

DOCKETED

Docket Number:	09-AFC-07C
Project Title:	Palen Solar Power Project - Compliance
TN #:	200951
Document Title:	Preliminary Determination of Compliance / Title V / Notice of Intent to Issue Permit
Description:	PDOC/Title V/Public Notice
Filer:	Alicia Campos
Organization:	South Coast Air Quality Management District
Submitter Role:	Public Agency
Submission Date:	10/18/2013 2:57:13 PM
Docketed Date:	10/18/2013



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

October 18, 2013

Mr. Gerardo Rios – via email (R9AirPermits_sc@epa.gov)
USEPA Region IX, Mail Stop AIR-3
75 Hawthorne
San Francisco, CA 94105

Subject: Preliminary Determination of Compliance (PDOC) for Palen Solar Electric Generation Station, (Facility ID# 174021) , to be located at Corn Spring Road, Desert Center, CA 92239 (09-AFC-07)

Dear Mr. Rios:

The South Coast Air Quality Management District (SCAQMD) has received and reviewed permit applications for the subject solar electric generation project. Palen Solar Electric Generation Station (PSEGS) is proposing to install and operate a 500 megawatt (MW) solar electric generation power plant located at Corn Springs Road, Desert Center, CA 92239. This power plant will operate annually on a continuous basis.

Based on the emission potential, this project is subject to the public notice requirements of SCAQMD Rules 212 (Standards for Approving Permits) and 3006 (Title V), and has applied for a significant permit revision under the Title V regulation. Therefore, this project is subject to a 45-day EPA review and a 30-day public notice period under SCAQMD Rules 212, 3003, and 3006.

The SCAQMD has evaluated the subject permit applications and made a preliminary determination that the equipment will comply with all of the applicable requirements of our rules and regulations. We intend to take final action on the permit at (1) the end of the 30-day public comment and review period and after all pertinent comments have been considered, and (2) upon receiving and consideration of EPA comments on the initial Title V Facility Permit.

Please find enclosed SCAQMD's PDOC analyses, the draft Title V Facility Permit to Construct and the public notice for the subject project issued in accordance with SCAQMD Rules 212 and 3006. The public notice provides for a 30-day public comment period and a 45-day EPA review period prior to making a final decision on issuance of the permit. The public notice is also being published in a newspaper of

general circulation in the vicinity of the project, and it is also being forwarded to other interested parties. Upon completion of the public comment and EPA review periods, SCAQMD will evaluate the comments received during the comment period prior to issuance of any Final Determination of Compliance (FDOC).

If you wish to provide comments or have any questions regarding this project, please contact Mr. Roy Olivares at (909) 396-2208/ rolivares@aqmd.gov or Mr. John Yee at (909) 396-2531/ jyee@aqmd.gov.

Sincerely,



Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering and Compliance

MN:AYL:CDT:JTY:rdo

Enclosures: Public Notice
Proposed Title V Permit
Preliminary Engineering Analysis

cc: Mr. Charles Turlinski, Palen Solar Electric Generation Station, w/out enclosures
CERTIFIED MAIL/RETURN RECEIPT REQUESTED

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Title V Permit Summary

AQMD Facility ID:	174021	Company Name:	PALEN SOLAR ELECTRIC GENERATING STATION
Equipment Location:	CORN SPRING ROAD, DESERT CENTER, CA 92239		SIC Code: 221114
Permit Revision #:	Revision Date:	Facility Permit Section(s) Affected: ALL	
Application #(s):	549399	Application Submittal Date(s):	04/04/2013
AQMD Contact Person:	ROY OLIVARES	Phone #:	(909) 396-2208
		E-Mail Address:	rolivares@aqmd.gov
Project Description: This is a new facility applying for an initial Title V Permit. The proposed facility will provide electricity to the electrical grid. This facility is proposing to install 4 boilers, 2 SCR control systems, 3 diesel fueled ICEs driving emergency electrical and three emergency diesel fueled fire pump			
Permit Type: <input checked="" type="checkbox"/> Initial Title V Permit <input type="checkbox"/> Significant Revision <input type="checkbox"/> Permit Renewal			
Permit Features: <input type="checkbox"/> Federally Enforceable Emission Cap For Exemption From Certain NESHAP Requirements <input type="checkbox"/> Permit Shield Applies <input checked="" type="checkbox"/> Permit Contains Conditions Allowing Emission Trading <input type="checkbox"/> Alternative Operating Scenario <input type="checkbox"/> Permit Streamlines Overlapping or Outdated Requirements <input type="checkbox"/> Other: _____ <input type="checkbox"/> Source Out of Compliance With Applicable Requirements and/or Operating Under a Variance			
Toxic Air Contaminant Emissions (TAC) - Annual Reported Emissions for		<input checked="" type="checkbox"/> No TACs Reported <input type="checkbox"/> The Following TACs Were Reported: Emissions (lbs/yr): See attachment A	
Health Risk From Toxic Air Contaminants: <input type="checkbox"/> Health Risk Assessment Required for this Permit Action (AQMD Rule 1401) <input type="checkbox"/> Health Risk Reduction Plan Approved (AQMD Rule 1402) (Year): _____ <input type="checkbox"/> Facility is Subject to Review by the Air Toxics Information and Assessment Act (AB2588) <input type="checkbox"/> Facility Determined to be Exempt from AB2588 Requirements <input type="checkbox"/> AQMD is Tracking Status of Facility under AB2588 <input type="checkbox"/> Health Risk Assessment Submittal Pending <input type="checkbox"/> Health Risk Assessment Submitted to AQMD and Is Being Reviewed <input type="checkbox"/> Final Facility Health Risk Approved (date) _____ Cancer Risk = _____ in one million Acute Hazard Index = _____ Chronic Hazard Index = _____			
Criteria Pollutant Emissions Annual Reported Emissions (tons/year) for Reporting Year: 2013		<input checked="" type="checkbox"/> NOx 0 <input checked="" type="checkbox"/> PM 0 <input checked="" type="checkbox"/> CO 0 <input checked="" type="checkbox"/> SOx 0 <input checked="" type="checkbox"/> VOC 0	
Compliance History: <input checked="" type="checkbox"/> Citizen Complaints Filed in Last Two Calendar Years (0) <input checked="" type="checkbox"/> Notices to Comply Issued in Last Two Calendar Years (0) <input checked="" type="checkbox"/> Notices of Violation Issued in Last Two Calendar Years (0)			
Comments: new facility no compliance, criteria annual reported emissions or Health risk history			



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NOTICE OF INTENT TO ISSUE PERMIT PURSUANT TO AQMD RULES 212 AND 3006

This notice is to inform you that the South Coast Air Quality Management District (SCAQMD) has received and reviewed permit applications for the proposed Palen Solar Electric Generating Station (PSEGS) power plant project and intends to issue a Title V Facility Permit at the end of the 30-day public and 45-day U.S. Environmental Protection Agency review and comment period and after all pertinent comments have been considered.

The SCAQMD is the air pollution control agency for the four county-region including Orange County and parts of Los Angeles, Riverside and San Bernardino counties. Anyone wishing to install or modify equipment that could control or be a source of air pollution within this region must first obtain a permit from the SCAQMD. Under certain circumstances, before a permit is granted, a public notice, such as this, is prepared by the SCAQMD and distributed.

The SCAQMD has evaluated the permit applications listed below for the following facility and made a preliminary determination that the project meets or will meet all applicable SCAQMD rules and regulations for the issuance of a Proposed Title V Permit based upon the evaluation described below:

FACILITY: Palen Solar Electric Generation Station
Corn Spring Road
Desert Center, CA 92239
Facility ID No: 174021

CONTACT: Mr. Charles Turlinski
Project Manager
Palen Solar Electric Generation Station
1999 Harrison Street, Suite 2150
Oakland, CA 94612

AQMD APPLICATION NUMBERS

Application Number	Equipment Description
549379	Auxiliary Boiler no. 1
549380	Auxiliary Boiler no. 2
549381	Night Preservation Boiler no. 1
549383	Night Preservation Boiler no. 2
549387	Emergency ICE no. 1
549389	Emergency ICE no. 2
549390	Emergency ICE no. 3
549384	Emergency Fire Pump ICE no. 1
549385	Emergency Fire Pump ICE no. 2
549386	Emergency Fire Pump ICE no. 3
553874	SCR/CO Catalyst no. 1
553875	SCR/CO Catalyst no. 2
549399	RECLAIM/Title V application

PROJECT DESCRIPTION

The project consists of construction and operation of a new power plant with the capability of generating a total of 500 megawatts (MW) of electrical power consisting of two (2) new, 249 MMBtu/hr natural gas fired boilers with associated air pollution control systems, two (2), 10.5 MMBtu/hr natural gas fired boilers, two (2) 3363 brake horsepower diesel fuel fired emergency engines driving electrical generators, one (1) 398 brake horsepower diesel

fuel fired emergency engines driving electrical a generator, three (3) 617 brake horsepower diesel fueled emergency engines driving fire pumps. Since the above equipment has the potential to emit pollutants in excess of the emission levels specified in SCAQMD Rule 212(g), a public notice is required.

PROJECTED EMISSIONS

After the initial commissioning period, the total maximum monthly emissions from the operation of the proposed equipment in conjunction with the use of air pollution control systems is not expected to exceed the following:

Pollutant	Maximum Monthly Emissions, (pounds per month)
Nitrogen Oxides (NOx)	1666
Carbon Monoxide (CO)	3,802
Volatile Organic Compounds (VOC)	586
Particulate Matter (diameter less than 10 microns) (PM10)	517
Particulate Matter (diameter less than 2.5 microns) (PM2.5)	517
Sulfur Dioxide (SOx)	189
Ammonia	128

As a result of the burning of natural gas in the boilers and diesel fuel from the emergency engines, emissions from the proposed project also contains some pollutants that are considered toxic under SCAQMD Rule 1401-New Source Review of Toxic Air Contaminants. Therefore, a health risk assessment was performed for this project. The health risk assessment uses health protective assumptions in estimating actual risk to an individual person. Even assuming this health protective condition, the evaluation shows that the Maximum Individual Cancer Risk (MICR) increase from each equipment is less than one-in-one-million and for the project is less than one-in-ten-million. Also, acute and chronic hazard indices (HIA and HIC, respectively), which measure non-cancer health impacts, are less than one. These levels of estimated risk are below the threshold limits of SCAQMD Rule 1401 (d) established for new or modified sources.

This facility is a new Federal Title V and Title IV (Acid Rain) facility. Pursuant to SCAQMD Title V Permits Rule 3006 – Public Participation, any person may request a proposed permit hearing on an application for an Initial Title V, a Permit Renewal or significant permit revision by filing with the Executive Officer a complete Hearing Request Form (Form 500G) for a proposed hearing within 15 days of the date of publication of this notice, as shown below. This form is available on the SCAQMD website at <http://www.aqmd.gov/permit/Formspdf/TitleV/AQMDForm500-G.pdf>, or alternatively, the form can be made available upon request by contacting Mr. Roy Olivares at the e-mail and telephone number listed below. On or before the date the request is filed, the person requesting a proposed permit hearing must also send by first class a copy of the request to the facility address and contact person listed above.

The proposed permit and other information are available for public review at the SCAQMD’s headquarters in Diamond Bar, and at the Lake Tamarisk Public Library, 43-880 Lake Tamarisk Drive, Desert Center, CA 92239. Additional information including the facility owner's compliance history submitted to the SCAQMD pursuant to Section 42336, or otherwise known to the SCAQMD, based on credible information, is available at the SCAQMD for public review by contacting Mr. Roy Olivares (rolivares@aqmd.gov) , Engineering and Compliance, South Coast Air Quality Management District, 21865 Copley Drive, Diamond Bar, CA 91765-4182, (909) 396-2208. A copy of the draft Permit to Construct, notice and evaluation can also be viewed at <http://www3.aqmd.gov/webappl/publicnotices2/> Anyone wishing to comment on the air quality elements of this permit must submit comments in writing to the SCAQMD at the above address, attention Mr. Andrew Y. Lee. **Comments must be received within 30 days of the distribution/publication date of this notice, as shown below.** If you are concerned primarily about zoning decisions and the process by which the facility has been sited in this location, please contact your local city or county planning department or the California Energy Commission at (916) 654-4640. For your general information, anyone experiencing air quality problems such as dust or odor can telephone in a complaint to the SCAQMD 24 hours a day by calling 1-800-CUT-SMOG (1-800-288-7664).