

## DOCKETED

<b>Docket Number:</b>	15-AFC-01
<b>Project Title:</b>	Puente Power Project
<b>TN #:</b>	214005-3
<b>Document Title:</b>	FDOC Appendix A
<b>Description:</b>	N/A
<b>Filer:</b>	Raquel Rodriguez
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<b>Submitter Role:</b>	Public
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<b>Docketed Date:</b>	10/14/2016

# Appendix A

## Current Permitted Emissions

**PEETS PERMIT ONLY - NOT MAILED**  
Number 00013

Valid July 1, 2016 to June 30, 2017

**This Permit Has Been Issued To The Following:**

Company Name / Address:

NRG California South LP  
393 North Harbor Blvd.  
Oxnard, CA 93035

Facility Name / Address:

Mandalay Generating Station  
393 North Harbor Blvd.  
Oxnard, CA 93035

**Permission Is Hereby Granted To Operate The Following:**

- 1 - 1990 MMBTU/hr Babcock and Wilcox, rated at 215 MW, Steam Generator (Unit No. 1), equipped with a SCR with NH3 Injection and Low NOx combustion system
- 1 - 1990 MMBTU/hr Babcock and Wilcox, rated at 215 MW, Steam Generator (Unit No. 2), equipped with a SCR with NH3 Injection
- 1 - 2510 MMBTU/hr Turbine Peaking Unit (Unit No. 3)
- 1 - 14650 Gallon Aqueous Ammonia Storage Tank
- 1 - 201 BHP Generac Diesel-Fired Emergency Standby Engine, Model 96A-00728-5, Serial No. 2025978, for emergency electricity generation
- 1 - 154 BHP Perkins England Diesel-Fired Emergency Standby Engine, Model 1006-GT, Serial No. 97-280426-00.001, used for fire suppression

**This Permit Has Been Issued Subject To The Following Conditions:**

- | 1. Permitted Emissions | Tons/Year | Pounds/Hour |
|------------------------|-----------|-------------|
| Reactive Organics      | 23.99     | 23.47       |
| Nitrogen Oxides        | 222.74    | 1,146.00    |
| Particulate Matter     | 43.52     | 58.10       |
| Sulfur Oxides          | 10.02     | 3.72        |
| Carbon Monoxide        | 675.52    | 427.98      |
| Ammonia                | 78.03     | 17.82       |
2. For permit conditions, see Title V permit, valid January 1, 2014 to December 31, 2018.

Within 30 days after receipt of this permit, the permittee may petition the Hearing Board to review any new or modified condition (Rule 22).

This permit, or a copy, shall be posted reasonably close to the subject equipment and shall be accessible to inspection personnel (Rule 19). This permit is not transferable from one location to another unless the equipment is specifically listed as being portable (Rule 20).

VCAPCD Permit To Operate Number 00013  
Issued To Mandalay Generating Station  
Valid July 1, 2016 to June 30, 2017

This Permit to Operate shall not be construed to allow any emission unit to operate in violation of any state or federal emission standard or any rule of the District.

For:

Terri Thomas  
Engineering Division

Michael Villegas  
Air Pollution Control Officer

# Permitted Emissions Summary

## Criteria Pollutants

**00013-REN Mandalay Generating Station**

Permit Period: 7/1/2016 to 6/30/2017

Equipment	Tons per Year					Pounds Per Hour				
	ROC	NOx	PM	SOx	CO	ROC	NOx	PM	SOx	CO
1 - 1990 MMBTU/hr Babcock and Wilcox, rated at 215 M	23.24	176.98	41.51	9.96	664.09	5.31	40.41	9.48	2.27	151.62
1 - 2510 MMBTU/hr Turbine	0.75	45.64	2.01	0.06	11.41	18.07	1104.41	48.53	1.43	276.10
1 - 201 BHP Generac Diesel-Fired Emergency Standby En	0.00	0.07	0.00	0.00	0.01	0.05	0.67	0.05	0.01	0.15
1 - 154 BHP Perkins England Diesel-Fired Emergency Stan	0.00	0.05	0.00	0.00	0.01	0.04	0.51	0.04	0.01	0.11
<b>Total</b>	<b>23.99</b>	<b>222.74</b>	<b>43.52</b>	<b>10.02</b>	<b>675.52</b>	<b>23.47</b>	<b>1146.00</b>	<b>58.10</b>	<b>3.72</b>	<b>427.98</b>

Also has Other Pollutants-See Inorganic Compounds Summary

# Permitted Emissions Summary

## Inorganic Compounds

**00013-REN Mandalay Generating Station**

Permit Period: 7/1/2016 to 6/30/2017

Equipment	Tons per Year				Pounds Per Hour			
	NH3	Cl2	HCl	H2S	NH3	Cl2	HCl	H2S
1 - 1990 MMBTU/hr Babcock and Wilcox, rated at 215 M	78.03	0.00	0.00	0.00	17.82	0.00	0.00	0.00
1 - 2510 MMBTU/hr Turbine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 - 201 BHP Generac Diesel-Fired Emergency Standby En	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1 - 154 BHP Perkins England Diesel-Fired Emergency Stan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>78.03</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>17.82</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Also has Criteria Pollutants-See Criteria Pollutants Summary

## Equipment and Emissions Summary

00013 - REN Mandalay Generating Station Permit Period: 7/1/2016 to 6/30/2017 SIC Code 4911 - Electricity Generation

DEVICE NO: 10353 1 - 1990 MMBTU/hr Babcock and Wilcox, rated at 215 MW, Steam Generator (Unit No. 1), equipped with a SCR with NH3 Injection and Low NOx combustion system

SOURCE CLASSIFICATION CODE	SCC Units	Prmt Annual Throughput	Max Hourly Throughput	Hours Per Year (if used)						
10100601 - Utility Boiler - Nat Gas	MMcf	33204.6000 MMcf	3980.0000 MMBTU NG							
POLLUTANT	Tons/Yr	Lbs/Hr	Uncntl EF	Cntl Factor	Cntl EF	APE?	HPE?	EF Over	CF Over	Control Device
Reactive Organics	23.24	5.31	1.4000	1.0000	1.4000	Y	Y		Y	
Nitrogen Oxides	176.98	40.41	10.6600	1.0000	10.6600	Y	Y	Y	Y	Selective Cat Rdxn (SCR)
Particulate Matter	41.51	9.48	2.5000	1.0000	2.5000	Y	Y		Y	
Sulfur Oxides	9.96	2.27	0.6000	1.0000	0.6000	Y	Y		Y	
Carbon Monoxide	664.09	151.62	40.0000	1.0000	40.0000	Y	Y		Y	
Ammonia	78.03	17.82	4.7000	1.0000	4.7000	Y	Y	Y	Y	

DEVICE NO: 10355 1 - 2510 MMBTU/hr Turbine Peaking Unit (Unit No. 3)

SOURCE CLASSIFICATION CODE	SCC Units	Prmt Annual Throughput	Max Hourly Throughput	Hours Per Year (if used)						
20100201 - Turbine-Natural Gas	MMcf	197.5800 MMcf	2510.0000 MMBTU NG							
POLLUTANT	Tons/Yr	Lbs/Hr	Uncntl EF	Cntl Factor	Cntl EF	APE?	HPE?	EF Over	CF Over	Control Device
Reactive Organics	0.75	18.07	7.5600	1.0000	7.5600	Y	Y	Y	Y	
Nitrogen Oxides	45.64	1104.41	462.0000	1.0000	462.0000	Y	Y	Y	Y	
Particulate Matter	2.01	48.53	20.3000	1.0000	20.3000	Y	Y	Y	Y	
Sulfur Oxides	0.06	1.43	0.6000	1.0000	0.6000	Y	Y		Y	
Carbon Monoxide	11.41	276.10	115.5000	1.0000	115.5000	Y	Y	Y	Y	

DEVICE NO: 17509 1 - 201 BHP Generac Diesel-Fired Emergency Standby Engine, Model 96A-00728-5, Serial No. 2025978, for emergency electricity generation

SOURCE CLASSIFICATION CODE	SCC Units	Prmt Annual Throughput	Max Hourly Throughput	Hours Per Year (if used)						
20200103 - Diesel ICE - g/hp-hr<1000	BHP-g<1000	4020.0000 BHP-d<1000	20.1000 BHP-d<1000	Calculate Hourly Using 200 Hrs/Yr						
POLLUTANT	Tons/Yr	Lbs/Hr	Uncntl EF	Cntl Factor	Cntl EF	APE?	HPE?	EF Over	CF Over	Control Device
Reactive Organics	0.00	0.05	1.0700	1.0000	1.0700	Y	Y		Y	
Nitrogen Oxides	0.07	0.67	15.1000	1.0000	15.1000	Y	Y		Y	
Particulate Matter	0.00	0.05	1.0800	1.0000	1.0800	Y	Y		Y	
Sulfur Oxides	0.00	0.01	2.4200	0.1000	0.2400	Y	Y		Y	Low Sulfur 0.05 fuel
Carbon Monoxide	0.01	0.15	3.2800	1.0000	3.2800	Y	Y		Y	

## Equipment and Emissions Summary

00013 - REN Mandalay Generating Station      Permit Period: 7/1/2016 to 6/30/2017      SIC Code 4911 - Electricity Generation

DEVICE NO: 17510    1 - 154 BHP Perkins England Diesel-Fired Emergency Standby Engine, Model 1006-GT, Serial No. 97-280426-00.001, used for fire suppression

SOURCE CLASSIFICATION CODE	SCC Units	Prmt Annual Throughput	Max Hourly Throughput	Hours Per Year (if used)
20200103 - Diesel ICE - g/hp-hr<1000	BHP-g<1000	3080.0000 BHP-d<1000	15.4000 BHP-d<1000	Calculate Hourly Using 200 Hrs/Yr

POLLUTANT	Tons/Yr	Lbs/Hr	Uncntl EF	Cntl Factor	Cntl EF	APE?	HPE?	EF Over	CF Over	Control Device
Reactive Organics	0.00	0.04	1.0700	1.0000	1.0700	Y	Y		Y	
Nitrogen Oxides	0.05	0.51	15.1000	1.0000	15.1000	Y	Y		Y	
Particulate Matter	0.00	0.04	1.0800	1.0000	1.0800	Y	Y		Y	
Sulfur Oxides	0.00	0.01	2.4200	0.1000	0.2400	Y	Y		Y	Low Sulfur 0.05 fuel
Carbon Monoxide	0.01	0.11	3.2800	1.0000	3.2800	Y	Y		Y	