DOCKET

08-SPPE-1

DATE

FEB 27 2009

RECD. FEB 27 2009

RIVERSIDE ENERGY RESOURCE CENTER UNITS 3 & 4

Small Power Plant Exemption (08-SPPE-1) **Riverside County**

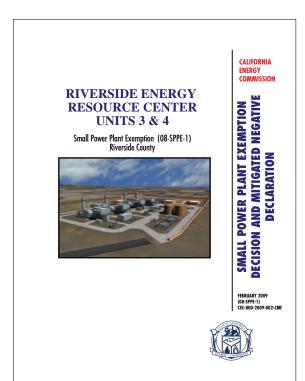


CALIFORNIA ENERGY COMMISSION

SMALL POWER PLANT EXEMPTION ECISION AND MITIGATED NEGATIVE DECISION AND MITIGALEY DECLARATION

FEBRUARY 2009 (08-SPPE-1) CEC-800-2009-002-CMF





CALIFORNIA ENERGY COMMISSION

1516 9th Street Sacramento, CA 95814 www.energy.ca.gov/sitingcases/riverside/index.html



KAREN DOUGLAS
Presiding Committee Member

JAMES D. BOYD Associate Committee Member

RAOUL RENAUD Hearing Officer

COMMISSIONERS

ARTHUR H. ROSENFELD *Commissioner*

JEFFREY BYRON Commissioner

JULIA LEVIN Commissioner



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA 1516 NINTH STREET, SACRAMENTO, CA 95814 1-800-822-6228 – WWW.ENERGY.CA.GOV

APPLICATION FOR SMALL POWER
PLANT EXEMPTION FOR THE
RIVERSIDE ENERGY RESOURCE CENTER
UNITS 3 & 4

Docket No. 08-SPPE-1

(ORDER No. 09-0225-06)

ADOPTION ORDER

The Small Power Plant Exemption for the **RIVERSIDE ENERGY RESOURCE CENTER UNITS 3 & 4** is **granted**. We adopt the Committee's Proposed Decision and Mitigated Negative Declaration for the **RIVERSIDE ENERGY RESOURCE CENTER UNITS 3 & 4**, and find that, as mitigated, no adverse impact on the environment or energy resources will result from the construction or operation of the project.

We direct Energy Commission staff to ensure that the Decision and Mitigated Negative Declaration is submitted for public and agency review as required by the pertinent portions of the Public Resources Code and implementing Guidelines, and take all other necessary and appropriate action to ensure that review, as required, is provided.

Dated February 25, 2009 in Sacramento, California.

Absent Original Signed By:

KAREN DOUGLAS JAMES D. BOYD

Chairman Vice Chair

Original Signed By: Absent

JEFFREY D. BYRON ARTHUR H. ROSENFELD

Commissioner Commissioner

Original Signed By:

JULIA LEVIN Commissioner

EXEMPTION DECISION

Application for a Small Power Plant Exemption (SPPE) Docket No. 08-SPPE-01

The California Energy Commission is the State agency granted exclusive authority to review and license proposals to construct and operate large electric power plants, including the authority to exempt proposals under 100 megawatts (MW) from our certification review. Proposals granted an exemption are subject to local permitting processes. On March 19, 2008, Riverside Public Utilities Department (RPU) filed a proposal to construct a 95 MW power plant project in Riverside, California.

All documents are available on the Commission's web page for this project at [www.energy.ca.gov/sitingcases/riverside].

A. Project Description

The proposed project is an expansion of an existing 96 MW peaking facility exempted by the Energy Commission in 2004, which began operation in June 2006. The two new units, RERC 3 & 4, would be located adjacent to the existing units. It will be constructed on 2.2 acres of the existing RERC property at 5950 Acorn Avenue. The site is owned by the City of Riverside and is located adjacent to the Riverside Regional Water Quality Control Plant (RRWQCP) in a light industrial/manufacturing area. Units 3 & 4 will be located immediately north of the existing plant and east of RRWQCP.

The proposed project would consist of two General Electric LM6000 PC SPRINT NxGen combustion turbine generators with Emission Control Modules (ECMs) equipped with inlet air chiller coils, exhaust ducting, flue gas treatment system, emission monitoring system, a common chiller package with cooling tower, and gas compressor equipment.

Two new bays will be added to the existing RERC switchyard and two demineralized water storage tanks to the existing make-up water system. Fin-fan

coolers would be used for lube oil cooling instead of relying on the cooling tower, which will result in a slight reduction of water usage.

The RERC Units 3 & 4 site, natural gas line, short transmission tie-in line, water pipeline, and stormwater control facilities are within the existing 16 acre RERC site.

Annual water usage is estimated at 24.394 million gallons per year based at 2,460 hours of operation or approximately 74.867 acre/feet of water annually. Potable water for sanitary use would come directly from the City's general water supply line approximately 60 feet from the southwest corner of the site located in Acorn Avenue.

The adjacent RRWQCP would supply tertiary-treated reclaimed water for plant process water. The project would utilize a Zero Liquid Discharge (ZLD) system that would eliminate the need to discharge process wastewater to the RRWQCP.

The RERC project would be equipped with Best Available Control Technology (BACT) to control air pollutant emissions. These controls include a water injection system to reduce the nitrogen oxide (NO $_x$) emissions from the CTG exhaust and a NO $_x$ Selective Catalytic Reduction (SCR) to reduce emissions to 2.3 parts per million volume dry (ppmvd) at full load. The SCR system uses aqueous ammonia as a reagent for an ammonia injection system and an oxidation catalyst to control CO emissions. In addition, there would be a continuous emission monitoring system for the exhaust stack.

RPU expects to begin construction of the project by the first quarter of 2009 and begin commercial operation of the first unit by the fourth quarter of 2009. Completion of the second unit would follow as soon as possible after the first unit is available for dispatch. RPU estimates the capital costs of the RERC to be \$110 million. RPU expects to employ up to approximately 100 construction workers at the peak of construction over the 9-month construction schedule. A permanent professional workforce of approximately 5 people would operate the plant. Construction payroll costs are estimated to be \$6.8 million.

B. Discussion

No areas have been identified in the Environmental Checklist portions of the Final Initial Study as having the potential for significant environmental impacts.

Highlights of the environmental analysis and mitigation are:

- To mitigate potential air quality impacts, the project will utilize Best Available Control Technology (BACT) and obtain emission offsets;
- To mitigate potential water resources impacts, the project will use recycled water for all non-potable plant construction and operation uses including cooling and landscape irrigation; and
- To mitigate potential noise impacts, the project will utilize appropriate noise mitigation measures and implement a noise complaint resolution process.

C. Findings and Conclusions

Based upon our independent judgment and the evidence of record as a whole, we make the following findings and reach the following conclusions:

- With the mitigation measures and Conditions of Exemption of the Final Initial Study, incorporated by reference, and compliance therewith verified by a reporting and monitoring program, the project will cause no unmitigated significant environmental impacts or adverse impact to energy resources.
- 2. The project is eligible for a Small Power Plant Exemption under Public Resources Code section 25541.
- 3. The Negative Declaration and Final Initial Study were prepared in compliance with the California Environmental Quality Act and all applicable State and Commission Guidelines.

We therefore conclude that the Riverside Energy Resources Center Units 3 & 4 project is eligible for an exemption from the Application for Certification provisions of the Commission's power plant licensing process.

Appendix A: Final Initial Study

Appendix B: Exhibit List

Appendix C: Proof of Service List



APPENDIX A

Final Initial Study

DOCKET

08-SPPE-1

DATE DEC 22 2008

RECD. DEC 22 2008

CALIFORNIA ENERGY COMMISSION

RIVERSIDE ENERGY RESOURCE CENTER UNITS 3 & 4

Small Power Plant Exemption (08-SPPE-1)
Proposed Mitigated Negative Declaration
Riverside County



F REPORT

DECEMBER 2008 (08-SPPE-1) CEC-700-2008-010-SE



PRODFOF SERVICE (NEVISER 11/12/08) FILED WITH ORIGINAL MAKED FROM SACRAMENTO ON 12/22/08

Please note file size: (PDF file, 302 pages, **7.2 megabytes**)

http://www.energy.ca.gov/2008 publications/CEC-700-2008-010/CEC-700-2008-010-SF.PDF



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APPLICATION FOR A SMALL POWER PLANT EXEMPTION FOR THE RIVERSIDE ENERGY RESOURCE CENTER Units 3 & 4

Docket No. 08-SPPE-1

FINAL EXHIBIT LIST

APPLICANT'S EXHIBITS

- **EXHIBIT 1** Application for a Small Power Plant Exemption Riverside Energy Resource Center Units 3 & 4:
 - a) Section 1 Executive Summary;
 - b) Section 2 Project and Facility Description;
 - c) Section 3 Energy Efficiency;
 - d) Section 4 Transmission Line Safety and Nuisance;
 - e) Section 5 Transmission System Engineering:
 - f) Section 6 Environmental Considerations.

Sponsored by Applicant, and received into evidence on January 5, 2009. (1/5/09 RT 4:13-14.)

- **EXHIBIT 2** Responses to CEC Data Requests 1-71. Sponsored by Applicant, and received into evidence on January 5, 2009. (1/5/09 RT 4:13-14.)
- EXHIBIT 3 Letter to Felicia Miller, CEC Project Manager, with RPU Planning Criteria, dated July 22, 2008. Sponsored by Applicant, and received into evidence on January 5, 2009. (1/5/09 RT 4:13-14)
- EXHIBIT 4 Sketches ECGSK-2 and ECGSK-3, duct banks, dated July 22, 2008. Sponsored by Applicant, and received into evidence on January 5, 2009. (1/5/09 RT 4:13-14.)
- Drawing depicting 69-kV network, dated July 22, 2008. Sponsored by Applicant, and received into evidence on January 5, 2009. (1/5/09 RT 4:13-14.)

- **EXHIBIT 6** RPU plans for future 69-kV Network Improvements, dated August 12, 2008. Sponsored by Applicant, and received into evidence on January 5, 2009. (1/5/09 RT 4:13-14.)
- **EXHIBIT 7** RPU letter describing transmission system, dated September 4, 2008. Sponsored by Applicant, and received into evidence on January 5, 2009. (1/5/09 RT 4:13-14.)
- **EXHIBIT 8** Prepared Direct Testimony and Exhibits dated December 16, 2008. Sponsored by Applicant, and received into evidence on January 5, 2009. (1/5/09 RT 10:13-14.)

ENERGY COMMISSION STAFF'S EXHIBITS

- EXHIBIT 200 Proposed Mitigated Negative Declaration and Final Initial Study for the Riverside energy Resource Center Units 3 & 4. All Technical Areas, dated December 22, 2008, docketed December 22, 2008. Sponsored by Staff, and received into evidence on January 5, 2009. (1/5/09 RT 6:6-7.)
- EXHIBIT 201 Proposed Conditions of Exemption, including changes since publication. Various Areas of Initial Study Requiring Mitigation, dated December 22, 2008, docketed December 22, 2008. Sponsored by Staff and received into evidence on January 5, 2009. (1/5/09 RT 6:6-7.)

<u>INTERVENOR ALLIANCE FOR A CLEANER TOMORROW (ACT) EXHIBITS</u>

None.



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA

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APPLICATION FOR SMALL POWER
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ENERGY RESOURCE CENTER
UNITS 3 & 4

Docket No. 08-SPPE-1

PROOF OF SERVICE

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INTERESTED AGENCIES

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INTERVENORS

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Deborah Dyer Staff Counsel ddyer@energy.state.ca.us

Public Adviser's Office publicadviser@energy.state.ca.us

DECLARATION OF SERVICE

I, attached	, declare that on , dated	, I served and . The origina	, I served and filed copies of the . The original document, filed	
with the Doo	cket Unit, is accompanied by a cop he web page for this project at:			
sent to both	gy.ca.gov/sitingcases/riverside_on the other parties in this proceeding commission's Docket Unit, in the fo	ng (as shown on the Pi		
(Check all t	that Apply)			
	FOR SERVICE TO ALL	OTHER PARTIES:		
sent el	ectronically to all email addresses	on the Proof of Service	list;	
	by personal delivery or by depositing in the United States mail at			
	first-class postage thereon fully pre f of Service list above to those add			
AND				
	FOR FILING WITH THE EN	ERGY COMMISSION:		
	ng an original paper copy and o ectively, to the address below (pret		ailed and emailed	
OR				
aepos	siting in the mail an original and 12	paper copies, as follow	/S:	
	CALIFORNIA ENERGY COMMIS Attn: Docket No. 08-SPPE-1 1516 Ninth Street, MS-4	SSION		
	Sacramento, CA 95814-5512			
	docket@energy.state.ca.us			
I declare un	der penalty of perjury that the foreg	joing is true and correc	t.	



BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA

1516 NINTH STREET, SACRAMENTO, CA 95814 1-800-822-6228 – www.energy.ca.gov

APPLICATION FOR SMALL POWER
PLANT EXEMPTION FOR THE RIVERSIDE
ENERGY RESOURCE CENTER
UNITS 3 & 4

Docket No. 08-SPPE-1

PROOF OF SERVICE Revised (2/17/09)

APPLICANT

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Susan Wilson Office of the City Attorney 3900 Main Street Riverside, CA 92522 swilson@riversideca.gov

APPLICANT'S CONSULTANT

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APPLICANT'S COUNSEL

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INTERESTED AGENCIES

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INTERVENORS

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Felicia Miller Project Manager fmiller@energy.state.ca.us

Deborah Dyer Staff Counsel ddyer@energy.state.ca.us

Public Adviser's Office publicadviser@energy.state.ca.us

DECLARATION OF SERVICE

I, <u>RoseMary Avalos</u>, declare that on <u>February 27, 2009</u>, I served and filed copies of the attached <u>Small Power Plant Exemption Decision and Mitigated Negative Declaration</u>, <u>dated February 27, 2009</u>. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:

[www.energy.ca.gov/sitingcases/riverside_expansion]. The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(Check all that Apply)

FOR SERVICE TO ALL OTHER PARTIES:			
<u>X</u> sent electronically to all email addresses on the Proof of Service list;			
by personal delivery or by depositing in the United States mail at <u>Sacramento</u> , <u>California</u> with first-class postage thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses NOT marked "email preferred."			
AND			
FOR FILING WITH THE ENERGY COMMISSION:			
x sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (<i>preferred method</i>);			
ORdepositing in the mail an original and 12 paper copies, as follows:			
CALIFORNIA ENERGY COMMISSION Attn: Docket No. <u>08-SPPE-1</u> 1516 Ninth Street, MS-4 Sacramento, CA 95814-5512			
docket@energy.state.ca.us			
I declare under penalty of perjury that the foregoing is true and correct.			

Original Signed By:
RoseMary Avalos