste Stream</b>	<b>Characteristics</b>	<b>Classification</b>	<b>Disposal</b>	<b>Method Followed Y/N</b>
Oil/water separator sludge	Material collecting on the bottom of the oil/water separator may include oil-contaminated metals and other solids.	The material will be managed as a hazardous waste based on waste analysis.	Manage as a hazardous waste. The material will be disposed at an approved disposal facility in accordance with federal, state, and local regulations. -Currently Safety-Kleen.	Yes
Used engine coolant	Used engine coolants are mixtures of water and organic compounds such as ethylene glycol.	Spent coolants are typically non-RCRA hazardous wastes.	Recycle at Evergreen Oil or similar facility. -Currently Seaport Refining and Environment Co.	Yes

MSDS = Material Safety Data Sheet

RCRA = Resource Conservation and Recovery Act

**TABLE 2**Hazardous Wastes Generated at the HBGS Facility  
*Waste Management Plan, HBGS*

<b>Waste</b>	<b>Composition</b>	<b>Classification</b>	<b>Disposal</b>	<b>Method Used Y/N</b>
Lubricating oil	Hydrocarbons	Hazardous	Cleaned up using sorbent and rags—disposed of by certified oil recycler.	Yes
Lubricating oil filters	Paper, metal, and hydrocarbons	Hazardous	Recycled or disposed of by certified oil recycler.	Yes.
Radiator Coolant	Propylene glycol/water mixture	California Hazardous only	Recycled or disposed of by certified recycler.	Yes
Used Air Filters	Paper, metal	Hazardous	Recycled or disposed of at an approved disposal facility.	Yes
Selective catalytic reduction (SCR) catalyst units	Metal and heavy metals, including vanadium	Hazardous	Recycled by SCR manufacturer or disposed of in Class I landfill.	Yes
Carbon Monoxide (CO) catalyst units	Metal and heavy metals, including vanadium	Hazardous	Recycled by manufacturer or disposed of in Class I landfill.	Yes
Oily rags	Hydrocarbons, cloth	Hazardous	Recycled or disposed of by certified oil recycler.	Yes
Oil sorbents	Hydrocarbons	Hazardous	Recycled or disposed of by certified oil recycler.	Yes
Waste Oil/Sludge	Hydrocarbons	Hazardous	Recycled or disposed of by certified oil recycler.	Yes
Spent Batteries	Lead and Sulfuric Acid	Hazardous	Recycle.	Yes

**Attachment D**  
**Post-Certification Changes**



**Humboldt Bay  
Generating Station** 1000 King Salmon Ave.  
Eureka, CA 95503-  
6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Item 4, Condition of Certification COM-7 (06-AFC-07C)**

Dear Mr. Winstead:

Per COM-7 item 4 we are to include;

*“A cumulative listing of all post-certification changes approved by the Energy Commission or cleared by the CPM.”*

The California Energy Commission (CEC) approved PG&E's request for a project name change on December 30, 2008. The original project name was Humboldt Bay Repowering Project.

The CEC reviewed and approved PG&E's request for Insignificant Modification to allow for additional laydown area on May 13, 2009.

The CEC approved the request that bird diverters not be required to be installed on the new HBGS transmission lines on July 30, 2009. This was a requirement per Condition of Certification BIO-10,

The CEC approved minor verification changes to Condition of Certification CUL-10 on April 16, 2010. These changes consisted of Mitigation Plan distribution and review times. Changes were requested and agreed to be based on projected timelines of the HBGS project completion and the HBPP Decommissioning project commencement.

The CEC reviewed and approved PG&E's request for amendment specific to Air Quality Conditions of Certification, including Conditions of Certification Public Health 1 and 2, on May 04, 2010.

Due to the facility design and the nature of a repowering project, the CPM agreed that the electric magnetic field testing required per Condition of Certification TLSN-2 needed to occur after synchronization only (rather than pre and post). There was no change made to the condition, and the report was submitted per the agreement.

Also due to the facility design and the nature of a repowering project, the CPM agreed that per Condition of Certification TLSN-3, a portion of the grounding would need to occur after the lines were energized. Therefore, one submittal was made prior to the lines being energized, and another was made upon completion of the remaining portion of fencing.

During the HBGS construction close-out process the Humboldt Bay Power Plant (HBPP) Decommissioning Project requested the continued use of the HBGS laydown areas, temporary access / heavy haul road and associated parking lot, foot-bridge, walkways, and contractor parking lot in an effort to minimize unnecessary impacts. Each of the above mentioned were left in place and are in use today by the HBPP Decommissioning Project, and each are to be restored to original condition or better dependent on specific location. Additionally, a portion of the HBGS landscaping is yet to be completed (noted as Phase 2 of the Landscaping Plan). The latter was left open in an effort to allow for additional access points for the HBPP Decommissioning Project from the northern-most property line, which would have otherwise been blocked by the new landscaping. None of these items resulted in a change to the certification, rather each were addressed via their related Conditions of Certification, were approved by the CPM, and slated to be complete concurrent to or at the completion of the HBPP Decommissioning Project. Those Conditions of Certification include VIS-5, BIO- 6, and BIO-12.

Per Condition of Certification Public Health -1, PG&E submitted a revised Health Risk Assessment with which a request was made to increase the annual allotment of diesel hours for the facility. This request was reviewed, and approved by the CEC on August 2, 2011.

Per Condition of Certification GEN-1, PG&E submitted notification to install redundant gas regulator on December 23, 2013. Installation of the redundant gas regulator is complete, and final testing is scheduled to complete in November, 2014.

Per Condition of Certification GEN-1, PG&E submitted notification to install weather protective siding on diesel pumps December 23, 2013; PG&E also submitted a revised notification on January 23, 2014.

CEC approved a project modification for installation of eye wash stations on April 27, 2015. Installation is currently under way. Anticipated completion is early December 2015.

On May 7, 2015, HBGS submitted a petition to expand the site boundary, once decommissioning of HBPP is complete and final site restoration has occurred. This petition has been rescinded until closer to completion of decommissioning project.

CEC approved a project modification for the installation of a redundant transformer on September 17, 2015. Installation was completed in December 2015.

CEC approved a project modification for installation of a temporary tent on October 30, 2015. Tent was installed in February 2016.

CEC approved a project modification for the installation fiber optic line on September 13, 2016. Installation was completed in October 2016.

CEC approved a project modification for relocation of the existing natural gas meter on September 12, 2016. Investigative portions of this project completed in October, 2016; project was completed in October 2017.

CEC approved a project modification to amend HBGS air quality conditions in May 2018. This was done to allow for consistency with new Title V permit.

CEC reviewed, approved, and inspected the replacement of the previous guard booth with a new guard booth. The new guard both was installed and inspected in June 2018.

There have not been any other post-certification changes made to the license. Should you have any questions or comments please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Messinger". The signature is written in a cursive style with a large initial 'R' and 'M'.

Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

Enclosure

cc: Chuck Holm, PG&E (electronic)

**Attachment E**  
**Summary of Missed Deadlines**



**Humboldt Bay  
Generating Station**

1000 King Salmon Ave.  
Eureka, CA 95503-  
6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Item 5, Condition of  
Certification COM-7 (06-AFC-07C)**

Dear Mr. Winstead:

Per COM-7, item 5, we are to provide;

*"An explanation for any submittal deadlines that were missed, accompanied by an estimate of when the information will be provided."*

Between the dates of October 1, 2017 and September 30, 2018, there were no missed submittal deadlines associated with Humboldt Bay Generating Station.

Should you have any questions or comments, please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Messinger".

Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

Enclosure

cc: Chuck Holm, PG&E (electronic)

**Attachment F**  
**Governmental Agency Submittals and Issuances**



#  
**Humboldt Bay** 1000 King Salmon Ave.  
**Generating Station** Eureka, CA 95503-  
6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Item 6, Condition of Certification COM-7 (06-AFC-07C)**

Dear Mr. Winstead:

Per COM-7, item 6, we are to provide;

*“A listing of filings submitted to, or permits issued by, other governmental agencies during the year.”*

The following submittals were made during the reporting year;

**HBGS Agency Submittals; October 1, 2017 – September 30, 2018**

North Coast Unified Air Quality Management District (NCUAQMD)

- 3<sup>rd</sup> Quarter 2017 CEMS Report, 10/27/2017
- 2017 4<sup>th</sup> Quarter CEMS Report 01/31/2018
- 2017 Annual Monitoring Report 01/31/2018
- 2017 Annual NESHAPS Compliance Report, 01/31/2018
- 2017 Annual NESHAPS Deviation Report, 01/31/2018
- 2017 Title V Compliance Certification, 01/31/2018
- Title V Renewal Comments, 01/31/2018
- 2017 Fuel Use and Emissions Inventory, 03/28/2018
- Breakdown Report, Unit 4, NOx Exceedance, 4/12/18
- 2018 1<sup>st</sup> Quarter CEMS Report, 04/25/2018
- 2018 2<sup>nd</sup> Quarter CEMS Report, 07/31/2018
- 2018 First Half Monitoring Report, 07/31/2018
- 2018 Title V Certification of Compliance, 07/31/2018
- 2018 NESHAPS Deviation (January through June), 07/31/2018
- 2018 NESHAPS Compliance (January through June), 07/31/2018
- 2018 3<sup>rd</sup> Quarter CEMS Report, 10/30/2018

Environmental Protection Agency (EPA)

- 2017 Annual NESHAPS Notification of Compliance, 01/30/2018
- 2017 Annual NESHAPS Deviation Report and Certification of Compliance, 01/30/2018

- 2018 Semiannual NESHAPS Deviation Report and Certification of Compliance, 07/31/2018
- 2018 Semiannual NESHAPS Notification of Compliance, 07/31/2018

California Air Resources Board (CARB)

- PG&E Humboldt Bay Generating Station GHG Rreport, Facility ID 1001192, Reporting Year 2017

Certified Unified Program Agencies (CUPA)

- Annual certification of Hazardous Material Business Plan, 02/28/2018

Humboldt Community Services District (HCSD)

- No submittals

North Coast Regional Water Quality Control Board (NCRWQCB)

- 2016-2017 Stormwater Report, 07/2018

California Coastal Commission (CCC)

- No Submittals

U.S. Army Corps of Engineers (USACE)

- No Submittals

As per project biologist recommendations in the 2016 Annual Monitoring Report for Buhne Preserve, all current mitigation objectives have been met and no further mitigation monitoring or reporting for the Buhne Point Wetlands Preserve is expected until the construction and subsequent mitigation monitoring of the Mit-1 area.

Should you have any questions or comments please do not hesitate to contact me.

Sincerely,



Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

Enclosure

cc: Chuck Holm, PG&E (electronic)

**Attachment G**  
**Projected Compliance Activities 2018**



**Humboldt Bay  
Generating Station**

1000 King Salmon Ave.  
Eureka, CA 95503-  
6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Item 7, Condition of  
Certification COM-7 (06-AFC-07C)**

Dear Mr. Winstead:

Per COM-7, item 7, we are to provide;

*“A projection of project compliance activities scheduled during the next year.”*

PG&E intends to continue reporting on the standard required compliance items. These include but are not limited to;

- Quarterly CEMS Reports;
- Semi-Annual and Annual Compliance and Operations Reports;
- Semi-Annual and Annual Certifications of Compliance;
- Annual Compliance Report;
- Notifications of source testing and associated Source Test Reports;
- Diesel operations reporting;
- Title V Permit renewal

Should you have any questions or comments please do not hesitate to contact me.

Sincerely,

Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

Enclosure

cc: Chuck Holm, PG&E (electronic)

**Attachment H**  
**Additions to On-Site Compliance Files**



**Humboldt Bay  
Generating Station**

1000 King Salmon Ave.  
Eureka, CA 95503-  
6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Item 7, Condition of  
Certification COM-7 (06-AFC-07C)**

Dear Mr. Winstead:

Per COM-7, item 8, we are to provide;

*“A listing of the year’s additions to the on-site compliance files.”*

All of the above noted items in Attachment F which were submitted to agencies other than the CEC, as well as those items submitted to the CEC, have been added to the site compliance files.

Should you have any questions or comments please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Ryan Messinger'.

Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

Enclosure

cc: Chuck Holm, PG&E (electronic)

**Attachment I**  
**Contingency Plan Evaluation**



**Humboldt Bay  
Generating Station**

1000 King Salmon Ave.  
Eureka, CA 95503-  
6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Item 7, Condition of  
Certification COM-7 (06-AFC-07C)**

Dear Mr. Winstead:

Per COM-7, item 9, we are to provide;

*“An evaluation of the on-site contingency plan for unplanned facility closure, including any suggestions necessary for bringing the plan up to date.”*

A review of the Site Contingency Plan was conducted in September 2018 by plant personnel. During the review of the plan, it was determined the plan was up to date.

Should you have any questions or comments please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Ryan Messinger'.

Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

Enclosure

cc: Chuck Holm, PG&E (electronic)

**Attachment J**  
**Complaints / NOV's / Citations**



**Humboldt Bay  
Generating Station**

1000 King Salmon Ave.  
Eureka, CA 95503-  
6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Item 7, Condition of Certification COM-7 (06-AFC-07C)**

Dear Mr. Winstead:

Per COM-7, item 10, we are to provide;

“A listing of complaints, notices of violation, official warnings, and citations received during the year, a description of the resolution of any resolved matters, and the status of any unresolved matters.”

No notices of violation, or official warnings or citations received between October 1, 2017 and September 30, 2018.

However, HBGS experienced one breakdown in April 2018 (Unit 4). The breakdown report is included as an attachment for reference.

PG&E received three citizen complaints in 2018 (7/30, 9/13, and 12/7). All three complaints were resolved.

Should you have any questions or comments please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Ryan Messinger'.

Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

Enclosure

cc: Chuck Holm, PG&E (electronic)



**Humboldt Bay** 1000 King Salmon Ave.  
**Generating Station** Eureka, CA 95503-6859

HBGS-ENV-133

April 12, 2018

Mr. Al Steer, Compliance and Enforcement Manager  
North Coast Unified Air Quality Management District  
707 L Street  
Eureka, CA 95501

**RE: Humboldt Bay Generating Station Breakdown Report, Title V NCU 059-12, Condition 67**

Dear Mr. Steer:

Enclosed is the Breakdown Report for an incident that occurred at Pacific Gas and Electric Company's (PG&E) Humboldt Bay Generating Station on Tuesday, April 2, 2018. The District was informed of the event at approximately 11:00 on April 3, 2018 via phone call with Al Steer and follow up email.

Pursuant to the terms of the operating permit, PG&E is submitting the enclosed Breakdown Report.

If you have questions or require additional information, please contact me at 707-269-1810.

Respectfully,

A handwritten signature in blue ink that reads 'Scott Washington'.

Scott Washington  
Humboldt Bay Generating Station  
Sr. Environmental Field Specialist

Enclosures

cc: Al Steer, NCUAQMD (electronic)  
Chuck Holm, PG&E (electronic)

# NORTH COAST UNIFIED AIR QUALITY MANAGEMENT DISTRICT

707 L STREET

EUREKA, CA 95501

707/443-3093

Fax 707/443-3099

## BREAKDOWN REPORT

COMPANY: Pacific Gas and Electric

LOCATION: Humboldt Bay Generating Station

**NATURE OF EQUIPMENT BREAKDOWN:** During the evening of April 2, 2018, HBGS experienced an exceedance for NOx pounds per hour during a startup event on Unit 4. HBGS emitted 27.0 pounds of NOx during startup hour, with a limit of 23.6 pounds.

The exceedance was a direct result of an equipment breakdown on Unit 10, during Unit 4's startup event. The waste gate actuator on Unit 10 failed, which required the operator's devoted attention. While focused on Unit 10's breakdown, the operator was unable to notice Unit 4's ammonia system had been left in manual mode, instead of automatic mode, following maintenance activities earlier in the day. Upon realization of the issue (43 minutes after startup), the ammonia system on Unit 4 was immediately placed back into automatic, and the emissions were brought back into compliance. However, by the time the operator restored the ammonia flow on Unit 4, HBGS had exceeded the NOx pounds per hour for the startup event, following 43 minutes of startup with no ammonia flow.

If the operator's attention was not devoted to Unit 10's breakdown, they would have been able to identify the issue on Unit 4 soon enough to avoid the exceedance event.

EMISSION SOURCE AFFECTED BY BREAKDOWN Unit S-4

### PERIOD OF EXCESS EMISSIONS

	<u>Start</u>	<u>Ended</u>
DATE:	<u>04/02/2018</u>	<u>04/02/2018</u>
TIME:	<u>19:04</u>	<u>20:04</u>

ESTIMATED EXCESS EMISSIONS: 27.0 pounds of NOx emitted against a limit of 23.6 pounds (4.4 pounds of excess NOx)

**CORRECTIVE MEASURES *TO PREVENT* REOCCURRENCE:** HBGS will be programming an Ammonia System indication on each unit's startup screen, this will allow the operators to see the status of the ammonia system prior to starting each engine (this indication is currently on a screen that is not typically pulled up prior to or during a startup event).

HBGS will also be instituting a troubleshooting guide to utilize when performing tasks with potential impacts to Safety, Environment, or Production. This guide will require the technicians performing the work to tailboard the risks with operations (pre- and post-job), maintain a log of steps performed along with steps taken to return the equipment to its normal state. HBGS will also institute new standing orders with instructions on closing out these tasks. HBGS will also be creating standing orders for operators to remind them to check status of ammonia system prior to startup.

HBGS will also be changing the ammonia status indication from an event to an alarm; alarm will not clear until the ammonia system is returned to auto. HBGS has already tailboarded the crew to ensure they were aware of the incident and the potential for this to occur, stressing the importance of 3-way communication.

TELEPHONE REPORT BY: Chuck Holm DATE: 04/03/2018 TIME: 11:00

WRITTEN REPORT BY: Scott Washington TITLE: EFS DATE: 04/12/2018

ATTACHMENT A

COMPLAINT REPORT/RESOLUTION FORM

PROJECT NAME: AFC Number:
COMPLAINT LOG NUMBER <u>10101924</u> <u>2018-01</u> HBOS ID Number: Complainant's name and address: <u>STAN HARRIS</u> <u>1237 King Salmon Ave, Eureka, CA 95503</u>
Phone number: <u>707 407 0180</u>
Date and time complaint received: <u>07/30/2018</u> Indicate if by telephone or in writing (attach copy if written): Date of first occurrence: <u>Unknown</u>
Description of complaint (including dates, frequency, and duration): <u>P6+E vehicles blocking residential garage</u>
Findings of investigation by plant personnel: <u>Not an HBOS issue - issue belongs to HBPP decommissioning.</u>
Indicate if complaint relates to violation of a CEC requirement: Date complainant contacted to discuss findings: _____
Description of corrective measures taken or other complaint resolution: <u>This complaint was forwarded to management personnel at HBPP Decommissioning.</u>
Indicate if complainant agrees with proposed resolution: If not, explain:  Other relevant information:
If corrective action necessary, date completed: _____ Date first letter sent to complainant: _____ (copy attached) Date final letter sent to complainant: _____ (copy attached)
This information is certified to be correct. Plant Manager's Signature: <u>[Signature]</u> Date: <u>8/2/18</u>

(Attach additional pages and supporting documentation, as required.)

Case Info	Open - Open, OM&C Electric, 2 Days Old, Sandoval,Kelvin, Created: 07-30-2018 10:11AM	Case ID	10101924
Case Type	OMCELEC	OM&C Electric	
Status	Open	Case has 1 Open and 0 Completed To Do entries.	
Date/Time Opened	07-30-2018 10:11AM		
Actions	<b>Critical</b>	<b>In Progress</b>	<b>Complete</b>
	<b>Cancel</b>	<b>Redirect</b>	

Comment: P/ STAN, HE IS TIRED OF PGE TRUCKS PARKING BLOCKING HIS GARAGE. HE HAS COMPLAINED BEFORE AND THEY APOLOGIZE BUT KEEP DOING IT. HE LIVES BEHIND THE HUMBOLT POINT POWER PLANT AND THIS HAS BEEN AND ON GOING PROBLEM-- previous case for same reason b4/ upset and threatening to go

Person: 3025245774 HARRIS,STAN M - Home Phone - Primary: (707) 407-0180

Account: 4087733433 HARRIS,STAN M - Residential

Premise: 3056463682 1237 KING SALMON AVE, EUREKA, CA, 955036822370, USA, Residential Detached House, 30'

Responsible User: K3SR Sandoval, Kelvin

Contact Information

Contact Instructions: fur phone stan

Callback Phone Type: Home Phone - Primary

Callback Phone Number: (707) 407-0180 Extension: Phone Format: (999) 999-9999

Characteristics		Characteristic Type	Characteristic Value
		Transaction Type	COMPLAINT  Complaint
		Customer Follow up Required	PHONE  Phone

P/ STAN, HE IS TIRED OF PGE TRUCKS PARKING BLOCKING HIS GARAGE. HE HAS COMPLAINED BEFORE AND THEY APOLOGIZE BUT KEEP DOING IT. HE LIVES BEHIND THE HUMBOLT POINT POWER PLANT AND THIS HAS BEEN AND ON GOING PROBLEM-- previous case for same reason b4/ upset and threatening to go to media

ATTACHMENT A

COMPLAINT REPORT/RESOLUTION FORM

<p><b>PROJECT NAME:</b> AFC Number:</p>
<p><b>COMPLAINT LOG NUMBER</b> <u>2018-02</u> Complainant's name and address: <u>California Office of Emergency Services - Blake Tyson</u></p>
<p>Phone number: <u>510 286 0895</u></p>
<p>Date and time complaint received: Indicate if by telephone or in writing (attach copy if written): Date of first occurrence:</p>
<p>Description of complaint (including dates, frequency, and duration): <u>Sept 13, 2018 2000</u> <u>Unknown person on east coast called California DES and reported that they saw radiation leakage in Northern California</u></p>
<p>Findings of investigation by plant personnel: <u>Information was forwarded to Lewis Mayfield (ISFSI Manager)</u> <u>No radiation detectors had gone off and information was provided to</u> Indicate if complaint relates to violation of a CEC requirement: <u>DES</u> Date complainant contacted to discuss findings: _____</p>
<p>Description of corrective measures taken or other complaint resolution: <u>Radiation Equipment checked and return call to DES</u></p>
<p>Indicate if complainant agrees with proposed resolution: If not, explain:</p>
<p>Other relevant information:</p>
<p>If corrective action necessary, date completed: _____ Date first letter sent to complainant: _____ (copy attached) Date final letter sent to complainant: _____ (copy attached)</p>
<p>This information is certified to be correct. Plant Manager's Signature: <u>[Signature]</u> Date: <u>9/14/18</u></p>

(Attach additional pages and supporting documentation, as required.)

ATTACHMENT A

COMPLAINT REPORT/RESOLUTION FORM

<b>PROJECT NAME:</b> <b>AFC Number:</b>
<b>COMPLAINT LOG NUMBER</b> <u>2018 03</u> <i>Complainant's name and address:</i> Voice message a woman named Shelly from Weaverville, CA. No other information given Phone number: <u>Caller ID 530 739 9327 - no number provided in VM</u>
<i>Date and time complaint received:</i> December 07, 2018 at~1034 Indicate if by telephone or in writing (attach copy if written): <i>Date of first occurrence:</i> December 07, 2018
<i>Description of complaint (including dates, frequency, and duration):</i> Voice message claimed that air commission is saying the facility increased the pollution emissions and the person made a vulgar comment saying they want to know what were putting into the air. Note that the complaint was more of a statement than a request for information.
<i>Findings of investigation by plant personnel:</i> Plant manager called the caller ID number on December 08, 2018 at 1201. The phone went straight to voice mail and the mailbox was full not allowing a message. Indicate if complaint relates to violation of a CEC requirement: <i>Date complainant contacted to discuss findings:</i> _____
<i>Description of corrective measures taken or other complaint resolution:</i> Plant manager will continue to try and make contact at number provided by caller ID.  Indicate if complainant agrees with proposed resolution: If not, explain:  <i>Other relevant information:</i>
If corrective action necessary, date completed: _____ Date first letter sent to complainant: _____ (copy attached) Date final letter sent to complainant: _____ (copy attached)
This information is certified to be correct. Plant Manager's Signature: <u>Charles Holm</u> Date: 12/8/18

**(Attach additional pages and supporting documentation, as required.)**

**Attachment K**  
**COM-13 Incidents**



**Humboldt Bay  
Generating Station** 1000 King Salmon Ave.  
Eureka, CA 95503-  
6859

Mr. Keith Winstead  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 15  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Annual Compliance Report, Condition of Certification  
COM-13 (06-AFC-07C)**

Dear Mr. Winstead:

Per the recently received COM-13 memo, HBGS encountered an incident in January of 2018. The COM-13 incident report was provided to the CEC within the required six day timeframe, and is included as an attachment here for reference.

Should you have any questions or comments please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Ryan Messinger'.

Ryan Messinger  
Environmental Compliance Manager  
Humboldt Bay Generating Station

Enclosure

cc: Chuck Holm, PG&E (electronic)

HBGS-CEC-166

January 25, 2018

Ms. Mary Dyas  
Compliance Project Manager  
California Energy Commission  
Siting, Transmission, and Environmental Protection Division  
1516 Ninth Street, MS 2000  
Sacramento, California 95814-5512

**RE: Humboldt Bay Generating Station Condition of Certification COM-13, Incident Report  
for January 17, 2018; (06-AFC-07C)**

Dear Ms. Dyas:

Attached for your review is an incident report for an incident that occurred on Wednesday, January 17, 2018, pursuant to Humboldt Bay Generating Station (HBGS) Condition of Certification COM-13.

This incident report follows the 12-point template received as part of the May 23, 2017 notification of this new reporting obligation.

- **Item 1:** A brief description of the incident, including its date, time, and location;

On January 17, 2018, HBGS experienced a small fire on Unit S-6. The unit was just brought back online following a maintenance outage where a gas valve and its associated o-ring were replaced. The unit had been operational for approximately 2 hours prior to the fire.

At approximately 18:50, operations heard a low rumbling noise from the engine hall and a loud popping noise, followed by a high gas flow alarm on cylinder A7 on Unit S-6 and an activation of the engine hall fire system.

Operations immediately focused the engine hall cameras onto Unit S-6, and saw an active fire.

The sprinkler system actuated immediately, as designed.

Operations immediately hit the emergency stop button on Unit S-6. Hitting the emergency stop isolated the fuel supply, helping to end the fire.

From the time the popping noise was heard to when the engine was fully shut down was less than two minutes.

All personnel are safe and accounted for.

The local fire department was contacted, and arrived onsite. By the time the fire department had responded, the fire was already put out by the sprinkler system and isolation of the fuel supply. However, the fire department remained onsite to ensure the engine hall was safe to enter and that there were no additional flare-ups.

- Item 2: A description of the cause of the incident, or likely causes if it is still under investigation;

Initial investigation of the engine indicates there was a failed o-ring on the gas valve of cylinder A7. The failure of the o-ring allowed high pressure gas to escape and combust, resulting in the fire. The reason for the failure is unknown at this time. HBGS continues to investigate the root cause of the failure.

- Item 3: The location of any off-site impacts;

At this time, there are no known off-site impacts.

All fire suppression water was captured within the engine hall.

Since the fire only lasted moments, and was a result of ignition of natural gas, the resulting smoke was very minor and the engine hall was ventilated within minutes.

- Item 4: Description of any resultant impacts;

Unit S-6 remains forced out, resulting in a loss of generation of 16.3 MW at HBGS. Inspections and repairs are ongoing.

The damage to the engine appears to be minor, due to the activation of the fire system and the rapid reaction from the operations crew.

- Item 5: A description of emergency response actions associated with the incident;

Unit S-6 was immediately shut down.

Engine hall fire system actuated and extinguished the fire.

Local fire department was dispatched to ensure engine hall was safe to enter and that the fire had been extinguished.

- Item 6: Identification of responding agencies;

Humboldt Bay Fire Department responded to the site.

- Item 7: Identification of emergency notifications made to federal, state, and/or local agencies;

The CPUC, the CEC, the NCUAQMD, and internal PG&E notifications were made (in addition to local fire department).

- Item 8: Identification of any hazardous materials released and an estimate of the quantity released;

There were no releases of any materials as a result of this incident.

- Item 9: A description of any injuries, fatalities, or property damage that occurred as a result of the incident;

No injuries resulted from this incident.

The damage to the engine appears to be wiring and small components, centered around cylinder A7.

Maintenance is working to restore the engine.

- Item 10: Fines or violations assessed or being processed by other agencies;

There are no fines or violations anticipated at this time.

- Item 11: Name, phone number, and e-mail address of the appropriate facility contact person having knowledge of the event;

Chuck Holm, Plant Manager  
707-441-2667  
[C3HX@pge.com](mailto:C3HX@pge.com)

- Item 12: Corrective actions to prevent a recurrence of the incident.

Investigate the cause of the o-ring failure through an apparent cause evaluation.  
Review work processes to identify any process improvements.  
Review installation to identify ways to detect failure or potential failure prior to engine being placed into service.

If you have any questions regarding the enclosed, please contact me, at (707) 441-2667.

Respectfully,

Chuck Holm, Plant Manager  
Humboldt Bay Generating Station  
1000 King Salmon Avenue  
Eureka, CA 95503

Enclosures

cc: Steve Royall, PG&E (electronic)  
Scott Washington, PG&E (electronic)