

DOCKETED

Docket Number:	82-AFC-02C
Project Title:	Kern River Cogeneration Application for Certification Compliance
TN #:	213033
Document Title:	Air Quality Condition of Certification Number 2 Pertaining to KCAPCD's Determination of Compliance
Description:	Commission Order 88-1102-3(b) Approving Modification of Gas Turbine Heat Input 11-2-1988 Rates
Filer:	Raquel Rodriguez
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	8/30/2016 11:27:02 AM
Docketed Date:	8/30/2016

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
S ANIMETO, CA 95814-5512

ORDER NO. 88-1102-3(b).



STATE OF CALIFORNIA

Energy Resources Conservation
and Development Commission

In the Matter of:)	Docket No. 82-AFC-2C
)	(P800-83-011)
)	Order Approving Amendments
Kern River Cogeneration Company's))	to Air Quality Condition
Kern River Cogeneration Project))	of Certification Number 2
)	pertaining to KCAPCD's
)	Determination of Compliance

Kern River Cogeneration Company (KRCC) has submitted requests to amend the California Energy Commission (CEC) Decision for the Kern River Cogeneration Project (Omar Hill facility). The changes involve Air Quality Condition of Certification No. 2.

Modification of Gas Turbine Heat Input Rates

Project Description A in the DOC indicates each gas turbine is rated at a maximum heat input rate of 825 million Btu/hr (MMBtu/hr). KRCC is requesting a change in the description to match KCAPCD Permit to Operate (PTO) operational condition 3, which states the maximum heat input rate shall not exceed 1,020 MMBtu/hr for each turbine, when fired on natural gas (KRCC is not requesting any increase in the allowable heat input rate for oil firing). The turbine rating of 825 MMBtu/hr is a "nominal" rating. KRCC is requesting that the condition be changed to reflect the maximum achievable heat input rate. KCAPCD requested additional testing of the turbines from KRCC to determine actual maximum heat input rates achievable and the corresponding emission rates. Test results showed compliance with all permitted gas-fired emission limits. This change was originally requested from KCAPCD on July 7, 1986. The changes were approved by KCAPCD on September 2, 1987.

Modification of DOC Operational Condition "e"

KRCC is requesting that operational condition "e" of the DOC be revised to read "Water injection shall be used as required to control NO_x emissions (as NO₂) at or below 140 lbm/day at all times.". In the event the combustion turbine generator (CTG) must be operated at minimum loads, the water injection must be turned off. If the water injection is left on it will result in high CO emissions from the CTG. This change was originally requested from KCAPCD on July 7, 1986. The approval was issued September 2, 1987 by KCAPCD.

STAFF RECOMEMNDATION

Staff concludes that the proposed amendments are noncontroversial in nature, and recommends Commission approval for the following reasons:

1. Staff analyzed the requests and concludes there would be no significant additional environmental impacts associated with approving the request;
2. Staff requested comments from all interested parties, and did not receive opposing comments from any interested party or agency;
3. The proposed change retains the intent of the Decision adopted by the Commission; and
4. The proposed change is based on information which was not reasonably or readily available to the parties prior to Commission certification.

CONCLUSION AND ORDER

The California Energy Commission hereby adopts Staff's recommendation and findings as its own, and Orders that the Kern River Cogeneration Project Decision, 82-AFC-2, Air Quality Condition of Certification No. 2 (specifically, the Kern County Air Pollution Control District's Determination of Compliance) be amended as follows:

Modification of Gas Turbine Heat Input Rates

DOC Project Description A as published in the CEC Decision P800-83-011 should be modified as follows:

(Note: bold type indicates change)

- A. Four natural gas or light oil fired General Electric, Model G7111E, combustion turbine generators (CTG's) each rated at 8.25 x 10⁸ Btu/hr nominal heat input rate (APCD No.'s 4128001-004).

Condition "m" should be added to the Operational Conditions as follows:

(Note: bold type indicates change)

- m. Turbine maximum heat input rate shall not exceed 1,020 MMBtu/hr when fired on natural gas and maximum fuel oil flow rate shall not exceed 150 bbl/hr when fired on fuel oil without prior District approval. (Rule 210.1)

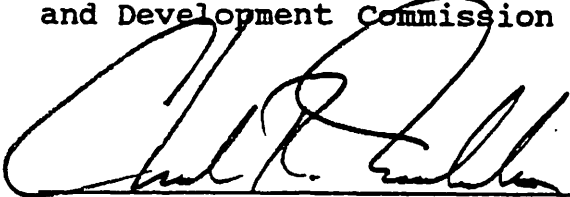
Modification of DOC Operational Condition "e"

DOC Operational Condition "e" should read:

- e. Water injection system shall be used as required to control NOx emissions at or below 140 lbm/hr at all times. (Rule 209)

Date: November 2, 1988

Energy Resources Conservation
and Development Commission



CHARLES R. IMBRECHT, Chairman

STATE OF CALIFORNIA

State Energy Resources
Conservation and Development Commission

In the Matter of:)

)
Amendment of the Application)
for Certification of the Kern)
River Cogeneration Company's)
KERN RIVER FIELD (OMAR HILL))
COGENERATION PROJECT)

) DOCKET NO. 82-AFC-2C
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)
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)
)

PROOF OF SERVICE

I, Lisa Barbero, declare that on Nov. 10, 1988 I deposited copies of the attached Order Approving Amendments to Air Quality Condition of Certification Number 2 pertaining to KCAPCO's → in the United States mail at Sacramento, California, with first class postage thereon fully prepaid and addressed to the following, with the exception of those at the Commission's headquarters which were delivered to the Commission Docket Unit, for their distribution.

APPLICANT

C. O. Myers
Executive Director
Kern River Cogeneration Co.
Box 80478
Bakersfield, CA 93388

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Texaco Producing Inc.
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Universal City, CA 91608

Alan M. Fenning, Esq.
Counsel
Mission Energy Co.
2222 Martin St., Suite 155
Irvine, CA 92715-1405

Hanna and Morton
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Cyntha L. Burch
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INTERESTED PARTIES

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Sacramento, CA 95814

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Sacramento, CA 95814

Michael Gardner
Southern California Edison
P.O. Box 800
Rosemead, CA 91770

Leon Herbertson, M.D.
Kern County Air Pollution
Control District
1601 H Street, Suite 250
Bakersfield, CA
Attn: Tom Paxson

CALIFORNIA ENERGY COMMISSION

Robert Mussetter, Commissioner
and Presiding Committee
Member
1516 Ninth Street, MS-32
Sacramento, CA 95814

Barbara Crowley, Vice Chair
and Committee Member
1516 Ninth Street, MS-34
Sacramento, CA 95814


Hearing Officer
1516 Ninth Street, MS-9
Sacramento, CA 95814

Public Adviser
1516 Ninth Street, MS-12
Sacramento, CA 95814

Sandra Fleischmann
Compliance Project Manager
1516 Ninth Street, MS-2000
Sacramento, CA 95814

Jeff Ogata
Staff Counsel
General Counsels Office
1516 Ninth Street, MS-14
Sacramento, CA 95814

I am and was at the time of the service of the attached
paper over the age of 18 and not a party to the proceeding. I
declare under penalty of perjury that the foregoing is true and
correct.



(name)

Attachment

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
SACRAMENTO, CA 95814-5512

DOCKET	
82-AFC-2C	November 8, 1988
DATE: NOV 8 1988	
RECD: NOV 10 1988	

Kern River
82-AFC-2C

Mr. C. O. Myers
Kern River Cogeneration Company
P.O. Box 80478
Bakersfield, CA 93388

**RE: KRCC AMENDMENT TO THE CEC DECISION, 82-AFC-2:
AIR QUALITY CONDITION OF CERTIFICATION NO. 2 - MODIFICATION
OF THE KERN COUNTY AIR POLLUTION CONTROL DISTRICT'S
DETERMINATION OF COMPLIANCE**

Dear Mr. Myers:

Attached you will find a copy of the California Energy Commission's (CEC) "Order Approving Amendments to Air Quality Condition of Certification Number 2 pertaining to KCAPCD's Determination of Compliance." This order approves the following requests from KRCC:

- o Modification of DOC Project Description A (Gas Turbine Heat Input Rates); and
- o Modification of DOC Operational Condition "e".

If you have any questions, please call me at (916) 323-8958.

Sincerely,

SANDRA FLEISCHMANN
Compliance Project Manager
Energy Facility Siting and
Environmental Protection Division

Enclosure

cc: M. Soares, KRCC
POS 82-AFC-2C

AMENDMENT INFORMATION RESPONSE FORM

RETURN TO: CALIFORNIA ENERGY COMMISSION
COMPLIANCE UNIT
1516 NINTH STREET, MS-2000
SACRAMENTO, CA 95814

Ken W. Bosley

NAME AND/OR TITLE (EXACTLY AS IT IS TO APPEAR ON MAIL LABEL)

P O Box 585, 14611 York Rd.

ORGANIZATION (IF APPLICABLE)

Sparks, Maryland 21152

STREET ADDRESS OR P.O. BOX

CITY

STATE

ZIP CODE

AMENDMENT TO CONDITION OF CERTIFICATION

Project: Kern River Cogeneration Project

Docket No: 82-AFC-2C

Condition(s)*:

1-2

*Please circle the condition numbers you are interested in if more than one appears.

AMENDMENT INFORMATION RESPONSE FORM

RETURN TO: CALIFORNIA ENERGY COMMISSION
COMPLIANCE UNIT
1516 NINTH STREET, MS-2000
SACRAMENTO, CA 95814

WILLIAM J. PIETRUCHA

NAME AND/OR TITLE (EXACTLY AS IT IS TO APPEAR ON MAIL LABEL)

ABB

ORGANIZATION (IF APPLICABLE)

4607 LAS LINDAS WAY

STREET ADDRESS OR P.O. BOX

CARMICHAEL,

CALIF

95608 .

CITY

STATE

ZIP CODE

AMENDMENT TO CONDITION OF CERTIFICATION

Project: Kern River Cogeneration Project

Docket No: 82-AFC-2C

Condition(s)*: 1-2

*Please circle the condition numbers you are interested in if more than one appears.

California Energy Commission
AGENDA INPUT FORM (GENERAL)

SUBMIT 2
TYPED COPIES

CEC 36 (Rev. 4/81)

MINIMUM DUE DATES (A listing of Commission Business Meetings and Executive Office due dates is available from the Secretariat.)	Date Due to Executive Office: October 12, 1988
	Proposed Business Meeting Date: November 2, 1988

AGENDA ITEM DESCRIPTION
(This description will be placed on the Notice and Agenda and mailed to the public.)

Description: (State the purpose clearly and briefly so anyone can understand the basic topic and action to be taken.)

COMMISSION APPROVAL of a request from the Kern River Cogeneration Company to amend the Kern River Cogeneration Project Decision (Docket No. 82-AFC-2), Air Quality Condition of Certification No. 2, to incorporate modifications of the Kern County Air Pollution Control Districts's Determination of Compliance.

Time needed for presentation: _____

Contact Person (Print or Type) SANDRA L. FLEISCHMANN	Telephone Number 3-8958
--	-----------------------------------

Specify audio-visual equipment required for presentation (Secretariat will make arrangements)

none

Approved by Division Chief (signature) <i>R. Stuchlik</i>	Approved by Executive Office (signature)
--	--

Date 10/18/88	<input checked="" type="checkbox"/> Consent <input type="checkbox"/> Discussion
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Attachments (see reverse)

EXECUTIVE DIRECTOR'S SUMMARY

KERN RIVER COGENERATION PROJECT

**PROPOSED AMENDMENTS TO CEC DECISION
(Docket 82-AFC-2)**

BUSINESS MEETING: November 2, 1988

AGENDA ITEM NO: ___ - Consent Calendar

DIVISION: Energy Facility Siting/Environmental Protection


CONTACT PERSON: Sandra Fleischmann, 3-8958

ACTION REQUESTED: Issuance of a Commission Order approving amendment of the Kern River Cogeneration Project Decision (Docket 82-AFC-2), Air Quality Condition of Certification No. 2 -specifically the Kern County Air Pollution Control District's (KCAPCD) Determination of Compliance (DOC).

BACKGROUND & JUSTIFICATION:

- o KCAPCD issued a DOC on June 14, 1983 for the Kern River Cogeneration Project. The DOC was appended to the CEC Decision under Air Quality Condition of Certification No. 2. KRCC has submitted requests to amend the DOC based on changes agreed upon by KCAPCD and KRCC. This agenda item covers two requests to amend the DOC, they are:
 - Modification of DOC Project Description A so the maximum heat input rate is 1,020 million Btu/hr for each turbine when fired on natural gas. KRCC requested a change in maximum heat input rates from 825 million Btu/hr (nominal) to 1,020 million But/hr (maximum). Preliminary testing at the higher rate indicated compliance with all permitted gas-fired emission limits.
 - Modification of Operational Condition "e" so that water injection is not mandatory but will be used only as required for NOx emissions at or below 140 lbm/hr at all times. If CTGs are operated at minimum loads, water injection will cause higher CO emission rates.
- o Staff analysis revealed that no significant additional adverse environmental impacts will result from these proposed amendments.

POTENTIAL ISSUES: None



ROBERT L. THERKELSEN,
Division Chief
October 17, 1988


Memorandum

To : Siting & Regulatory Procedures Committee
Robert Mussetter, Presiding Member
Barbara Crowley, Member

Date : October 17, 1988

Telephone: ATSS ()
()

From : California Energy Commission --
1516 Ninth Street
Sacramento 95814-5512


Robert L. Therkelsen, Chief
Energy Facility Siting and
Environmental Protection Division

Subject : ATTACHED ISSUE MEMO - KERN RIVER COGENERATION COMPANY, KERN RIVER
COGENERATION PROJECT, AMENDMENTS TO AIR QUALITY CONDITION OF
CERTIFICATION NO. 2

Attached for your information is a Staff Issue Memo regarding the modification of Air Quality Condition of Certification No. 2 for the Kern River Cogeneration Project Decision. We have submitted an agenda package to the Secretariat for Executive Office approval, requesting this item be placed on the November 2, 1988 Business Meeting Consent Calendar. We will notify you of any changes made to this package by the Executive Office.

Please let Sandra Fleischmann of my staff know by Monday, October 24, 1988 if you would like a briefing on this proposed amendment. If you do desire a briefing we recommend 2:00 p.m. on October 27, 1988.

attachment

Memorandum


Stephen Rhoads,
Executive Director

Date : October 17, 1988

Telephone: ATSS ()
()

Kern River
82-AFC-2C

From : California Energy Commission
1516 Ninth Street
Sacramento 95814-5512


- Robert L. Therkelsen, Chief
Energy Facility Siting &
Environmental Protection Division

Subject : KERN RIVER COGENERATION COMPANY, KERN RIVER COGENERATION PROJECT,
AMENDMENTS TO AIR QUALITY CONDITION OF CERTIFICATION NO. 2

COMMISSION ACTION REQUESTED

Staff concludes that the proposed modifications to the Commission Decision on the Kern River Cogeneration Company's (KRCC), Kern River Cogeneration Project (82-AFC-2), are noncontroversial, and the Commission should:

Consider staff's analysis and recommendation, and issue an order amending the Kern River Cogeneration Project, Decision 82-AFC-2 to include revisions to Air Quality Condition of Certification No. 2, pertaining to the Kern County Air Pollution Control District Determination of Compliance.

PROJECT MANAGER

The staff contact for this item is Sandra Fleischmann, Compliance Project Manager, at 3-8958.

SUMMARY

Kern River Cogeneration Company (KRCC) has submitted several requests to amend the California Energy Commission (CEC) Decision for the Kern River Cogeneration Project (Omar Hill facility). The changes involve Air Quality Condition of Certification No. 2. Listed below are summaries of two of the requests to amend submitted by KRCC.

Modification of Gas Turbine Heat Input Rates

Project Description A in the DOC indicates each gas turbine is rated at a maximum heat input rate of 825 million Btu/hr (MMBtu/hr). KRCC is requesting a change in the description to match KCAPCD Permit to

Stephen Rhoads
October 17, 1988
Page 2

Operate (PTO) operational condition 3, which states the maximum heat input rate shall not exceed 1,020 MMBtu/hr for each turbine, when fired on natural gas (KRCC is not requesting any increase in the allowable heat input rate for oil firing). The turbine rating of 825 MMBtu/hr is a "nominal" rating. KRCC is requesting that the condition be changed to reflect the maximum achievable heat input rate. KCAPCD requested additional testing of the turbines from KRCC to determine actual maximum heat input rates achievable and the corresponding emission rates. Test results showed compliance with all permitted gas-fired emission limits. This change was originally requested from KCAPCD on July 7, 1986. The changes were approved by KCAPCD on September 2, 1987.

Modification of DOC Operational Condition "e"

KRCC is requesting that operational condition "e" of the DOC be revised to read "Water injection shall be used as required to control NOx emissions (as NO₂) at or below 140 lbm/day at all times". In the event the combustion turbine generator (CTG) must be operated at minimum loads, the water injection must be turned off. If the water injection is left on it will result in high CO emissions from the CTG. This change was originally requested from KCAPCD on July 7, 1986. The approval was issued September 2, 1987 by KCAPCD.

ANALYSIS

On August 24, 1983, the CEC issued its Final Decision on the Kern River Cogeneration Project. Kern County Air Pollution Control District's Determination of Compliance (granted on June 14, 1983) was incorporated in the Final Decision under Air Quality Condition of Certification No. 2. Following are staff analyses of KRCC's proposed requests to amend the DOC.

Modification of Gas Turbine Heat Input Rates

Project Description A in the DOC indicates each gas turbine is rated at a maximum heat input rate of 825 million Btu/hr. On July 7, 1986 KRCC requested that KCAPCD change the DOC Project Description A to match KCAPCD Permit to Operate, Operational Condition 3. Operational Condition 3 states the maximum heat input rate shall not exceed 1,020 MMBtu/hr for each turbine when fired on natural gas. KCAPCD required testing of the turbines by KRCC to determine actual heat input rates achievable and corresponding emission rates. Results from the tests showed compliance with all permitted gas-fired emission limits. KCPACD approved the change on September 2, 1987. On July 26, 1988 KRCC filed a request to amend the CEC Decision to reflect the modification of the DOC Project Description A.

Stephen Rhoads
October 17, 1988
Page 3

CEC engineering and environmental staff reviewed the proposed modification and have concluded that there will be no significant additional adverse environmental impacts associated with approving the request.

Interested parties have been notified of KRCC's proposed modification and no comments have been received.

Based on CEC staff's analysis, the CEC Decision should be amended so DOC Project Description A modified as follows:

(Note: bold type indicates change)

- A. Four natural gas or light oil fired General Electric, Model G7111E, combustion turbine generators (CTG's) each rated at 8.25×10^8 Btu/hr nominal heat input (APCD No.'s 4128001-004).

Condition "m" should be added to the Operational Conditions to read as follows:

(Note: bold type indicates change)

- m. Turbine maximum heat input rate shall not exceed 1,020 MMBtu/hr when fired on natural gas and maximum fuel flow rate shall not exceed 150 bbl/hr when fueled on fuel oil without prior District approval. (Rule 210.1)

Modification of DOC Operational Condition "e"

Operational Condition "e" of the DOC originally stated "Water or steam injection system shall be used whenever CTG is operating". On July 7, 1986 KRCC requested KCAPCD change DOC Operational Condition "e" to read "Water injection shall be used as required to control NOx emissions at or below 140 lbm/hr at all times". The change was requested because in the event the CTG must be operated at minimum loads, the water injection must be turned off. If the water injection is left on, high emissions will result. KCAPCD approved this change on September 2, 1987. On July 26, 1988 KRCC filed a request to amend the CEC Decision to reflect the modification of DOC Operational Condition "e".

CEC engineering and environmental staff reviewed the proposed modification and determined that there will be no significant additional adverse environmental impacts associated with approving the request.

Interested parties were notified of KRCC's proposed modification and no comments were received.

Stephen Rhoads
October 17, 1988
Page 4

Based on CEC staff's analysis, the CEC Decision should be amended so DOC Operational Condition "e" reads as follows:

(Note: bold type indicates change)

- e. Water injection system shall be used **as required to control NOx emissions at or below 140 lbm/hr** at all times. (Rule 209)

CEQA REQUIREMENTS

The CEC's power plant NOI-AFC process is a California Environmental Quality Act (CEQA) "Certified Regulatory Program" as set out in Public Resources Code Section 21080.5. This means that the CEC's NOI-AFC process is the functional equivalent of the Environmental Impact Report (EIR) process.

In the CEC process, where the changes to the project affect or modify the Conditions of Certification, staff prepares an amendment, containing its analysis and findings, for Commission consideration. The amendment process also serves as the functional equivalent of the process to supplement and revise EIRs under CEQA.

Under CEQA, an additional document is not required unless substantial changes are proposed to the project which would require major revisions of the original CEQA document, or substantial changes occur in the circumstances under which the project is being undertaken. (See Public Resources Code section 21166; Title 14, California Code of Regulations sections 15162-15164.)

Staff concludes the proposed changes in this matter do not affect the original conclusions in the Decision, and therefore no subsequent or supplemental CEQA-equivalent document is required.

RECOMMENDATION

Staff concludes that the proposed amendments are noncontroversial in nature, and recommends Commission approval of both amendments for the following reasons:

1. Staff analyzed the requests and concludes there would be no significant additional environmental impacts associated with approving the request;
2. Staff requested comments from all interested parties, and did not receive opposing comments from any interested party or agency;
3. The proposed change retains the intent of the Decision adopted by the Commission; and

Stephen Rhoads
October 17, 1988
Page 5

4. The proposed change is based on information which was not reasonably or readily available to the parties prior to Commission certification.



ROBERT L. THERKELSEN, Chief
Energy Facility Siting and
Environmental Protection Division

April 7, 2004	Commission Order (04-0407-03) allowing for either cogeneration or simple-cycle operation of Units 3 and 4.	TN 31293
February 9, 2000	Commission Order (00-0209-05) approving modification to Air Quality Condition of Certification AQ-2 to remove the one-hour concentration emission limit for NOx.	TN 13823
July 29, 1998	Commission Order (98-0729-2) approving change in NOx Emissions Limit in AQ-18.	TN 9174
October 6, 1997	Staff Approved Project Modification letter approving addition of covered parking.	
February 1, 1995	Commission Order (95-0201-02a) approving modification of operating characteristics and exclude oil-fired backup.	
May 25, 1994	Staff Approved Project Modification letter approving addition of reverse osmosis unit.	
July 28, 1993	Commission Order (93-0728-03a) approval to add maintenance shop.	
May 24, 1989	Commission Order (89-0524-08a) approving clarification of shutdown of steam generators.	
November 02, 1988	Commission Order (88-1102-3b) approving modification of gas turbine heat input rates.	
October 19, 1988	Commission Order (88-1019-4b) approving modification of emission sampling limits.	
December 3, 1987	Commission Order (87-1202-02) Clarifying of Energy Commission jurisdiction over transmission tapline and substation.	

FOR QUESTIONS ABOUT THIS PROJECT, PLEASE CONTACT:

ENERGY COMMISSION COMPLIANCE PROJECT MANAGER

Mary Dyas
 Compliance Project Manager
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 California Energy Commission
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