Internal Use Only
APP ID: APCD2017-APP/CER-005203
SITE ID: APCD2000 -SITE- 03269

GENERAL PERMIT OR REGISTRATION APPLICATION FORM

APCD
AIR POLLUTION CONTROL DISTRICT
COUNTY OF SAN DIEGO

Submittal of this application does not grant permission to construct or to operate equipment except as specified in Rule 24(c).

REASON FOR SUBMITTAL OF APPLICATION:

- ☐ New Installation
- ☐ Amendment to Existing Authority to Construct or Application
- ☐ Change of Permit Conditions
- ☐ Registration of Portable Equipment
- ☐ Existing Unpermitted Equipment or Rule 11 Change
- ☐ Change of Equipment Location
- ☐ Change Permit to Operate Status to Inactive
- ☐ Modification of Existing Permitted Equipment
- ☐ Change of Equipment Ownership *(please provide proof of ownership)*
- ☐ Banking Emissions
- ☒ Other (Specify) Title V Permit Renewal

List affected APP/PTO Record ID(s): APCD2007-PTO-978478

APPLICANT INFORMATION

Name of Business (DBA) Escondido Energy Center, LLC

Does this organization own or operate any other APCD permitted equipment at this or any other adjacent locations? ☒ Yes ☐ No

If yes, list assigned Site Record IDs listed on your Permits El Cajon Energy, LLC (APCD2009-SITE-06554), Chula Vista Energy Center, LLC (APCD2000-SITE-03752)

Name of Legal Owner (if different from DBA)

Equipment Owner			**Authority to Construct Mailing Address**		
Name: Escondido Energy Center, LLC			Name: Escondido Energy Center, LLC		
Mailing Address: 650 Bercut Drive, Suite C			Mailing Address: 1968 Don Lee Place		
City: Sacramento	State: CA	Zip: 95811	City: Escondido	State: CA	Zip: 92029
Phone: (916) 447-5171			Phone: (619) 579-9002		
E-Mail Address: pcummins@wellhead.com			E-Mail Address: scobbe@wellhead.com		

Permit To Operate Mailing Address			**Invoice Mailing Address**		
Name: Escondido Energy Center, LLC			Name: Escondido Energy Center, LLC		
Mailing Address: 1968 Don Lee Place			Mailing Address: 650 Bercut Drive, Suite C		
City: Escondido	State: CA	Zip: 92029	City: Sacramento	State: CA	Zip: 95811
Phone: (619) 579-9002			Phone: (916) 447-5171		
E-Mail Address: scobbe@wellhead.com			E-Mail Address: accountspayable@wellhead.com		

EQUIPMENT/PROCESS INFORMATION: Type of Equipment: ☒ Stationary ☐ Portable, *if portable please enter below the equipment storage address*. If portable, will operation exceed 12 consecutive months at the same location ☐ Yes ☐ No

Equipment Location Address 1968 Don Lee Place City Escondido State: CA

Parcel No. 228-381-7800 Zip 92029 Phone (619) 579-9002 E-mail: scobbe@wellhead.com

Site Contact Stephen Cobbe Phone (619) 579-9002

General Description of Equipment/Process Simple cycle natural gas fired turbine, 46.5 MW

Application Submitted by ☒ Owner ☐ Operator ☐ Contractor ☐ Consultant Affiliation

EXPEDITED APPLICATION PROCESSING: ☒ I hereby request Expedited Application Processing and understand that:
a) Expedited processing will incur additional fees and permits will not be issued until the additional fees are paid in full (see Rule 40(d)(8)(iv) for details) b) Expedited processing is contingent on the availability of qualified staff c) Once engineering review has begun this request cannot be cancelled d) Expedited processing does not guarantee action by any specific date nor does it guarantee permit approval.

I hereby certify that all information provided on this application is true and correct.

SIGNATURE Paul Cummins Date 11-3-2017

Print Name Paul Cummins Company Escondido Energy Center, LLC

Phone (916) 447-5171 E-mail Address pcummins@wellhead.com

Internal Use Only

Date 11/7/17 Staff Initials: OM Amt Rec'd $ 9209 Fee Schedule TV = 710S ETV

RNP: ☐ EMF: 0 NBF 104 TA: 710S

GEN_APP_Form_Rev Date: Aug. 2017

SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT

APPLICATION FEE ESTIMATE

Applicant DBA: Escondido Energy Center — Fee Schedule: ETM

APCD Engineer: D. Erwin — Estimate Date: 10/31/2017

Equipment Description: Title V renewal

ACTIVITY	EMPLOYEE CLASSIFICATION	LABOR HOURS	COST	SUBTOTAL
Initial Evaluation Fee - T&M (Rule 40(d)(3)(i))				
Authority to Construct	Project Engineer		$0	
	Senior Engineer		$0	$0
Permit to Operate	Project Engineer		$0	
	Senior Engineer	35.0	$7,105	$7,105
Initial Evaluation Fee - Fixed Fee (Rule 40(d)(3))				
Authority to Construct/Permit to Operate (fixed fee)		-		$0
Additional Evaluation and Processing Fees (Rule 40(d)(5))				
New Source Review	Project Engineer		$0	
	Meteorologist		$0	$0
Toxics New Source Review	Project Engineer		$0	
	Air Resources Specialist		$0	$0
Title V	Project Engineer		$0	
	Senior Engineer		$0	$0
NESHAPS/ATCM/NSPS	Project Engineer		$0	$0
CEQA	Project Engineer		$0	$0
AB 3205 Notice	Project Engineer		$0	
	Public Notice Costs	-		$0
Testing or Test Witness	Senior Chemist		$0	
	Associate Engineer		$0	
	Associate Chemist		$0	
	Source Test Technician		$0	$0

Miscellaneous Fees

Processing Fee (Rule 40(d)(1)(ii))	$104
Renewal Fee (Rule 40(e)(2)(ii))	$0
Emissions Fee (Rule 40(e)(2)(iv))	

ESTIMATE TOTAL: $7,209

NOTES:

(1) To avoid possible processing delays, this document should be submitted with your application forms.

(2) The fees contained in this estimate are are based on APCD Rule 40.

(3) Final fee may be more or less than this estimate (see Rule 40(d)(1)(iii)).

(4) Emissions determined to be greater than 5 tons per year will be charged a emission fee on a ton per year basis. (see Rule 40 (e)(2)(iv)(A))

(5) Fees paid by credit card will be assessed a 2.2% processing fee (see Rule 40(d)(1)(v))

ESCONDIDO ENERGY CENTER, LLC

650 BERCUT DRIVE, SUITE C
SACRAMENTO, CALIFORNIA 95811
(916) 447-5171 • FAX (916) 447-7602

November 3, 2017

Douglas L. Erwin, PE
Senior Air Pollution Control Engineer
San Diego APCD
10124 Old Grove Road
San Diego, CA 92131

Subject: **Application for Title V Permit Renewal**
Escondido Energy Center, LLC (Site ID # APCD2000-SITE-03769)

Dear Mr. Erwin,

Escondido Energy Center, LLC (EEC) is an electrical generation facility operating a 46.5 MW simple-cycle electrical power generating system. The equipment consists of one natural gas-fired turbine engine. With this application, EEC is requesting renewal of its Title V Permit to Operate (Permit APCD2007-PTO-978478) which expires on September 4, 2018. EEC requests that the minor modification approved by Authority to Construct APCD2015-APP-004232 issued on November 17, 2015, and the change approved by Authority to Construct APCD2015-APP-003977 issued on March 30, 2015 are incorporated into this renewal. The Authority to Construct documents are enclosed with the application forms.

A check in the amount of $7,209.50 is enclosed for processing of the enclosed application package.

Should you or your staff have any questions concerning this proposal or need additional information, please do not hesitate to contact me (530-713-5175 or drichardson@wellhead.com) or our consultant, Scott Weaver of Ramboll Environ (213.943.6360 or msweaver@ramboll.com).

Best regards,

Dan Richardson

Enclosures

Cc: Paul Cummins, Wellhead Electric (Sacramento, CA)
Scott Weaver, Ramboll Environ (Los Angeles, CA)

GENERAL PERMIT OR REGISTRATION APPLICATION INSTRUCTIONS

APCD
AIR POLLUTION CONTROL DISTRICT
COUNTY OF SAN DIEGO

GENERAL

The owner or designated agent must complete and sign this form and file it with one copy of all attachments, required supplementary forms, drawings and the appropriate fee.

The appropriate fee (payable to "County of San Diego APCD") must be submitted witb this Permit/Registration Application. Application processing will not begin until the full required fee has been received. Excess fees will be refunded upon completion of the application process. If you do not know the appropriate fee or need to discuss the information required, please contact the District at (858) 586-2600 and ask for assistance in determining an application fee.

REASON FOR SUBMITTAL OF APPLICATION

- New Installation - check if you are installing equipment that does not currently have a District Permit to Operate (PTO)
- Existing Unpermitted Equipment or Rule 11 Change - check if applying for installed existing equipment that is currently unpermitted or equipment that is now subject to District Rules due to Rule 11 changes
- Modification of Existing Permitted Equipment - check if you are making a change to equipment with a current District Permit to Operate. (List affected PTO Record ID(s) – Note: PTO Record ID Format: APCD2015-PTO-123456)
- Amendment to Existing Authority to Construct or Permit/Registration Application - check this line if you are amending a previously submitted application form or if amending a current Authority to Construct. (List affected Application Record ID(s) Application Record ID Format: APCD2015-APP-123456)
- Change of Equipment Location - check if you are moving non-portable equipment with a current District Permit to Operate. (List affected PTO Record IDs)
- Change of Equipment Ownership - check if you are now the owner of equipment with a current District Permit to Operate under a different owner. Provide proof of ownership with application. (List affected PTO Record ID(s))
- Change of Permit Conditions - check if equipment with a current Permit to Operate requires changes to the existing operating conditions. (List affected PTO Record ID(s) on line 12)
- Change Permit to Operate Status to Inactive - check if you wish to maintain your current Permit to Operate but are not going to operate the equipment. (List affected PO #(s))
- Banking Emissions - check if you are retiring equipment with a current District Permit to Operate and wish to bank tbe emissions for future credits. (List affected PTO Record ID(s) on)
- Registration of Portable Equipment - check this line if you are applying for registration of portable equipment
- Other - cbeck for any action not covered
- List affected Application/PTO Record ID(s) - if the application being submitted is for an existing operation please listed the affected permits

APPLICANT INFORMATION

Please enter the requested addresses, including the mailing address to be used to send the Authority to Construct, Permit to Operate, and invoices

EQUIPMENT/PROCESS INFORMATION

Check Stationary (e.g. gasoline service site, dry cleaning facility, etc.) or Portable (abrasive blast pot, roofing kettle, etc.) depending upon the type of equipment for which you are filing an application. Also check Yes if the equipment is portable and will operate more than 180 consecutive days at a single site. Otherwise, check No.
Please enter the location where the equipment is or will operate if this application is for a stationary source. If the application is for a portable operation please enter the address that will be used to store the portable unit

INDEMNIFICATION

In accordance with District Rule 40(d)(8)(vi), the applicant, to the extent the applicant is at fault in causing liability to the District, shall indemnify the District (including its agents, officers and employees) from any claim, action, liability, or proceeding to attack, set aside, void or annul the applicant's project or any of the proceedings, acts or determinations taken, done or made as a result of the District's processing and/or approval of the project. The applicant's obligation to indemnify shall include, hut not be limited to, payment of all court costs and attorneys' fees, costs of any judgments or awards against the District, damages, and/or settlement costs, which arise out of the District's processing and/or approval of the applicant's project, except that an applicant shall only be responsible for indemnifying the District according to the proportion of fault caused by the applicant, as determined hy a court. By signing and submitting this application, an applicant agrees to such indemnification.

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Stationary Source Summary (FORM 1401-A1)

Company Name	District Use Only
Escondido Energy Center, LLC	NEDS # _____ SITE ID # _____

I. FACILITY IDENTIFICATION

1. Facility Name (if different than company name): _____
2. Four digit SIC Code: 4911
3. Parent Company (if different than Company Name): Wellhead Electric
4. Mailing Address: 650 Bercut Drive, Suite C
   City Sacramento State CA Zip 95811
5. Street Address or Source Location: 1968 Don Lee Place
   City Escondido State CA Zip 92029
6. UTM Coordinates: Easting: 488562 Northing: 3665519
7. Source Located within 50 miles of a state line: ☐ Yes ☒ No (All sources **are** within 50 miles)
8. Source Located within 1000 feet of a school: ☐ Yes ☒ No
9. Type of Organization: ☒ Corporation ☐ Sole Ownership ☐ Government ☐ Partnership ☐ Utility Company
10. Legal Owner's Name: Escondido Energy Center, LLC
11. Owner's Agent name (if any): _____
12. Responsible Official: Paul Cummins
13. Plant Site Manager/Contact: Stephen Cobbe Phone #: (619) 579-9002 FAX #: (619) 579-9005
14. Application Contact: Stephen Cobbe
15. Type of Facility: Power plant
16. General description of processes/products: Simple cycle natural gas fired combustion gas turbine
17. Is a Federal Risk Management Plan (RMP) pursuant to Section 112(r) required? ☐ Yes ☒ No
    (If application is submitted after RMP due date, attach verification that plan is registered with the appropriate agency.)

II. TYPE OF PERMIT ACTION (check)	CURRENT PERMIT (permit number)	EXPIRATION (date)
☐ **Initial Title V Application**	N/A	N/A
☒ **Permit Renewal**	APCD2007-PTO-978478	September 4, 2018
☐ **Significant Permit Modification**		
☐ **Minor Permit Modification**		
☐ **Administrative Amendment**		

III. DESCRIPTION OF PERMIT ACTION

1. Does the permit action requested involve:
   ☐ Temporary Source ☒ Voluntary Emissions Caps
   ☒ Acid Rain Source ☐ Alternative Operating Scenarios ☒ Abatement Devices
   ☒ CEMs ☐ Permit Shield
   ☐ Outdated SIP Requirement Streamlining ☐ Multiple Applicable Requirement Streamlining
   ☐ Source Subject to MACT Requirements [Section 112]
   ☐ Source Subject to Enhanced Monitoring (40CFR64) [Compliance Assurance Monitoring]
2. Is source operating under a Compliance Schedule? ☐ Yes ☒ No ☐ Proposed
3. Is source operating under a Variance ☐ Yes ☒ No (If Yes, please attach variance information)
4. For permit modification, provide a general description of the proposed permit modification:
   N/A

IV. SUPPLEMENTAL ATTACHMENTS*: _____

* Means all attachments to the complete application.

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Stationary Source Summary (FORM 1401-A2)

Company Name	District Use Only
Escondido Energy Center, LLC	NEDS # _____ SITE ID # _____

I. MAJOR SOURCE APPLICABILITY

Check appropriate pollutant(s) for which you are a Major Source under Title V. Applicability is based on potential to emit. **If more space is necessary, use additional forms. Please type or print legibly.**

POLLUTANT	MAJOR SOURCE THRESHOLD TOTAL EMISSIONS, TPY	(check if appropriate)
VOC	100	☐
PM_{10}	100	☐
SO_2	100	☐
NOx	100	☐
CO	100	☐
ODC	100	☐
LEAD COMPOUNDS	10	☐
HAZARDOUS AIR POLLUTANTS		
SINGLE HAP	10	☐
		☐
		☐
COMBINATION HAP	25	☐
		☐
		☐
Title IV Acid Rain facility		☒

Attach all necessary calculations to this form as applicable. NOTE: Calculations are only needed if no Emission Inventory is on file with the District

Reference _____ Inventory Year _____

Signature of Responsible Official

11-3-2017
Date

Paul Cummins
Print Name of Responsible Official

(916) 447-5171
Telephone No. of Responsible Official

Vice President
Title of Responsible Official

II. EMISSIONS CALCULATIONS ATTACHED (as needed) ☐ Yes ☒ No

DISTRICT USE ONLY

Date Application Received: _____ **Application #** _____

Application Filing Fee: _____ **District Received Stamp:** _____

Receipt #: _____ **Fee Code:** _____

San Diego County Air Pollution Control District
10124 Old Grove Rd., San Diego, CA 92131
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Insignificant Activity List (FORM 1401-G)

Company Name	District Use Only
Escondido Energy Center, LLC	NEDS # _____
Facility Address: 1968 Don Lee Place, Escondido, CA 92029	SITE ID # _____

LIST OF EQUIPMENT – INSIGNIFICANT ACTIVITIES

Place a check mark in the appropriate box for equipment that is considered an insignificant activity based on throughput or equipment capacity.

Exemptions based on Size (Capacity)

	(Condensed Language of Rule)	Appendix A Citation
☐	Stationary & portable internal combustion engines with ≤ 50 bhp output rating	(d)(1)(iii)
☐	Stationary gas turbines with a power rating of < 0.3 megawatt (MW) or a maximum gross heat input rating of 1 million BTUs per hour	(d)(1)(iv)
☐	Water cooling towers & ponds with a capacity < 10,000 gal/min not used for evaporative cooling of process water or not used for evaporative cooling of water, contaminated water or industrial waste water from barometric jets or from barometric condensers.	(d)(2)
☐	Fuel-burning equipment with a maximum gross heat input rate of < 1 million Btu/hour when not part of a process, process line, line, equipment, article, machine or other contrivance for which a permit to operate is required by these Rules and Regulations	(d)(4)(i)
☐	Fuel burning equipment with a maximum gross heat input of < 20 million Btu/hour, and fired exclusively with natural gas and/or liquefied petroleum gas	(d)(4)(ii)
☐	Steam boilers, process heaters, and steam generators with a maximum gross heat input of < 5 million Btu/hour	(d)(4)(iii)
☐	Crucible-type or pot-type furnaces with a brimful capacity of < 450 in^3 of any molten metal	(d)(12)
☐	Crucible, pot or induction furnaces with a capacity of ≤ 2500 in^3, in which no sweating or distilling is conducted and from which only non-ferrous metals except yellow brass, are poured or non-ferrous metals are held in a molten state	(d)(13)
☐	Dry batch mixers with ≤ 0.5 cubic yards rated working capacity	(d)(27)
☐	Batch mixers (wet) with ≤ 1 cubic yard capacity where no organic solvents, diluents or thinners are used.	(d)(28)
☐	Roofing kettles (used to heat asphalt) with a capacity of ≤ 85 gallons	(d)(33)
☐	Abrasive blasting equipment with a manufacturer's-rated sand capacity of < 100 lbs or < 1 ft^3	(d)(34)
☐	Paper shredders and paper disintegrators that have a capacity of 600 pounds per hour or less, and the associated conveying systems and baling equipment.	(d)(41)
☐	Ovens having an internal volume of ≤ 27 ft^3 in which organic solvents or materials containing organic solvents are charged	(d)(59)
☐	Cold solvent cleaning tanks, vapor degreasers, and paint stripping tanks with a liquid surface area of ≤ 1.0 ft^2	(d)(61)(i)
☐	Cold solvent cleaning tanks, vapor degreasers, and paint stripping tanks which have a maximum capacity of ≤ 1 gallon	(d)(61)(ii)

Continued - Exemptions based on Size (Capacity)

	(Condensed Language of Rule)	Appendix A Citation
☐	Stationary organic compound storage tanks with a capacity of ≤ 250 gallons	(e)(1)
☐	Liquid surface coating application operations using hand-held brushes for application of a primer coating from containers of ≤ eight (8) ounces in size, to fasteners to be installed on aerospace parts	(h)(5)
☐	Liquid surface coating application operations using air brushes with a coating capacity of ≤ 2 ounces for the application of a stencil coating	(h)(6)
☐	Metal inspection tanks that: a) do not utilize a suspension of magnetic or fluorescent dye particles in volatile organic solvent, and b) have a liquid surface area < 5 ft^2 and c) are not equipped with spray type flow or a means of solvent agitation	(o)(5)
☐	Bakery ovens used for baking yeast leavened products where the combined rated heat input capacity is < 2 million Btu/hr	(o)(37)

Exemptions based on Production Rates (Emission Limits)

☐	Printing or graphic arts presses located at a stationary source which emits a total of <15 lbs/day of VOC's subject to Rule 67.16, on each day of operation	(d)(7)
☐	Solder levelers, hydrosqueegees, wave solder machines, and drag solder machines which use < 10 lbs/day of any material containing VOCs	(d)(23)
☐	Fire extinguishing equipment, using halons with a charge of < 50 lbs. of a Class I or Class II ozone depleting compound.	(d)(31)
☐	Coffee roasting equipment with a manufacturer's rating of ≤ 15 lbs/hr	(d)(45)
	Equipment used to manufacture bio-agricultural products for exclusive use in field testing required to obtain FDA, EPA, USDA and /or Cal-EPA approval, provided the uncontrolled emissions of VOCs from all such operations < 5 ton/yr.	(d)(49)(iii)
☐	Oil quenching tanks which use < 20 gal/yr of make-up oil	(d)(56)
☐	Equipment that is used to conduct research and develop new or improved processes/products, and is operated by technically trained personnel under the supervision of a research director, and is not used in the manufacture of products for sale or exchange for commercial profit, and all emissions are < 15 lbs/day.	(d)(48)
☐	Powder coating operations, except metalizing gun operations, where surface preparation or cleaning solvent usage is < 0.5 gal/day	(d)(62)
☐	Equipment used to transfer fuel to & from amphibious ships for maintenance purposes, provided total annual transfers < 60,000 gal/yr.	(f)(2)
☐	Stationary storage tanks (excluding tanks subject to Rule 61.9) used exclusively for the storage of liquid organic solvents used as dissolvers, viscosity reducers, reactants, extractants, cleaning agents or thinners provided that emissions < 15 lbs/day.	(e)(3)
☐	Liquid surface coating or adhesive application operations (portable or stationary) where not more than 20 gallons per year of material containing organic compounds are applied	(h)(1)
☐	Liquid surface coating application operations exclusively using materials with a VOC content of < 20 g/L where < 30 gal/day of such materials are applied.	(h)(2)
☐	Foam manufacturing or application operations which emit < 5 lbs/day of VOCs	(i)(1)
☐	Reinforced plastic fabrication operations using resins such as epoxy and/or polyester which emit < 5 lbs/day of VOCs	(i)(2)
☐	Plastics manufacturing or fabrication operations which emit < 5 lbs/day of VOCs	(i)(3)
☐	Cold solvent degreasers used for educational purpose and which emit < 5 lbs/day of VOCs	(i)(4)

☐	Golf grip application stations which exclusively use liquid materials with an initial boiling point of 450°F (232°C), or greater and which emit < 5 lbs/day of VOCs.	(i)(5)
☐	Batch-type waste-solvent recovery stills with batch capacity of ≤ 7.5 gallons for onsite recovery provided the still is equipped with a safety device & VOC emissions are < 5 lbs/day	(i)(6)
☐	Peptide and DNA synthesis operations which emit < 5 lbs/day of VOCs	(i)(7)
☐	Equipment used for washing or drying articles fabricated from metal, cloth, fabric or glass, provided that no organic solvent is employed in the process and that no oil or solid fuel is burned and none of the products being cleaned has residues of organic solvent and VOC emissions are <5 lbs/day	(i)(8)
☐	Hot wire cutting of expanded polystyrene foam which emit < 5 lbs/day of VOCs.	(i)(9)
☐	Any coating and/or ink manufacturing operations located at a stationary source, which emit < 15 lbs/day of VOCs.	(o)(9)
☐	Any operation producing materials for use in cosmetic or pharmaceutical products and/or manufacturing cosmetic or pharmaceutical products by chemical processes, which emit < 15 lbs/day of VOCs	(o)(12)
☒	Refrigeration units except those used as, or with, air pollution control equipment with a charge of < 50 lbs of a Class I or II ozone depleting compound.	(o)(18)
☐	Atmospheric organic gas sterilizer cabinets where ethylene oxide emissions are < 5 lbs/yr	(o)(28)
☐	Aerosol can puncturing/crushing operations which vents all emissions through a properly operated/maintained carbon canister, provided < 500 cans/day are processed.	(o)(29)(ii)
☐	Solvent wipe cleaning operations using a container applicator that minimizes emissions to the air where the uncontrolled emissions of VOCs < 5 ton/yr, or the total purchase of solvents < 1,500 gal/yr, or the total purchase of solvents containing a single HAP < 350 gal/yr.	(o)(32)
☐	Equipment approved for use by the EPA for recovering and/or recycling CFCs provided such equipment is charged with < 50 lbs. of a Class I or II ozone depleting compound.	(o)(33)
☐	Stationary IC engines rated at ≤ 200 bhp installed and operated before November 15, 2000, which operate < 200 hr/yr.	(o)(34)(ii)

San Diego County Air Pollution Control District
10124 OLD GROVE ROAD SAN DIEGO CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1)

Company Name	District Use Only
Escondido Energy Center, LLC	NEDS # _____ SITE ID # _____

APPLICABLE REQUIREMENTS: Applicable requirements which apply to an entire facility are listed first. The applicant should check appropriate boxes on the form and attach emission unit specific permit number lists where necessary. Where streamlining is employed, note on this form. If information does not fit in the space allotted, attach documentation and reference it on this form. **Type or print legibly.**

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Turbine														Future Effective Date
	Facility Applicable Requirement Description																		
10(a)	Permits Required – (a) Authority to Contruct			X	X														
10(b)	Permits Required – (b) Permit to Operate			X	X														
19	Provision of Sampling & Testing Facilities			X	X														
19.2	Continuous Emission Monitoring Requirements				X														
19.3	Emission Information			X															
NSR	New Source Review			X	X														
PSD	Prevention of Significant Deterioration																		
21	Permit Conditions			X	X														
50	Visible Emissions			X	X														
51	Nuisance			X	X														
60	Circumvention			X															
67.0	Architectural Coatings	(g)																	
67.17	Storage of Materials Containing VOC	(e)																	
71	Abrasive Blasting																		
98	Breakdown Conditions: Emergency Variance			X	X														
101	Burning Control			X															
131	Stationary Source Curtailment Plan			X															
132	Traffic Abatement Plan																		

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Turbine														Future Effective Date
	Equipment Specific Applicable Requirement Description																		
50	Visible Emissions																		
51	Nuisance																		
52	Particulate Matter	Method 5		X	X														
53	Specific Contaminants	Method 5		X	X														
53.1	Scavenger Plants																		
54	Dust and Fumes	Method 5			X														
58	Incinerator Burning																		
59	Control of Waste Disposal – Site Emissions	(e)	(e) & (f)																
60	Circumvention																		
61.1	Receiving & Storing VOCs at Bulk Plants & Terminals	(d)	(c)(7)																
61.2	Transfer of VOCs into Mobil Transport Tanks	(c)(10)																	
61.3	Transfer of VOCs into Stationary Storage Tanks		(c)(2)(iii)																
61.3.1	Transfer Of Gasoline Into Stationary Underground Storage Tanks (not in the SIP)	(h)	(g)																
61.4	Transfer of VOCs into Vehicle Fuel Tanks																		
61.4.1	Transfer Of Gasoline From Stationary Underground Storage Tanks Into Vehicle Fuel Tanks (not in the SIP)	(g)	(f)																
61.5	Visible Emissions Standards for Vapor Control Equip.		VE																
61.7	Spillage & Leakage of VOCs																		
61.8	Certification Requirements for Vapor Control Equip.																		
62	Sulfur Content of Fuels				X														
64	Reduction of Animal Matter																		
66	Organic Solvents	(p)	(o)																
66.1	Misc. Surface Coating Operations & other Processes Emitting VOC (not in SIP)	(h)	(f)																
67.1	Alternative Emission Control Plans (AECP)	(c)	(d)																
67.2	Dry Cleaning - Petroleum Solvent	(f)	(e)																
67.3	Metal Parts Coating	(g)	(f)																
67.4	Can & Coil Coating	(g)	(f)																
67.5	Paper, Film and Fabric Coating	(f)	(e)																

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility															Future Effective Date
67.6	Solvent Cleaning Operation	(f)																	
67.6.1	Cold Solvent Cleaning and Stripping Operations	(g)	(f)																
67.7	Cutback & Emulsified Asphalt	(f)	(e)																
67.9	Aerospace Coating Operations	(g)	(f)																
67.10	Kelp Processing and Bio-Polymer Mfg.	(f)	(e)																
67.11	Wood Products Coating Operations (not in SIP)																		

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Turbine														Future Effective Date
67.12	Polyester Resin Operations	(g)	(f)																
67.15	Pharmaceutical & Cosmetic Manufacturing	(e)																	
67.16	Graphic Arts Operations	(g)	(f)																
67.17	Open VOC Containers	(e)																	
67.18	Marine Coating Operations	(g)	(f)																
67.19	Coating and Printing Inks Mfg. Operations	(g)	(f)																
67.20	Motor Vehicle & Mobile Equipment Refinishing Operations																		
67.21	Adhesive Material Application Operations																		
67.22	Expandable Polystyrene Foam Products Manufacturing Operations (not in SIP)																		
67.24	Bakery Ovens	(f)	(e)																
68	Fuel Burning Equipment - NOx																		
69.2	Boilers	(f)	(e) & (g)																
69.3	Stationary Gas Turbine Engines - RACT	(f)	(e) & (g)		X														
69.3.1	Stationary Gas Turbine Engines – BARCT (not in SIP)	(f)	(e) & (g)		X														
69.4	Stationary Internal Combustion Engines - RACT	(f)	(e)																
69.4.1	Stationary Internal Combustion Engines – BARCT (not in SIP)	(f)	(e)																
70	Orchard Heaters																		

71	Abrasive Blasting																	
20.1	Applicability, Definitions, Emission Calculations, Emission Offsets and Banking, Exemptions, and Other Requirements (SIP Version 7/5/79)				X													
20.1	NSR - General Provisions (Version 11/4/98) (not in SIP)				X													
20.2	Standards for Authority to Construct Best Available Control Technology (SIP Version 7/5/79)				X													
20.2	NSR – Non-major Stationary Sources (Version 11/4/98) (not in SIP)				X													
20.3	Standards for Authority to Construct - Air Quality Analysis (SIP Version 7/5/79)																	

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Turbine													Future Effective Date
20.3	NSR – Major Stationary Source and PSD Stationary Source (Version 11/4/98) (not in SIP)																	
20.4	Standards for Authority to Construct - Major Sources (SIP Version 7/5/79)																	
20.4	NSR – Portable Emission Units (Version 11/4/98) (not in SIP)																	
20.5	Power Plants (SIP Version 7/5/79)																	
20.6	Standards for Permit to Operate Air Quality Analysis (SIP Version 7/5/79)																	
SUBPART	**Regulation X - Standards of Performance for New Stationary Sources (NSPS)**	**Rule #**	**Rule #**															
A	General Provisions		260.7 260.13	x														
D	Standards of Performance for Fossil-Fuel Fired Steam Generators	260.46	260.45															
Da	Standards of Performance for Electric Utility Steam Generating Units Constructed After September 18, 1978		260.47a 260.48a 260.49a															
Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating	260.45b 260.46b	260.47b 260.48b 260.49b															
E	Standards of Performance for Incinerators	260.54	260.53															
I	Standards of Performance for Asphalt Concrete Plants	260.93																

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

K	Standards of Performance for Storage Vessels for Petroleum Liquids Constructed after June 11, 1973 and Prior to May 19, 1978		260.113															
Ka	Standards of Performance for Storage Vessels for Petroleum Liquids Constructed after May 18, 1978	260.113a	260.115a															
Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984	260.113b	260.115b 260.116b															
RULE	**RULE DESCRIPTION**	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility														Future Effective Date
Subpart																		
L	Standards of Performance for Secondary Lead Smelters	260.123																
M	Standards of Performance for Secondary Brass and Bronze Ingot Production Plants	260.133																
O	Standards of Performance for Sewage Treatment Plants	260.154	260.153															
DD	Standards of Performance for Grain Elevators	260.303																
EE	Standards of Performance for Surface Coating Metal Furniture	260.313 260.316	260.314 260.315															
GG	Standards of Performance for Stationary Gas Turbines	260.335	260.334															
QQ	Standards of Performance for the Graphic Arts Industry: Publication Rotogravure Printing	260.433 260.435	260.434															
RR	Standards of Performance for the Pressure Sensitive Tape and Label Surface Coating Operations	260.444 260.446	260.445 260.447															
SS	Standard of Performance for the Industrial Surface Coating Large Appliances	260.453 260.456	260.454 260.455															
TT	Standards of Performance for Metal Coil Surface Coating	260.463 260.466	260.464 260.465															
BBB	Standards of Performance for the Rubber Tire Manufacturing Industry	260.543 260.547	260.544 260.545 260.546															
FFF	Standards of Performance for Flexible Vinyl and Urethane Coating and Printing	260.583	260.584 260.585															
JJJ	Standards of Performance for Petroleum Dry Cleaners																	

SUBPART	New Source Performance Standards (40 CFR 60)																	
Cb, F	Portland Cement Plants																	
Dc	Small Industrial -Commercial -Institutional Steam Generators >10 MM Btu but <100 MM Btu.																	
Ea	Municipal Waste Combustors																	
G	Nitric Acid Plants																	
H & Cb	Sulfuric Acid Plants																	

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Turbine													Future Effective Date
Subpart																		
N	Oxygen Process Furnaces																	
Na	Oxygen Process Steelmaking Facilities																	
P	Primary Copper Smelters																	
Q	Primary Zinc Smelters																	
R	Primary Lead Smelters																	
S	Primary Aluminum Reduction Plants																	
T & U	Phosphate Fertilizer Industry																	
V,W,X	Phosphate Fertilizer Industry																	
Y	Coal Preparation Plants																	
Z	Ferroalloy Production Facilities																	
AA, AAa	Steel Plants																	
BB	Kraft Pulp Mills																	
CC	Glass Manufacturing Plants																	
HH	Lime Manufacturing Plants																	
KK	Lead-Acid Battery Manufacturing Plants																	
LL	Metallic Mineral Processing Plants																	
MM	Automobile and Light-Duty Truck Surface Coating Operations																	
NN	Phosphate Rock Plants																	
PP	Ammonium Sulfate Manufacture																	
UU	Asphalt Processing and Asphalt Roofing Manufacture																	

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

VV	Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufaeturing Industry.																	
WW	Beverage Can Surface Coating Industry																	
XX	Bulk Gasoline Terminals																	
AAA	New Residential Wood Heaters																	
DDD	VOC Emissions from the Polymer Mfg. Ind.																	
GGG	Equipment Leaks of VOC in Petroleum Refineries.																	

RULE	RULE DESCRIPTION	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Turbine													Future Effective Date
Subpart																		
HHH	Synthetic Fiber Production Facilities																	
KKK, LLL	Onshore Natural Gas Processing: VOC Equipment Leaks and SO_2 Emissions.																	
HHH	Synthetic Fiber Production Facilities																	
KKK, LLL	Onshore Natural Gas Processing: VOC Equipment Leaks and SO_2 Emissions.																	
NNN	VOC Emissions from Synthetic Organic Chemical Manufacturing Industry Distillation Operations.																	
OOO	Standard of Performance for Nonmetallic Mineral Processing Plants																	
PPP	Wool Fiberglass Insulation Mfg. Plants																	
QQQ	VOC Emissions from Petroleum Refinery Wastewater Systems.																	
RRR	VOC Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes.																	
SSS	Magnetic Tape Coating Facilities																	
TTT	Industrial Surface Coating Surface, Surface Coating of Plastic Parts for Business Machines.																	
UUU	Calciners and Dryers in Mineral Industries.																	
VVV	Polymeric Coating of Supporting Substances Facilities.																	
WWW	Standards of Performance for Municipal Solid Waste Facilities																	

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

IIII	Stationary Compression Ignition Internal Combustion Engines NSPS																	
JJJJ	Stationary Spark Ignition Internal Combustion Engines NSPS																	
SUBPART	**REGULATION XI - NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPS)**																	
A	General Provisions			x														
C, D	Beryllium Extraction Plants; Ceramic Plants, Foundries, Incinerators, Propellant Plants, and Machine Shops that Process Beryllium Containing Material; and Rocket Motor Firing Test Sites.																	

RULE	**RULE DESCRIPTION**	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Turbine													Future Effective Date
Subpart																		
E	Mercury Ore Processing; Manufacturing Processes Using Mercury Chloralkali Cells; and Sludge Incinerators.																	
F	Ethylene Dichloride Mfg. Via Oxygen, HCl and Ethylene; Vinyl Chloride Mfg.; and Polyvinyl Chloride Mfg.																	
M	Asbestos Mills; Roadway Surfacing with Asbestos Tailings; Manufacture of Products Containing Asbestos; Demolition; Renovation; and Spraying and Disposal of Asbestos Waste.			x														
SUBPART	**NESHAPS (40 CFR 61)**																	
B,Q,R, T,W,	Underground Uranium Mines; Dept. of Energy Facilities; Phosphorus Fertilizer Plants; & Facilities Processing or Disposing of Uranium Ore & Tailings.																	
H,I,K	Dept. of Energy; Nuclear Regulatory Commission Licensed Facilities; Other Federal Facilities; and Elemental Phosphorus Plants. (Radionuclide)																	
J,L,Y, BB,FF	Fugitive Process, Storage, and Transfer Equipment Leaks; Coke By-Product Recovery Plants; Benzene Storage Vessels; Benzene Transfer Operations; and Benzene Waste Operations.																	

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

N,O,P	Glass Manufacturer; Primary Copper Smelter; Arsenic Trioxide and Metallic Arsenic Production Facilities.																	
V	Pumps, Compressors, Pressure Relief Devices, Connections, Valves, Lines, Flanges, Product Accumulator Vessels, etc. in VHAP Service.																	
SUBPART	**MACT Standards (40 CFR 63)**																	
F,G, H,I	Amendment: Reopening, Averaging Issue																	
L	Coke Ovens																	
O	Ethylene Oxide Sterilizers																	
Q	Industrial Process Cooling Towers																	
R	Gasoline Distribution Facilities																	
RULE	**RULE DESCRIPTION**	Test Method or Rule Section	Monitoring, Records, Reports, Rule Section	Facility	Turbine													Future Effective Date
Subpart																		
T	Halogenated Solvent Cleaning Degreasing																	
X	Secondary Lead Smelters																	
Y	Marine Tank Loading/Unloading																	
CC	Petroleum Refineries																	
DD	Off-Site Waste and Recovery Operations																	
EE	Magnetic Tape																	
GG	Aerospace (Coatings)																	
II	Shipbuilding for Ship Repair (Surface Coating)																	
JJ	Wood Furniture Industry (Coatings)																	
KK	Printing and Publishing																	

TITLE V APPLICATION
Applicable Requirements Summary Checklist (FORM 1401-H1) - continued

AAAA	Municipal Solid Waste Landfills																	
DDDDD	Industrial, Commercial and Institutional Boilers and Process Heaters																	
MMMM	Surface Coating of Miscellaneous Metal Parts and Products																	
PPPP	Surface Coating of Plastic Parts																	
ZZZZ	Reciprocating Internal Combustion Engines																	
YYYY	Stationary Combustion Turbines																	
	California Requirements Under 17 CCR Including Airborne Toxic Control Measures (ATCM)																	
§93102	Hexavalent Chromium from Chrome Plating and Chromic Acid Anodizing Operations (equivalency under CAA given at 40 CFR 63.99)																	
§93109	Perchloroethylene from Dry Cleaning Operations (equivalency under CAA given at 40 CFR 63.99)																	
§93115	Stationary Compression Ignition Engines																	
§93116	Diesel Particulate Matter from Portable Engines Rated ≥50 Horsepower																	
§§95460 – 95476 and Appx I	Methane Emissions from Municipal Solid Waste Landfills																	
	40 CFR Part 64 - Compliance Assurance Monitoring																	
	40 CFR Part 68 Chemical Accident Prevention																	
	Title IV - Acid Rain (40 CFR 72 through 78)			X	X													
	Title VI-Ozone Depleting Compounds (40 CFR 82)																	
B	Servicing of Motor Vehicle Air Conditioners	B		X														
F	Servicing of Other Air Conditioners	F		X														

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
LIST OF PERMITS BY EQUIPMENT CATEGORY (FORM 1401-H2)

Company Name	District Use Only
Escondido Energy Center, LLC Facility Address: 1968 Don Lee Place, Escondido, CA 92029	NEDS # _____ SITE ID # _____

PERMITTED EMISSION UNITS BY EQUIPMENT CATEGORY

In the emission unit (equipment) category order entered on Form 1401-H1, Applicable Requirements Summary Checklist, list emission units by permit number for the specific emission unit (equipment) category. Under the column labeled status place an "O" if operational, "N" if non-operational, or "S" if the equipment is new and currently operating under a startup authorization. **If more space is required, use additional forms. Please type or print legibly.**

Emission Unit Category	Application/ Permit No.	Status of Emission Unit
Natural gas fired combustion turbine	APCD2011-APP-001544	O

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Certification Statement (FORM 1401-I)

Company Name	District Use Only
Escondido Energy Center, LLC	NEDS #_____
Facility Address: 1968 Don Lee Place, Escondido, CA 92029	SITE ID #_____

Under penalty of perjury, identify the following: (Read each statement carefully and check each box for confirmation.)

Applicable	Not Applicable	
X	☐	*Based on information and belief formed after reasonable inquiry, the source(s) identified in this application will continue to comply with the applicable requirement with which the source is in compliance. The applicable requirement(s) with which the source(s) is/are not in compliance is/are identified in Form 1401-L, Schedule of Compliance.*
X	☐	*Based on information and belief formed after reasonable inquiry, the source(s) identified in this application will comply with the future-effective applicable requirement(s) on a timely basis.*
☐	X	*Based on information and belief formed after reasonable inquiry, the source(s) identified in the Schedule of Compliance application form that is/are not in compliance with the applicable requirement(s), will comply in accordance with the attached compliance plan schedule.*
X	☐	*Based on information and belief formed after reasonable inquiry, information on application forms, referenced documents, all accompanying reports, and other required certifications are true, accurate, and complete.*
X	☐	*All fees required by Regulation III, Rule 40 have been paid.*

Paul Cummins
Signature of Responsible Official

11-3-2017
Date

Paul Cummins
Print Name of Responsible Official

(916) 447-5171
Telepone No. of Responsible Official

Vice President
Title of Responsible Official

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Compliance Certification Schedule (FORM 1401-K)

Company Name	District Use Only
Escondido Energy Center, LLC	NEDS # _____
Facility Address: 1968 Don Lee Place, Escondido, CA 92029	SITE ID # _____

In numerical order, list all sources that have federally enforceable requirements for compliance certification on a more frequent basis than once per year. **If more space is required, use additional forms. Please type or print legibly.**

Permit No.	Emission Unit Name	Applicable Requirements	Frequency
	Not applicable. Permitted unit requires compliance certification once per year.		

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Schedule of Compliance (FORM 1401-L)

Company Name	District Use Only
Escondido Energy Center , LLC	NEDS #
Facility Address: 1968 Don Lee Place, Escondido, CA 92029	SITE ID #

SOURCES NOT IN COMPLIANCE

In numerical order, list all emission units by permit number that do not comply with a federally enforceable requirement. Describe how the source will achieve compliance. Propose a schedule to correct the deficiencies, and include a schedule for progress reports. Reports must be submitted at least every six months. If the source is operating under a judicial consent decree or administrative order, the Schedule of Compliance must be at least as stringent. **If more space is required, use additional forms. Please type or print legibly.**

Permit No.	Emission Unit Name	Applicable Requirements	Compliance Schedule Attachment
Not applicable -	Facility emission unit complies with all applicable requirements.		

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Abatement Devices (FORM 1401-M)

Company Name	District Use Only
Escondido Energy Center, LLC	NEDS #
Facility Address: 1968 Don Lee Place, Escondido, CA 92029	SITE ID #

LIST OF ABATEMENT DEVICES

In numerical order, list all abatement devices, the abatement device, name or description, and the emission unit or operation abated. **If more space is required, use additional forms. Please type or print legibly.**

Permit No(s)	Abatement Device Name or Description	Emission Unit(s) or Operation(s) Abated
APCD2011-APP-001544	Selective Catalytic Reduction system	Natural gas fired turbine

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Alternative Operating Scenario (FORM 1401-N)

Company Name	District Use Only
Escondido Energy Center, LLC	NEDS #
Facility Address: 1968 Don Lee Place, Escondido, CA 92029	SITE ID #

SCENARIO WITH EMISSION CHANGES

Give a title, a brief description, and an emission change. Attach calculations and detailed descriptions of each scenario to this form, using one form for each scenario. **Please type or print legibly.**

Operating Scenario # Not applicable. The facility is not applying for additional alternative operating scenarios.

TITLE	
DESCRIPTION	
EMISSION CHANGE	

Attach all necessary calculations, detailed descriptions, and proposed terms and conditions to this form.

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Multiple Applicable Requirements Streamlining (FORM 1401-O)

Company Name	District Use Only
Escondido Energy Center, LLC	NEDS # _____
Facility Address: 1968 Don Lee Place, Escondido, CA 92029	SITE ID # _____

MULTIPLE APPLICABLE REQUIREMENTS STREAMLINING

If more space is required, use additional forms. Please type or print legibly.

Application No(s) Permit No(s)	Multiple Applicable Requirements	Streamlined Requirements	Attachment Number
	Not applicable.	Not applicable.	

San Diego County Air Pollution Control District
10124 Old Grove Road San Diego CA 92131-1649
(858) 586-2600 FAX (858) 586-2601

TITLE V APPLICATION
Permit Shield (FORM 1401-Q)

Company Name	District Use Only
Escondido Energy Center, LLC	NEDS #
Facility Address: 1968 Don Lee Place, Escondido, CA 92029	SITE ID #

REQUEST FOR PERMIT SHIELD

If more space is required, use additional forms. Please type or print legibly.

Application No(s) Permit No(s)	Requirements to be Shielded	Basis	Attachment Number
	No permit shield applies.		

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
(858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Application Record ID
APCD2015-APP-004232

Sectors: 2, D
Site Record ID: APCD2000-SITE-03769

Escondido Energy Center LLC
Paul Cummins
1968 Don Lee Place
Escondido, CA 92029

EQUIPMENT ADDRESS
Escondido Energy Center LLC
Paul Cummins
1968 Don Lee Place
Escondido, CA 92029

AUTHORITY TO CONSTRUCT

EXPIRES: November 17, 2016

After examination of your Application for an Air Pollution Control District (**hereinafter referred to as** "the District") Authority to Construct and Permit to Operate for equipment located at the above location, the District has decided on the following actions:

Authority to Construct is granted pursuant to Rule 20 of the Air Pollution Control District Rules and Regulations for equipment to consist of:

Gas Turbine Engine Generator: General Electric, Model LM-6000, 46.5 MW capacity, 468.8 MMBtu/hr heat input, natural gas fired, simple cycle, S/N 191-746, with an inlet air evaporative cooling system ("fogger"); water injection, a Technip selective catalytic reduction (SCR) system, including ammonia injection grid (AIG), AIG mixer plates and silencer perforated plates, with an automatic ammonia injection control system; an oxidation catalyst; CEMS for NOx, CO and O2; and a data acquisition and recording system.

This Authority to Construct is issued with the following conditions:

1. This authority to construct authorizes the modifications to the SCR system as described in application APCD2015-APP-004232 and any supplemental submittals for this application.

2. In the event that the gas turbine engine with S/N 191-746 is removed from service for required repair, the permit holder may install an identical gas turbine engine (General Electric, Model LM-6000, 46.5 MW capacity) as a temporary replacement. The temporary turbine may be operated for a time period not to exceed 120 calendar days for each time the gas turbine engine with S/N 191-746 is repaired. This time period shall begin on the day that construction has been completed on the installation of the temporary gas turbine engine. Prior to operating the temporary gas turbine engine, the applicant shall notify the District, in writing, that this construction has been completed. The time period shall end on the day that construction has been completed on the re-installation of the gas turbine engine with S/N 191-746 after it has been repaired. Prior to operating the gas turbine engine with S/N 191-746, the applicant shall notify the District, in writing, that this construction has been completed.

3. The temporary gas turbine engine shall be not be operated unless the air pollution control equipment, CEMS, and data acquisition and recording system specified in the equipment description are in full operation at all times. All conditions specified in this Permit to Operate shall apply to the temporary gas turbine engine.

4. Operation of this equipment shall be conducted in accordance with all data and specifications submitted

with the application under which this permit is issued unless otherwise noted below.

5. This equipment shall be properly maintained and kept in good operating condition at all times. (NSR)

6. The Emission unit shall be fired on Public Utility Commission (PUC) quality natural gas only. The permittee shall maintain quarterly records of sulfur content (grains/100 dscf) and higher and lower heating values (Btu/dscf) of the natural gas and provide such records to the District personnel upon request. [Rule 62 and/or 40 CFR 60 Subpart KKKK)

7. Fuel flow meters shall be installed and maintained to measure the fuel flow rate corrected for temperature and pressure. Correction factors and constants shall be maintained on site and made available to the District upon request. The fuel flow meters shall meet the applicable quality assurance requirements of 40 CFR Part 75 Appendix D, Section 2.1.6. (District Rules 69.3, 69.3.1, 20.3(d)(1); 40 CFR Part 60 Subpart KKKK 60.4345, and 40 CFR Part 75)

8. Except during startup and shutdown conditions, the water injection system, the SCR system and oxidation catalyst control system, including the ammonia injection system serving the turbine, shall be in full operation at all times when the Emission Unit is in operation. (NSR)

9. In the event of a breakdown in an automatic ammonia injection control system, the unit shall be shut down or a trained operator shall operate the ammonia injection control system manually and the breakdown shall be reported to the District Compliance Division pursuant to Rule 98(b)(1) and 98(e). (Rule 98)

10. For this Emission Unit, the applicant shall hold allowances in accordance with 40 CFR 72.9(c)(i)

11. For the purposes of this Permit to Operate, startup conditions shall be defined as the 30-minute time period starting when fuel flow begins. Shutdown conditions shall be defined as the 15-minute time period preceding the moment at which fuel flow ceases. The Data Acquisition System (DAS), as required by 40 CFR 75, shall record these events. [NSR]

12. During startup conditions, the emissions from this emission unit shall not exceed the following emission limits as determined by the continuous emissions monitoring system (CEMS), continuous monitors and/or District-approved emissions testing.

Pollutant	Startup Emission Limit, lbs/event
Oxides of Nitrogen, NOx (calculated as NO2)	19.3
Carbon Monoxide, CO	14.3
Volatile Organic Compounds, VOC	1.4

[NSR]

13. During shutdown conditions, the emissions from this emission unit shall not exceed the following emission limits as determined by the continuous emissions monitoring system (CEMS), continuous monitors and/or District-approved emissions testing.

Pollutant	Shutdown Emission Limit, lbs/event
Oxides of Nitrogen, NOx (calculated as NO2)	7.8
Carbon Monoxide, CO	8.9
Volatile Organic Compounds, VOC	1.4

[NSR]

14. Emissions of nitrogen oxides from each unit exhaust stack shall not exceed 25 parts per million by volume, dry basis (ppmvd) at 15 percent O2 or 150 ng/J of useful output (1.2 lb/MWh) (4 hour average pursuant to 40 CFR § 60.4380(b)). This limit applies at all times including periods of startup and shutdown. [40 CFR 60 Subpart KKKK, Appendix Table 1]

15. Excess emissions shall be as defined in 40 CFR Subpart KKKK § 60.4380. An excess emission is any unit operating period, including periods of startup and shutdown, in which the 4-hour or 30-day rolling

average NOx emission rate exceeds the applicable emission limit in 40 CFR 60 Subpart KKKK, Appendix Table 1.

16. For each affected unit required to continuously monitor parameters or emissions the permittee must submit to the District reports of excess emissions and monitor downtime, in accordance with § 60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction. Reports submitted pursuant to this requirement shall be postmarked no later than the 30th day following the end of the 6-month reporting period. 6-month reporting periods comprise January 1 through June 30, and July 1 through December 31. [40 CFR Subpart KKKK § 60.4375(a)]

17. This equipment shall not be operated more than 2900 operating hours per calendar year. [NSR]

18. Operation of this equipment under startup conditions shall not exceed 600 events per calendar year. [NSR]

19. Fuel input to this equipment shall not exceed 1,280,000 million British thermal units (MMBtu) during any consecutive 12-month period. Compliance with this limit shall be demonstrated by maintaining records of fuel usage (standard cubic feet, scf) and fuel energy content (MMBtu). [NSR]

20. Total combined oxides of nitrogen (NOx) emissions from all permitted equipment at this facility shall not exceed the major source threshold of 50 tons per calendar year. The daily NOx mass emissions from each emission unit shall be recorded daily. The aggregate NOx mass emissions from all emission units for each calendar month, and for each rolling 12-month period, shall be calculated and recorded monthly. In the event that an annual major stationary source threshold is projected to be triggered, the applicant shall submit a complete application to modify this permit at least 6 months prior to the projected date of exceedance demonstrating how compliance with all applicable requirements will be achieved. [NSR]

21. Emissions of oxides of nitrogen (NOx), calculated as nitrogen dioxide, from the emission unit exhaust stack shall not exceed 2.5 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each 1-hour period. Compliance with this limit shall be demonstrated continuously based on CEMS data and based upon source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown conditions. [NSR]

22. Total combined carbon monoxide (CO) emissions from all permitted equipment at this facility shall not exceed the Prevention of Significant Deterioration (PSD) threshold of 250 tons per calendar year. The daily CO mass emissions from each unit shall be recorded daily. The aggregate CO mass emissions from all emission units for each calendar month, and for each rolling 12-month period, shall be calculated and recorded monthly. In the event that an annual PSD stationary source threshold is projected to be triggered, the applicant shall submit a complete application to modify this permit at least 6 months prior to the projected date of exceedance demonstrating how compliance with all applicable requirements will be achieved. [NSR]

23. Emissions of carbon monoxide (CO) from the emission unit exhaust stack shall not exceed 6.0 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each 3-hour period. Compliance with this limit shall be demonstrated continuously based on CEMS data and based upon source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown conditions. [NSR]

24. Total combined volatile organic compound (VOC) emissions from all permitted equipment at this facility shall not exceed the major source threshold of 50 tons per calendar year. The daily VOC emissions from each unit shall be recorded daily. The aggregate VOC mass emissions from all emission units for each calendar month, and for each rolling 12-month period, shall be calculated and recorded monthly. All emission calculations shall be based on fuel usage and emission factors approved by the District. In the event that an annual major stationary source threshold is projected to be triggered, the applicant shall submit a complete application to modify this permit at least 6 months prior to the projected date of exceedance demonstrating how compliance with all applicable requirements will be achieved. [NSR]

25. Emissions of volatile organic compounds (VOCs), calculated as methane, from the emission unit exhaust stack shall not exceed 2.0 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each 1-hour period. Compliance with this limit shall be demonstrated continuously based on CEMS data and based upon source testing calculated as the average of three subtests. At the time of the initial compliance test, a District-approved CO/VOC surrogate relationship shall be established. The CO/VOC surrogate relationship shall be verified and/or modified, if necessary, based on annual source testing. This limit shall not apply during startup and shutdown conditions. [NSR]

26. The emissions from this emission unit shall not exceed the following emission limits, except during startup and shutdown conditions, as determined by the continuous emissions monitoring system (CEMS), continuous monitors and/or District-approved emissions testing, calculated as the average of three subtests. Compliance with each limit shall be based on a 1-hour averaging period.

Pollutant	Emission Limit, lbs/hr
Oxides of Nitrogen, NOx (calculated as NO2)	4.4
Carbon Monoxide, CO	6.4
Volatile Organic Compounds, VOC	1.2

[NSR]

27. The emissions from this emission unit shall not exceed the following emission limits as determined by the continuous emissions monitoring system (CEMS), continuous monitors and/or District-approved emissions testing. Compliance with each limit shall be based on a calendar day averaging period.

Pollutant	Emission Limit, lbs/day
Oxides of Nitrogen, NOx (calculated as NO2)	124.1
Carbon Monoxide, CO	164.8
Volatile Organic Compounds, VOC	29.5

[NSR]

28. The emissions from this emission unit shall not exceed the following emission limits as determined by the continuous emissions monitoring system (CEMS), continuous monitors and/or District-approved emissions testing. Compliance with each limit shall be based on a calendar year averaging period.

Pollutant	Emission Limit, tons/yr
Oxides of Nitrogen, NOx (calculated as NO2)	12.0
Carbon Monoxide, CO	15.4
Volatile Organic Compounds, VOC	2.7

[NSR]

29. Ammonia emissions from the emission unit exhaust stack shall not exceed 10 ppmvd corrected to 15% oxygen. Compliance with this limit shall be demonstrated based upon source testing calculated as the average of three subtests and utilizing one of the following procedures:
    a. calculate 1-hour ammonia concentration (ppmvd) using the following equation:
        NH3 = ((a-(b * c/1,000,000))* (1,000,000/b)) * d
        where: a = ammonia injection rate (lbs/hr) / (17.0 lbs/lb-mole),
        b = exhaust flow rate @ 15% oxygen / (29 lbs/lb-mole),
        c = change in measured NOx concentration (ppmvd @ 15% oxygen) across the catalyst,
        d = ratio of measured ammonia slip to calculated ammonia slip as derived during compliance testing;
    b. other calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% oxygen, as approved, in writing, by the District.
    [Rule 1200]

30. An operating log or Data Acquisition System (DAS) records shall be maintained on site to record actual times and durations of all:
    -startups
    -shutdowns

-quantity of each fuel used
-hours of daily operation
-total cumulative hours of operation during each calendar year (Rule 20.3)

31. A Continuous Emission Monitoring System (CEMS) shall be installed and calibrated to measure and record the:
-hourly average concentration and hourly mass emission rate of oxides of nitrogen (NOx)
-the hourly average concentration and daily mass emission rate of carbon monoxide (CO)
-the percent oxygen (O2) in the exhaust gas
The CEMS shall thereafter be in full operation at all times when the unit is in operation. (Rule 20.3 and Rule 69.3.1)

32. All NOx and O2 CEMS shall be installed, certified, and maintained pursuant to applicable Federal Regulations including the requirements of Sections 75.10 and 75.12 of Title 40, Code of Federal Regulations Part 75 (40 CFR 75), the performance specifications of Appendix A of 40 CFR 75, the quality assurance procedures of Appendix B of 40 CFR 75 and a CEMS Protocol approved by the District. (Rule 69.3.1 and 40 CFR Part 75)

33. All CO CEMS shall be installed, certified, and maintained pursuant to applicable Federal Regulations including the requirements of 40 CFR 60 Appendix B & F and a CEMS protocol approved by the District. (Rule 69.3.1)

34. The District shall be notified in writing at least two (2) weeks prior to any changes made in the CEMS software that affect the measurement, calculation or correction of data displayed and/or recorded by the CEMS. (Rule 69.3.1 and 40 CFR Part 75)

35. Any violation of any emission standard as indicated by the CEMS shall be reported to the District's Compliance Division within 96 hours after such occurrence. (CA Health and Safety Code, Division 26, Part 4, Chapter 5 § 42706)

36. The unit shall be equipped with continuous parametric monitors to measure, calculate and to record the following operational characteristics:
a. hours of operation (hours),
b. natural gas flow rate (scfh),
c. exhaust gas temperature (°F),
d. SCR average temperature (°F),
e. ammonia injection rate (lbs/hr),
f. water injection rate (lbs/hr) for NOx control,
g. power output (MW).
These monitors shall be installed, calibrated and maintained in accordance with the manufacturer's recommended procedures and a protocol approved by the District. All monitors shall be in full operation at all times when the turbine is in operation. (Rules 20.3 and 69.3.1)

37. Monthly and annual records of fuel usage shall be maintained and made available to the District upon request. [NSR]

38. Monthly and annual records shall indicate actual times and duration of all startups, shutdowns, and quantity of fuel used. [NSR]

39. The ammonia injection flow rate shall be continuously monitored, recorded and controlled. Records of ammonia injection rate and flow rate device calibration shall be maintained and made available to the District.

40. All records required by this written permit shall be maintained on site for a minimum of five years and made available to the District upon request. (Rule 1421)

41. A monitoring plan in conformance with 40 CFR 75.53 shall be submitted to U.S. EPA Region 9 and the District at least 45 days prior to the Relative Accuracy Test Audit test, as required in 40 CFR 75.62. (40 CFR Part 75)

42. This unit shall be source tested once each permit year (annual source test) to demonstrate compliance with the NOx, CO, VOC, and Ammonia emission standards of this permit, using District approved methods. NOx and CO RATA tests shall be conducted in accordance with the RATA frequency requirements of 40 CFR 75 Appendix B, Sections 2.3.1 and 2.3.3. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District. Each annual source test shall be separated by at least 90 days from any annual source test performed in a different permit year. (District Rules 69.3, 69.3.1, 1200, 20.3 (d)(1); 40 CFR 60 Subpart KKKK § 60.4375; 40 CFR Part 75)

43. After completion of construction, the CEMS systems described in this permit shall be recertified according to the provisions and based on the required timelines of 40 CFR part 60 for the CO CEMS and part 75 for the NOx CEMS.

44. The NOx and ammonia emission limits, with the exception of the NSPS KKKK 25 ppmvd NOx limit corrected to 15% oxygen, annual 12 ton/yr NOx emission limit, and NOx emission limits specifically applicable during the commissioning period do not apply during the commissioning period as defined in this authority to construct. Emission limits for all other pollutants remain in effect.

45. For the purposes of this authority to construct the commissioning period shall be defined as the time following the first operation of the gas turbine following the installation of the mixing and perforated plates described in this authority to construct until the SCR system is fully operational or 100 operating hours have passed, whichever comes first.

46. All operation of the turbine during the commissioning period shall be conducted according to a commissioning protocol. The commissioning protocol shall be designed to minimize excess NOx and ammonia emissions during the commissioning period. A copy of this protocol shall be maintained on-site and provided to the District prior to beginning operation of the turbine during the commissioning period.

47. All emissions during the commissioning period shall be included in the calculation of the turbine's annual emissions. During any period where the CEMS is not operating, emissions shall be calculated based on measured fuel flow and a NOx emission factor of 0.092 lb/MMBtu.

48. NOx emissions during the commissioning period shall not exceed either of the following limits:
    a. 43.2 lb/hr
    b. 377.5 lb/day
    [Rule 20.2(d)(2)]

49. Within 30 days following completion of the commissioning period, or alternative schedule as approved by the District, the owner or operator shall submit a commissioning report to the District that includes:
    a. Date and duration of each period of operation during the commissioning period
    b. Cumulative, total operating hours during the commissioning period
    c. Hourly NOx emissions (lb/hr) during each clock hour during the commissioning period
    d. Daily NOx emissions (lb/day) during each calendar day during the commissioning period
    e. Cumulative total NOx emissions (pounds) during the commissioning period.
    [Rule 20.2]

50. Within 60 days from the date that construction of the above equipment is complete in accordance with this Authority to Construct and a Notice of Completion of Construction is submitted to the District, an initial source test shall be conducted by an independent ARB approved tester or the District, at the applicant's expense, to determine initial compliance with the emission standards of this Authority to Construct and applicable District rules. If conducted by an independent tester, the test shall be witnessed

by District Personnel.

51. A source test protocol shall be submitted to the District for review and approval at least 30 days prior to the initial source test. The source test protocol shall comply with the following requirements:

    a. Measurement of NOx, CO, ammonia and oxygen content of the exhaust gas shall be determined in accordance with methods elsewhere described in this permit for periodic testing.

    b. NOx and CO and ammonia emission concentrations shall be calculated as an average of three subtests. The averaging period to calculate emission concentrations and to determine compliance from the results of source testing shall be at least 30 minutes and not more than 60 minutes unless otherwise specified in writing by the Air Pollution Control Officer.

52. Within 30 days after the completion of source testing, a final test report shall be submitted to the District for review and approval. The testing contractor shall include as part of the test report a certification that to the best of their knowledge the report is a true and accurate representation of the test conducted and the results.

53. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.

54. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.

55. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

This Authority to Construct does not authorize operation of the above-specified equipment until written notification has been provided to the District indicating that construction (or modification) has been completed in accordance with this Authority to Construct. Upon submission of this notification, temporary Permit to Operate shall take effect and will remain in effect, unless withdrawn or modified by the District, until the equipment is inspected by the District and a revised temporary permit (Startup Authorization) is issued or a Permit to Operate is granted or denied.

This Authority to Construct shall be posted on or within 25 feet of the above described equipment or maintained readily available at all times on the operating premises.

Upon completion of construction (or modification) in accordance with this Authority to Construct, and prior to commencing operation, the applicant must complete and mail, deliver or email to APCDPermits@sdcounty.ca.gov the enclosed Construction Completion Notice to the District. After mailing, delivering or emailing the notice, the applicant may commence operation of the equipment. Operation must be in compliance with all the conditions of this Authority to Construct and applicable District Rules.

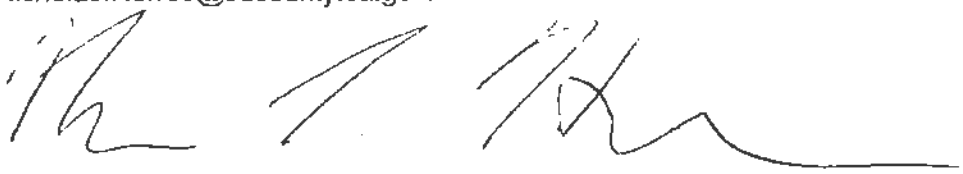
This Authority to Construct does not relieve the holder from obtaining permits or authorizations, which may be required by other governmental agencies. This Authority to Construct is not authority to exceed any applicable emission standard established by this District or any other governmental agency. This authorization is subject to cancellation if any emission standard or condition is violated.

Within 30 days after receipt of this Authority to Construct, the applicant may petition the Hearing Board for a hearing on any conditions imposed herein in accordance with Rule 25.

This Authority to Construct will expire on 11/17/2016 unless an extension is granted in writing.

This is not a Permit to Operate. Please be advised that installation or operation of this process or equipment without written authorization may be a misdemeanor subject to fines and penalties.

If you have any questions regarding this action, please contact me at (858) 586 2728 or via email at Nicholas.Horres@sdcounty.ca.gov.



Nicholas Horres
Associate Engineer

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 2, D
Site Record ID: APCD2000-SITE-03769
Application Record ID: APCD2015-APP-004232
Authority To Construct Expiration Date: 11/17/2016

APPLICATION ID
APCD2015-APP-004232

Escondido Energy Center LLC
Paul Cummins
1968 Don Lee Place
Escondido CA, 92029

EQUIPMENT ADDRESS
Escondido Energy Center LLC
Paul Cummins
1968 Don Lee Place
Escondido CA 92029

CONSTRUCTION COMPLETION NOTICE

Please complete the APPLICANT ONLY section of this notice and send it to APCD upon completion of construction. The following information is based on submitted Application APCD2015-APP-004232.You can email an electronic copy to: Nicholas.Horres@sdcounty.ca.gov

EQUIPMENT DESCRIPTION

Installation of perforation plates and flow straighteners inside natural gas turbine exhaust stack, removal of inactive SCR catalyst bed.

APCD Assigned Staff: Nicholas Horres
Telephone: (858) 586 2728
Email: Nicholas.Horres@sdcounty.ca.gov

APPLICANT ONLY

Date Construction was Completed: __/__/____ (MM/DD/YYYY)
Equipment Serial Number: _____
Date of this Notification: __/__/____ (MM/DD/YYYY)
Person providing Notification: _____
Contact Telephone Number: _____
Signature: _____

APCD ONLY

Notification Received Date: __/__/____ (MM/DD/YYYY)
BCMS Entry Date: __/__/____ (MM/DD/YYYY)

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
(858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Application Record ID
APCD2015-APP-003977

Sectors: 2, D
Site Record ID: APCD2000-SITE-03769

Escondido Energy Center LLC
Paul Cummins
1968 Don Lee Place
Escondido, CA 92029

EQUIPMENT ADDRESS
Escondido Energy Center LLC
Paul Cummins
1968 Don Lee Place
Escondido, CA 92029

AUTHORITY TO CONSTRUCT

EXPIRES: March 30, 2016

After examination of your Application for an Air Pollution Control District (**hereinafter referred to as** "the District") Authority to Construct and Permit to Operate for equipment located at the above location, the District has decided on the following actions:

Authority to Construct is granted pursuant to Rule 20 of the Air Pollution Control District Rules and Regulations for equipment to consist of:

Gas Turbine Engine Generator: General Electric, Model LM-6000, rated at 46.5 MW, 468.8 MMBtu/hr rated heat input, natural gas fired, simple cycle, S/N 191-746, with an inlet air evaporative cooling system ("fogger"); water injection, a Tachnip selective catalytic reduction (SCR) system, including an automatic ammonia injection control system; an oxidation catalyst; CEMS for NOx, CO and O2; and a data acquisition and recording system.

This Authority to Construct is issued with the following conditions:

1. In the event that this gas turbine engine generator with S/N 191-746 is removed from service for required repair, the applicant may install an identical gas turbine engine generator (General Electric, Model LM-6000, 46.5 MW capacity) may be installed and operated on a time period not to exceed 90 calendar days. This time period shall begin on the day that construction has been completed on the installation of the temporary gas turbine engine generator. . Prior to operating the temporary gas turbine engine generator, the applicant shall notify the District, in writing, that this construction has been completed. The time period shall end on the day that construction has been completed on the installation of the gas turbine engine generator with S/N 191-746 after it has been repaired. Prior to operating the permitted gas turbine engine generator, the applicant shall notify the District, in writing, that this construction has been completed.

2. The temporary gas turbine engine generator shall be not be operated unless the air pollution control equipment, CEMS, and data acquisition and recording system specified in the equipment description are in full operation at all times the temporary gas turbine engine generator is in operation. All conditions specified in this Authority to Construct shall apply to the temporary gas turbine engine generator.

3. Within 30 days of construction completion of re-installing the engine generator with S/N 191-746, this turbine shall be source tested to demonstrate compliance with the NOx, CO, VOC and ammonia emission standards of this permit. NOx and CO RATA tests shall be conducted in accordance with the RATA frequency requirements of 40 CFR 75 Appendix B, Sections 2.3.1 and 2.3.3. It is the responsibility

of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District.

4. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

5. This equipment shall be properly maintained and kept in good operating condition at all times. (NSR)

6. The Emission unit shall be fired on Public Utility Commission (PUC) quality natural gas only. The permittee shall maintain quarterly records of sulfur content (grains/100 dscf) and higher and lower heating values (Btu/dscf) of the natural gas and provide such records to the District personnel upon request. [Rule 62 and/or 40 CFR 60 Subpart KKKK)

7. Except during startup and shutdown conditions, the water injection system, the SCR system and oxidation catalyst control system, including the ammonia injection system serving the turbine, shall be in full operation at all times when the Emission Unit is in operation. (NSR)

8. In the event of a breakdown in an automatic ammonia injection control system, the unit shall be shut down or a trained operator shall operate the ammonia injection control system manually and the breakdown shall be reported to the District Compliance Division pursuant to Rule 98(b)(1) and 98(e). (Rule 98)

9. For this Emission Unit, the applicant shall hold allowances in accordance with 40 CFR 72.9(c)(i)

10. For the purposes of this Permit to Operate, startup conditions shall be defined as the 30-minute time period starting when fuel flow begins. Shutdown conditions shall be defined as the 15-minute time period preceding the moment at which fuel flow ceases. The Data Acquisition System (DAS), as required by 40 CFR 75, shall record these events. [NSR]

11. During startup conditions, the emissions from this emission unit shall not exceed the following emission limits as determined by the continuous emissions monitoring system (CEMS), continuous monitors and/or District-approved emissions testing.

Pollutant	Startup Emission Limit, lbs/event
Oxides of Nitrogen, NOx (calculated as NO2)	19.3
Carbon Monoxide, CO	14.3
Volatile Organic Compounds, VOC	1.4

[NSR]

12. During shutdown conditions, the emissions from this emission unit shall not exceed the following emission limits as determined by the continuous emissions monitoring system (CEMS), continuous monitors and/or District-approved emissions testing.

Pollutant	Shutdown Emission Limit, lbs/event
Oxides of Nitrogen, NOx (calculated as NO2)	7.8
Carbon Monoxide, CO	8.9
Volatile Organic Compounds, VOC	1.4

[NSR]

13. Emissions of nitrogen oxides from each unit exhaust stack shall not exceed 25 parts per million by volume, dry basis (ppmvd) at 15 percent O2 or 150 ng/J of useful output (1.2 lb/MWh) (4 hour average pursuant to 40 CFR § 60.4380(b)). This limit applies at all times including periods of startup and shutdown. [40 CFR 60 Subpart KKKK, Appendix Table 1]

14. Excess emissions shall be as defined in 40 CFR Subpart KKKK § 60.4380. An excess emission is any unit operating period, including periods of startup and shutdown, in which the 4-hour or 30-day rolling average NOx emission rate exceeds the applicable emission limit in 40 CFR 60 Subpart KKKK, Appendix Table 1.

15. For each affected unit required to continuously monitor parameters or emissions the permittee must submit to the District reports of excess emissions and monitor downtime, in accordance with § 60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction. Reports submitted pursuant to this requirement shall be postmarked no later than the 30th day following the end of the 6-month reporting period. 6-month reporting periods comprise January 1 through June 30, and July 1 through December 31. [40 CFR Subpart KKKK § 60.4375(a)]

16. This equipment shall not be operated more than 2900 operating hours per calendar year. [NSR]

17. Operation of this equipment under startup conditions shall not exceed 600 events per calendar year. [NSR]

18. Fuel input to this equipment shall not exceed 1,280,000 million British thermal units (MMBtu) during any consecutive 12-month period. Compliance with this limit shall be demonstrated by maintaining records of fuel usage (standard cubic feet, scf) and fuel energy content (MMBtu). [NSR]

19. Total combined oxides of nitrogen (NOx) emissions from all permitted equipment at this facility shall not exceed the major source threshold of 50 tons per calendar year. The daily NOx mass emissions from each emission unit shall be recorded daily. The aggregate NOx mass emissions from all emission units for each calendar month, and for each rolling 12-month period, shall be calculated and recorded monthly. In the event that an annual major stationary source threshold is projected to be triggered, the applicant shall submit a complete application to modify this permit at least 6 months prior to the projected date of exceedance demonstrating how compliance with all applicable requirements will be achieved. [NSR]

20. Emissions of oxides of nitrogen (NOx), calculated as nitrogen dioxide, from the emission unit exhaust stack shall not exceed 2.5 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each 1-hour period. Compliance with this limit shall be demonstrated continuously based on CEMS data and based upon source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown conditions. [NSR]

21. Total combined carbon monoxide (CO) emissions from all permitted equipment at this facility shall not exceed the Prevention of Significant Deterioration (PSD) threshold of 250 tons per calendar year. The daily CO mass emissions from each unit shall be recorded daily. The aggregate CO mass emissions from all emission units for each calendar month, and for each rolling 12-month period, shall be calculated and recorded monthly. In the event that an annual PSD stationary source threshold is projected to be triggered, the applicant shall submit a complete application to modify this permit at least 6 months prior to the projected date of exceedance demonstrating how compliance with all applicable requirements will be achieved. [NSR]

22. Emissions of carbon monoxide (CO) from the emission unit exhaust stack shall not exceed 6.0 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each 3-hour period. Compliance with this limit shall be demonstrated continuously based on CEMS data and based upon source testing calculated as the average of three subtests. This limit shall not apply during startup and shutdown conditions. [NSR]

23. Total combined volatile organic compound (VOC) emissions from all permitted equipment at this facility shall not exceed the major source threshold of 50 tons per calendar year. The daily VOC emissions from each unit shall be recorded daily. The aggregate VOC mass emissions from all emission units for each calendar month, and for each rolling 12-month period, shall be calculated and recorded monthly. All emission calculations shall be based on fuel usage and emission factors approved by the District. In the event that an annual major stationary source threshold is projected to be triggered, the applicant shall submit a complete application to modify this permit at least 6 months prior to the projected date of exceedance demonstrating how compliance with all applicable requirements will be achieved. [NSR]

24. Emissions of volatile organic compounds (VOCs), calculated as methane, from the emission unit exhaust

stack shall not exceed 2.0 parts per million volume on a dry basis (ppmvd) corrected to 15% oxygen and averaged over each 1-hour period. Compliance with this limit shall be demonstrated continuously based on CEMS data and based upon source testing calculated as the average of three subtests. At the time of the initial compliance test, a District-approved CO/VOC surrogate relationship shall be established. The CO/VOC surrogate relationship shall be verified and/or modified, if necessary, based on annual source testing. This limit shall not apply during startup and shutdown conditions. [NSR]

25. The emissions from this emission unit shall not exceed the following emission limits, except during startup and shutdown conditions, as determined by the continuous emissions monitoring system (CEMS), continuous monitors and/or District-approved emissions testing, calculated as the average of three subtests. Compliance with each limit shall be based on a 1-hour averaging period.

Pollutant	Emission Limit, lbs/hr
Oxides of Nitrogen, NOx (calculated as NO2)	4.4
Carbon Monoxide, CO	6.4
Volatile Organic Compounds, VOC	1.2

[NSR]

26. The emissions from this emission unit shall not exceed the following emission limits as determined by the continuous emissions monitoring system (CEMS), continuous monitors and/or District-approved emissions testing. Compliance with each limit shall be based on a calendar day averaging period.

Pollutant	Emission Limit, lbs/day
Oxides of Nitrogen, NOx (calculated as NO2)	124.1
Carbon Monoxide, CO	164.8
Volatile Organic Compounds, VOC	29.5

[NSR]

27. The emissions from this emission unit shall not exceed the following emission limits as determined by the continuous emissions monitoring system (CEMS), continuous monitors and/or District-approved emissions testing. Compliance with each limit shall be based on a calendar year averaging period.

Pollutant	Emission Limit, tons/yr
Oxides of Nitrogen, NOx (calculated as NO2)	12.0
Carbon Monoxide, CO	15.4
Volatile Organic Compounds, VOC	2.7

[NSR]

28. Emissions of particulate matter less than 10 microns (PM10) shall not exceed 3.0 pounds per hour. Compliance with this limit shall be demonstrated based upon source testing calculated as the average of three subtests. [NSR]

29. Ammonia emissions from the emission unit exhaust stack shall not exceed 10 ppmvd corrected to 15% oxygen. Compliance with this limit shall be demonstrated based upon source testing calculated as the average of three subtests and utilizing one of the following procedures:
    a. calculate 1-hour ammonia concentration (ppmvd) using the following equation:
        NH3 = ((a-(b * c/1,000,000))* (1,000,000/b)) * d
        where: a = ammonia injection rate (lbs/hr) / (17.0 lbs/lb-mole),
        b = exhaust flow rate @ 15% oxygen / (29 lbs/lb-mole),
        c = change in measured NOx concentration (ppmvd @ 15% oxygen) across the catalyst,
        d = ratio of measured ammonia slip to calculated ammonia slip as derived during compliance testing;
    b. other calculation method using measured surrogate parameters to determine the daily ammonia emissions in ppmvd @ 15% oxygen, as approved, in writing, by the District.
[Rule 1200]

30. An operating log or Data Acquisition System (DAS) records shall be maintained on site to record actual times and durations of all:

-startups
-shutdowns
-quantity of each fuel used
-hours of daily operation
-total cumulative hours of operation during each calendar year (Rule 20.3)

31. A Continuous Emission Monitoring System (CEMS) shall be installed and calibrated to measure and record the:
-hourly average concentration and hourly mass emission rate of oxides of nitrogen (NOx)
-the hourly average concentration and daily mass emission rate of carbon monoxide (CO)
-the percent oxygen (O2) in the exhaust gas
The CEMS shall thereafter be in full operation at all times when the unit is in operation. (Rule 20.3 and Rule 69.3.1)

32. All NOx and O2 CEMS shall be installed, certified, and maintained pursuant to applicable Federal Regulations including the requirements of Sections 75.10 and 75.12 of Title 40, Code of Federal Regulations Part 75 (40 CFR 75), the performance specifications of Appendix A of 40 CFR 75, the quality assurance procedures of Appendix B of 40 CFR 75 and a CEMS Protocol approved by the District. (Rule 69.3.1 and 40 CFR Part 75)

33. All CO CEMS shall be installed, certified, and maintained pursuant to applicable Federal Regulations including the requirements of 40 CFR 60 Appendix B & F and a CEMS protocol approved by the District. (Rule 69.3.1)

34. The District shall be notified in writing at least two (2) weeks prior to any changes made in the CEMS software that affect the measurement, calculation or correction of data displayed and/or recorded by the CEMS. (Rule 69.3.1 and 40 CFR Part 75)

35. Any violation of any emission standard as indicated by the CEMS shall be reported to the District's Compliance Division within 96 hours after such occurrence. (CA Health and Safety Code, Division 26, Part 4, Chapter 5 § 42706)

36. The unit shall be equipped with continuous parametric monitors to measure, calculate and to record the following operational characteristics:
a. hours of operation (hours),
b. natural gas flow rate (scfh),
c. exhaust gas temperature (°F),
d. SCR average temperature (°F),
e. ammonia injection rate (lbs/hr),
f. water injection rate (lbs/hr) for NOx control,
g. power output (MW).
These monitors shall be installed, calibrated and maintained in accordance with the manufacturer's recommended procedures and a protocol approved by the District. All monitors shall be in full operation at all times when the turbine is in operation. (Rules 20.3 and 69.3.1)

37. Fuel flow meters shall be installed and maintained to measure the fuel flow rate corrected for temperature and pressure. Correction factors and constants shall be maintained on site and made available to the District upon request. The fuel flow meters shall meet the applicable quality assurance requirements of 40 CFR Part 75 Appendix D, Section 2.1.6. (District Rules 69.3, 69.3.1, 20.3(d)(1); 40 CFR Part 60 Subpart KKKK 60.4345, and 40 CFR Part 75)

38. Monthly and annual records of fuel usage shall be maintained and made available to the District upon request. [NSR]

39. Monthly and annual records shall indicate actual times and duration of all startups, shutdowns, and quantity of fuel used. [NSR]

40. The ammonia injection flow rate shall be continuously monitored, recorded and controlled. Records of ammonia injection rate and flow rate device calibration shall be maintained and made available to the District.

41. All records required by this written permit shall be maintained on site for a minimum of five years and made available to the District upon request. (Rule 1421)

42. A monitoring plan in conformance with 40 CFR 75.53 shall be submitted to U.S. EPA Region 9 and the District at least 45 days prior to the Relative Accuracy Test Audit test, as required in 40 CFR 75.62. (40 CFR Part 75)

43. This unit shall be source tested once each permit year (annual source test) to demonstrate compliance with the NOx, CO, VOC, and Ammonia emission standards of this permit, using District approved methods. NOx and CO RATA tests shall be conducted in accordance with the RATA frequency requirements of 40 CFR 75 Appendix B, Sections 2.3.1 and 2.3.3. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District. Each annual source test shall be separated by at least 90 days from any annual source test performed in a different permit year. (District Rules 69.3, 69.3.1, 1200, 20.3 (d)(1); 40 CFR 60 Subpart KKKK § 60.4375; 40 CFR Part 75)

44. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.

45. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.

46. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

This Authority to Construct does not authorize operation of the above-specified equipment until written notification has been provided to the District indicating that construction (or modification) has been completed in accordance with this Authority to Construct. Upon submission of this notification, temporary Permit to Operate shall take effect and will remain in effect, unless withdrawn or modified by the District, until the equipment is inspected by the District and a revised temporary permit (Startup Authorization) is issued or a Permit to Operate is granted or denied.

This Authority to Construct shall be posted on or within 25 feet of the above described equipment or maintained readily available at all times on the operating premises.

Upon completion of construction (or modification) in accordance with this Authority to Construct, and prior to commencing operation, the applicant must complete and mail, deliver or email to APCDPermits@sdcounty.ca.gov the enclosed Construction Completion Notice to the District. After mailing, delivering or emailing the notice, the applicant may commence operation of the equipment. Operation must be in compliance with all the conditions of this Authority to Construct and applicable District Rules.

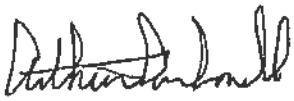
This Authority to Construct does not relieve the holder from obtaining permits or authorizations, which may be required by other governmental agencies. This Authority to Construct is not authority to exceed any applicable emission standard established by this District or any other governmental agency. This authorization is subject to cancellation if any emission standerd or condition is violatad.

Within 30 days after receipt of this Authority to Construct, the applicant may petition the Hearing Board for a hearing on any conditions imposed herein in accordance with Rule 25.

This Authority to Construct will expire on 03/30/2016 unless an extension is granted in writing.

This is not a Permit to Operate. Please be advised that installation or operation of this process or equipment without written authorization may be a misdemeanor subject to fines and penalties.

If you have any questions regarding this action, please contact me at (858) 586 2741 or via email at Arthur.Carbonell@sdcounty.ca.gov.



Arthur Carbonell
Associate Engineer