

EXHIBIT 4
to Sierra Club Comments



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BACT Determination Detail

Category

Source Category: ICE: Spark Ignition, Natural Gas

SIC Code

NAICS Code 2211

Emission Unit Information

Manufacturer: Wartsila

Type: 4-cycle, lean burn

Model: 18V220SG

Equipment Description:

Capacity / Dimentions 3870 hp

Fuel Type Natural Gas

Multiple Fuel Types

Operating Schedule (hours/day)/(days/week)/(weeks/year)e Variable (//)

Function of Equipment 16 engines driving generators, 44 MW peaking plant

Bact Information

NOx Limit	9
NOx Limit Units	ppmvd @ 15% O2
NOx Average Time	
NOx Control Method	
NOx Control Method Desc	SCR
NOx Percent Control Efficiency	
NOx Cost Effectiveness (%/ton)	
NOx Incremental Cost Effectiveness (%/ton)	
NOx Cost Verified (Y/N)	
NOx Dollar Year	
CO Limit	56
CO Limit Units	ppmvd @ 15% O2
CO Average Time	
CO Control Method	
CO Control Method Desc	Oxidation catalyst
CO Percent Control Efficiency	
CO Cost Effectiveness (%/ton)	
CO Incremental Cost Effectiveness (%/ton)	

CO Cost Verified (Y/N)

CO Dollar Year

VOC Limit **25**

VOC Limit Units **ppmvd @ 15% O2**

VOC Average Time

VOC Control Method

VOC Control Method Desc **Oxidation catalyst**

VOC Percent Control Efficiency

VOC Cost Effectiveness (%/ton)

VOC Incremental Cost Effectiveness (%/ton)

VOC Cost Verified (Y/N)

VOC Dollar Year

PM10 Limit **0.02**

PM10 Limit Units **g/bhp-hr**

PM10 Average Time

PM10 Control Method

PM10 Control Method Desc

PM10 Percent Control Efficiency

PM10 Cost Effectiveness (%/ton)

PM10 Incremental Cost Effectiveness (%/ton)

PM10 Cost Verified (Y/N)

PM10 Dollar Year

SOx Limit **0.000829**SOx Limit Units **lb/MMBtu**

SOx Average Time

SOx Control Method

SOx Control Method Desc

SOx Percent Control
EfficiencySOx Cost Effectiveness
(%/ton)SOx Incremental Cost
Effectiveness (%/ton)

SOx Cost Verified (Y/N)

SOx Dollar Year

Other Limit **10**Other Limit Units **NH3 ppmvd**

Other Average Time

Other Control Method

Other Control Method Desc

Other Percent Control
EfficiencyOther Cost Effectiveness
(%/ton)Other Incremental Cost
Effectiveness (%/ton)

Other Cost Verified (Y/N)

Other Dollar Year

Project / Permit Information

Application/Permit No.: 220

Application Completeness
Date:

New Construction/Modification: New Construction

ATC Date: 04-17-2001

PTO Date: 05-22-2002

Startup Date: 09-01-2001

Technology Status: BACT Determination

Source Test Available: Yes

Source Test Results: October 16-19, 2001 January 21, 2003 Range Average Engine #6 Engine #14 O₂, % (dry) 11.85 - 12.57 12.30 12.19 12.65 PPMVD@15%O₂: NO_x 4.02 - 5.64 4.82 7.1 7.42 CO 9.2 - 29.3 16.3 19.0 22.5 NMHC as C1 3.0 - 5.8 4.3 3.8 4.2 NH₃ 0.32 - 0.82 0.44 0.64 0.88 The 2001 test was the initial source test (all 16 engines), and the 2003 test was the most recent annual test (2 engines, selected by APCD). Each engine test consisted of three 20-minute measurements. An APCD observer was present in both cases.

Facility / District Information

Facility Name: NEO California Power, LLC

Facility Zip Code:

Facility County:

District Name:

Tehama County APCD

District Contact:

Curtis Wentworth

Contact Phone No.:

530-527-3717

Contact E-Mail:

Notes

Notes:

CARB Guidance for Permitting of Electrical Generation Technologies Emissions may exceed these limits during startups and shutdowns (max of one hour each case). NOx and CO emissions from all 16 engines combined limited to 24.99 tons/year each (to avoid offsets). Engine operation limited to 6,090 hrs per year per engine (to ensure NOx and CO caps are met) As of the February 2004 test, the catalysts had not yet been cleaned.

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