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 Penuelas, 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 November 1, 2010. This permit and the authorization to discharge shall expire at midnight, October 31, 2011.

Signed this 30 day of September 2010

Barbara Fridappo Barbara Finazzo

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

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TABLE A-1 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

| Effluent Characteristics | Gross Discharge Limitations | | | | Monitoring Requirements | |
|--|---|--|---|--|--------------------------|----------------|
| | kg/day (lbs/day) | | Other Units (specified) | | Measurement Frequency | Sample Type |
| | Monthly Avg. | Daily Max. | Monthly Avg. | Daily Max. | | |
| 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 alter proven that such acceptable. | red by other nature change in color i | ral phenomena excep is harmless to biota a | ot when it can be and aesthetically | Monthly | Grab |
| Copper (Cu) (µg/l) ^{2,3,} + | | | | 3.1 | Monthly | Grab |
| Cyanide (CN) (µg/l) ^{2,3,4} *** | | | | 1 | Monthly | Grab |
| Dissolved Oxygen (mg/l) ^{1,2,3} | Shall not contair | n less than 4.0. | | | Daily | Grab |

TABLE A-1 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

| Effluent Characteristics | | Gross Disc | Monitoring Requirements | | | |
|--|---|-----------------|-------------------------|----------------------------------|--------------------------|-----------------------------|
| | kg/day (| lbs/day) | Other Units (specified) | | Measurement Frequency | Sample Type |
| | Monthly Avg. | Daily Max. | Monthly Avg. | Daily Max. | | |
| Flow m^3/day (MGD) ^{1,3,5} | | | | 8.10 x 10 ⁴ (21.4) | Continuo | us Recording |
| Free Available Chlorine ⁱ (mg/l) | | | 0.2 (Daily Average) | 0.5 | Daily | Multiple Grab ⁱⁱ |
| Mercury (Hg) (μ g/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 | | | | | |
| Oil and Grease (mg/l) | | | 15.0 | 20.0 | Twice per Month | Grab |
| pH (SU) ^{2,3} | Shall always lie | between 7.3 and | d 8.5. | | Daily | Grab |

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| Effluent Characteristics | Gross Discharge Limitations | | | | Monitoring Requirements | |
|---|---|--|-------------------------|------------|--------------------------|----------------|
| | kg/day (lbs/day) | | Other Units (specified) | | Measurement Frequency | Sample Type |
| | Monthly Avg. | Daily Max. | Monthly Avg. | Daily Max. | | |
| 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 Pu other floating ma to be unsightly of waterbody. | he waters of Puerto Rico shall not contain floating debris, scum and her floating material attributable to discharges in amounts sufficient be unsightly or deleterious to the existing or designated uses of the aterbody. | | | | |
| Sulfide (µg/l) (undissociated H ₂ S) 2,3 + \$ | | | | | φ | Grab |

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| Effluent Characteristics | Gross Discharge Limitations | | | | Monitoring Requirements | |
|---|--|--|--|--|--------------------------|----------------|
| | kg/day (lbs/day) | | Other Units (specified) | | Measurement Frequency | Sample Type |
| | Monthly Avg. | Daily Max. | Monthly Avg. | Daily Max. | | |
| Suspended, Colloidal or Settleable Solids (ml/l) ^{1,2,3} ## | Solids from was deleterious to the | tewater sources s e existing or desig | β | Grab | | |
| 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 natura Puerto Rico whi 90°F (32.2°C). discharges into c be injurious to fi balanced indigen designated uses. | al causes, no heat ch would cause th No thermal disch or onto the surface sh or shellfish or nous population th | may be added to the ne temperature of any arge or combination e, estuarine and coas the culture or propa hereof nor in any wa | e waters of y site to exceed of thermal tal waters shall gation of a y affect the | Daily | Grab |

TABLE A-1 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on November 1, 2010 and lasting through October 31, 2011, the permittee is authorized to discharge from outfall serial number 001 cooling tower blowdown (cooling tower blowdown; heat recovery steam generator blowdown; desalinization plant brine blowdown; backwash water from the remineralization system (demineralizer wastewater, laboratory drains (wastewaters from sample analysis equipment and glassware cleaning), tank washed and chemical dike drains, and demineralizer backwash); and treated stream from the oil/water separators (oily water from plant floor drains and equipment drain lines, and remineralizer drains). Such discharge shall be limited and monitored by the permittee as specified below:

| Effluent Characteristics | Gross Discharge Limitations | | | | Monitoring Requirements | |
|---|---|------------|-------------------------|---------------|--------------------------|----------------|
| | kg/day (lbs/day) | | Other Units (specified) | | Measurement Frequency | Sample Type |
| | Monthly Avg. | Daily Max. | Monthly Avg. | Daily Max. | | |
| Total Chromium (mg/l) | | | 0.2 | 0.2 | Weekly | Grab |
| Total Suspended Solids (mg/l) | | | 30.0 | 100.0 | Twice per Month | Composite |
| Turbidity (NTU) ^{2,3} + | | | | 10 | Monthly | Grab |
| Zinc (Zn) (μ g/l) ^{2,3,4} + | | | | 81.00 | Monthly | Grab |
| 126 Priority Pollutants ⁱⁱⁱ | No detectable amount of the pollutants listed. See Appendix A on page 9. | | | Once per year | Composite | |

1, 2, 3, 4, 5 and 6 see page / of the Special Conditions.

Notes:

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 of $\pm 10\%$.

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- * See Special Condition 7.
- ** See Special Conditions 4 and 6.
- *** See Special Condition 8.
- @ To determine compliance with the Residual Chlorine effluent limitation in the discharge point 001, the sampling shall be realized in the discharge point 001A.
- 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.
- + 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.

- φ The permittee shall implement a monthly 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 December 1, 2006. 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.
- \$ 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

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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., $< 100 \mu g/l$, 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 $\mu g/l$ for Undissociated Hydrogen Sulfide was achieved.

- ## The permittee shall perform the tests for Settleable Solids.
- 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 composites, unless grab samples, are required by 40 CFR 136.