

NPDES PERMIT NO. PR0025984

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, 33 U.S.C. § 1251 et. seq. (the "Act"),

EcoElectrica LNG Terminal and Cogeneration Project
Road 337 Firm Delivery
Peñuelas, Puerto Rico 00624

hereinafter referred to as "the permittee" is authorized to discharge from a facility located at

State Road No. 337, Km. 3.7
Peñuelas, Puerto Rico 00624

to receiving water

Guayanilla Bay

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof. All references to Title 40 of the Code of Federal Regulations are to regulations that are in effect on the effective date of this permit, including all amendments thereto published in the Federal Register. Unless otherwise specified herein, all terms are defined as provided in the applicable regulations under Title 40 of the Code of Federal Regulations.

This permit modification shall become effective on the Effective Date of Permit Modification (EDPM).

This permit and the authorization to discharge shall expire at midnight, October 31, 2011.

Signed this day of

Barbara A. Finazzo
Director
Division of Environmental Planning
and Protection
U.S. Environmental Protection Agency
Region 2

PART I: LIMITS AND MONITORING REQUIREMENTS

During the period beginning on EDPM and lasting through October 31, 2011, the permittee is authorized to discharge from outfall serial number 001 treated cooling tower blowdown (streams from neutralization system and oil/water separators) and treated sanitary wastewater. Such discharge shall be limited and monitored by the permittee as specified below:

TABLE A-1 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

<u>Effluent Characteristics</u>	<u>Gross Discharge Limitations</u> Kg/day (lbs/day) or Other Units (specified)		<u>Monitoring Requirements</u>	
	Monthly Average	Daily Maximum	Measurements Frequency	Sample Type
Arsenic (As) (ug/l) ^{2,3,4}		----	φ	Grab
BOD ₅ (mg/l) ^{1,2,3}		30.0	Monthly	Composite
Color (Pt-Co units) ^{2,3} +	Shall not be altered by other natural phenomena except when it can be proven that such change in color is harmless to biota and aesthetically acceptable.		Monthly	Grab
Copper (Cu) (μg/l) ^{2,3,+}		3.1	Monthly	Grab

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	Monthly Average	Daily Maximum	Measurements Frequency	Sample Type
Cyanide (CN) (µg/l) ^{2,3,4} ***		1	Monthly	Grab
Dissolved Oxygen (mg/l) ^{1,2,3}	Shall not contain less than 4.0.		Daily	Grab
Flow m ³ /day (MGD) ^{1,3,5}		8.10 x 10 ⁴ (21.4)	Continuous Recording	
Free Available Chlorine ¹ (mg/l)	0.2 (Daily Average)	0.5	Daily	Multiple Grab ⁱⁱ
Mercury (Hg) (µg/l) ^{2,3****} +		0.051	Monthly	Grab
Oil and Grease (mg/l) ^{2,3}	The waters of Puerto Rico shall be substantially free from floating non-petroleum oils and greases as well as petroleum derived oils and greases.		----	----
Oil and Grease (mg/l)	15.0	20.0	Twice per month	Grab
pH (SU) ^{2,3}	Shall always lie between 7.3 and 8.5.		Daily	Grab

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	Monthly Average	Daily Maximum	Measurements Frequency	Sample Type
Polychlorinated Biphenyls (PCBs)	There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid.		----	----
Residual Chlorine (mg/l) ^{2,3} ** @		0.50	Daily	Grab
Solids and Other Matter ²	The waters of Puerto Rico shall not contain floating debris, scum and other floating material attributable to discharges in amounts sufficient to be unsightly or deleterious to the existing or designated uses of the waterbody.		----	----
Sulfide (µg/l) (undissociated H ₂ S) ^{2,3*} + Ψ		----	φ	Grab
Suspended, Colloidal or Settleable Solids (ml/l) ^{1,2,3} ##	Solids from wastewater sources shall not cause deposition in or be deleterious to the existing or designated uses of the waters.		β	Grab

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	Kg/day (lbs/day) or Other Units (specified)		Measurements Frequency	Sample Type
	Monthly Average	Daily Maximum		
Taste and Odor Producing Substances ^{2,3}	Shall contain none in amounts that render any undesirable taste or odor to edible aquatic life.		----	----
Temperature °F (°C) ^{2,3}	Except by natural causes, no heat may be added to the waters of Puerto Rico which would cause the temperature of any site to exceed 90°F (32.2°C). No thermal discharge or combination of thermal discharges into or onto the surface, estuarine and coastal waters shall be injurious to fish or shellfish or the culture or propagation of a balanced indigenous population there of nor in any way affect the designated uses.		Daily	Grab
Total Chromium (mg/l)	0.2	0.2	Weekly	Grab
Total Suspended Solids	30.0	100.0	Twice per month	Composite
Turbidity (NTU) ^{2,3} +		10	Monthly	Grab
Zinc (Zn) (µg/l) ^{2,3,4} +		81.00	Monthly	Grab

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	Monthly Average	Daily Maximum	Measurements Frequency	Sample Type
126 Priority Pollutants ³	No detectable amount of the pollutants listed. See Appendix A on page 9.		One per year	0

Table A-1 Notes:

For superscripts 1, 2, 3, 4, 5 and 6 see endnotes to the Special Conditions.

To comply with the monitoring requirements specified above, samples shall be taken at point of discharge 001.
All flow measurements shall achieve accuracy within the range $\pm 10\%$.

*** See Special Condition No. 8.

** See Special Conditions 4 and 6.

* See Special Condition No. 7.

The permittee shall perform the tests for Settleable Solids.

+ Gross Discharge Limitation If the applicable Water Quality Standard (WQS) is not exceeded in the inlet, the effluent limitation (applicable WQS) established herein shall not be exceeded at the discharge point 001.

No Net Addition Limitation

If the applicable WQS is exceeded in the inlet, the same measurement shall be achieved at the discharge point 001. In order to demonstrate compliance with the No Net Addition Limitation, influent and effluent monitoring must be conducted at the frequency specified herein. The permittee shall account for the residence time of the influent when scheduling influent and effluent monitoring. The permittee shall report the results of these measurements in the Discharge Monitoring Reports. Alternatively, the permittee may forego influent monitoring and comply with the Gross Discharge Limitation.

- @ To determine compliance with the Residual Chlorine effluent limitation in the discharge point 001, the sampling shall be realized in the discharge point 001.
- β This parameter shall be monitored monthly. If the results obtained reflect violations to the effluent limitation of the parameter during two (2) consecutive months, the monitoring shall be performed daily until compliance with the corresponding effluent limitations is demonstrated during at least thirty (30) consecutive days, after which the monitoring for such parameter shall be performed monthly.
- φ The permittee shall implement a monthly monitoring program using the analytical method approved by EPA with the lowest possible detection level, in accordance with Section 6.2.3 of the PRWQSR as amended, for one (1) year period, after which they will be conducted annually. The monitoring program shall commence no later than thirty (30) days after the EQB's written approval of the Quality Assurance Project Plan (QAPP). The QAPP must be submitted for evaluation and approval of EQB no later than thirty (30) days after the EDP. The results of the monitoring program shall be submitted to EQB and EPA-Region II no later than sixty (60) days of completion of the one year monitoring program. Based on the evaluation of the results obtained, EQB will determine if an effluent limitation is necessary for this parameter. In such case the WQC will be reopened to include the applicable effluent limitation if considered necessary.
- Ψ The permittee shall use the approved EPA analytical method with the lowest possible detection limit, currently, EPA Method 376.2, Standard Methods 4500-S2- D (18th Edition), or HACH Company Method 8131 for the determination of the dissolved Sulfide (as S) concentration in the sample. Using the dissolved Sulfide concentration, the permittee shall calculate the Undissociated Hydrogen Sulfide concentration using Standard Methods Method 4500-S2- F (18th Edition). If the sample result for dissolved Sulfide is below the detection limit of EPA Method 376.2 or Standard Methods 4500-S2- D (18th Edition), i.e., < 100 µg/l, then the permittee has demonstrated that the sample result for Undissociated Hydrogen Sulfide is below that same detection limit, and that compliance with the permit limit of 2 µg/l for Undissociated Hydrogen Sulfide was achieved.

- i Neither Free Available Chlorine (FAC) nor Total Residual Chlorine (TRC) may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge FAC or TRC at any one time unless the utility can demonstrate to the EPA that units in a particular location cannot operate at or below this level of chlorination.
- ii Multiple grabs shall consist of grab samples collected at the approximate beginning of FAC discharge and once every fifteen (15) minutes thereafter until the end of FAC discharge. "Daily Average" as it applies to FAC means the average values taken over any individual chlorine release period, and "Daily Maximum" as it applies to FAC means the instantaneous maximum at any time.
- iii This limitation applies to all priority pollutants except zinc and chromium. Discharge of any product registered under the Federal Insecticide, Fungicide and Rodenticide Act is prohibited unless specifically authorized elsewhere in the permit. The first monitoring/sampling event shall be performed within six (6) months following commencement of discharge, and at twelve (12) month intervals thereafter.

Flow-proportioned or time-proportioned composite, unless grab sample, are required by 40 CFR 136.