

DOCKETED

Docket Number:	82-AFC-02C
Project Title:	Kern River Cogeneration Application for Certification Compliance
TN #:	212993
Document Title:	Notice of Post Certification Change to the Project Design Kern River Cogeneration Project 5/26/1994
Description:	Staff Approved Project Modification Letter Approving Addition of Reverse Osmosis Unit
Filer:	Raquel Rodriguez
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	8/26/2016 2:23:44 PM
Docketed Date:	8/26/2016

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET
SACRAMENTO, CA 95814-551282-AFC-2C
CALIF. ENERGY COMMISSION 

MAY 27 1994

RECEIVED IN DOCKETS

**NOTICE OF POST-CERTIFICATION CHANGE
TO THE PROJECT DESIGN
KERN RIVER COGENERATION PROJECT
82-AFC-2**

The purpose of this notice is to inform you that the Kern River Cogeneration Company (Kern River) has notified the Energy Commission (Commission) that it will make a project design change. Pursuant to Title 20, California Code of Regulations, Section 1769 Commission approval is not required if Commission staff determines that the change does not affect a condition, does not cause a significant effect on the environment, and does not cause the project to be out of compliance with any applicable laws, ordinances, regulations or standards.

Staff has made the determination required pursuant to section 1769. Any person may file an objection to staff's determination within 14 days of service of this notice on the grounds that the project design change does not meet the criteria set forth in section 1769. If no objection is filed, no further Commission action will be taken other than placing the project design change in the project file.

PROJECT DESIGN CHANGE

In the current project design, the power plant's demineralizer system uses caustic and sulfuric acid to purify water before it is used for control of oxides of nitrogen (NO_x). The demineralized water is necessary to prevent degradation and damage to the piping and the turbine blades.

In the design change, Kern River proposes to install a reverse osmosis unit (unit) ahead of the demineralizer system. The unit will pretreat the water by removing nearly all of the solids before it reaches the demineralizer. The demineralizer will be downstream from the unit and will give a finish cleaning or "polishing" to the water. The pretreatment will increase the useful life of the chemicals in the demineralizer and thereby lengthen the period between regeneration from once every 1.5 days to approximately once every 8 days. No increase in generating capacity is needed to operate the unit.

Installation of the unit should reduce caustic use by approximately 93%, from 1,103 to 79 tons per year, and sulfuric acid use by approximately 84%, from 1,508 to 246 tons per year. Annual diesel truck deliveries for caustic will be reduced by approximately 93%, from 89 to 7, and deliveries for sulfuric acid will be reduced by approximately 84%, from 61 to 10. In addition, there will be an increase in equipment life and a reduction in employee exposure to hazardous chemicals.



COORDINATION SHEET
CEC-23

**NOTICE OF POST-CERTIFICATION CHANGE
TO THE PROJECT DESIGN
KERN RIVER COGENERATION PROJECT
82-AFC-2**

The purpose of this notice is to inform you that the Kern River Cogeneration Company (Kern River) has notified the Energy Commission (Commission) that it will make a project design change. Pursuant to Title 20, California Code of Regulations, Section 1769 Commission approval is not required if Commission staff determines that the change does not affect a condition, does not cause a significant effect on the environment, and does not cause the project to be out of compliance with any applicable laws, ordinances, regulations or standards.

Staff has made the determination required pursuant to section 1769. Any person may file an objection to staff's determination within 14 days of service of this notice on the grounds that the project design change does not meet the criteria set forth in section 1769. If no objection is filed, no further Commission action will be taken other than placing the project design change in the project file.

PROJECT DESIGN CHANGE

In the current project design, the power plant's demineralizer system uses caustic and sulfuric acid to purify water before it is used for control of oxides of nitrogen (NO_x). The demineralized water is necessary to prevent degradation and damage to the piping and the turbine blades.

In the design change, Kern River proposes to install a reverse osmosis unit (unit) ahead of the demineralizer system. The unit will pretreat the water by removing nearly all of the solids before it reaches the demineralizer. The demineralizer will be downstream from the unit and will give a finish cleaning or "polishing" to the water. The pretreatment will increase the useful life of the chemicals in the demineralizer and thereby lengthen the period between regeneration from once every 1.5 days to approximately once every 8 days. No increase in generating capacity is needed to operate the unit.

Installation of the unit should reduce caustic use by approximately 93%, from 1,103 to 79 tons per year, and sulfuric acid use by approximately 84%, from 1,508 to 246 tons per year. Annual diesel truck deliveries for caustic will be reduced by approximately 93%, from 89 to 7, and deliveries for sulfuric acid will be reduced by approximately 84%, from 61 to 10. In addition, there will be an increase in equipment life and a reduction in employee exposure to hazardous chemicals.

NI. LAND

Originator:	Reviewed by:			Signed by: PAT 5/23/94 Mark Nelson
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COORDINATION SHEET
CEC-23

**NOTICE OF POST-CERTIFICATION CHANGE
TO THE PROJECT DESIGN
KERN RIVER COGENERATION PROJECT
82-AFC-2**

Kern

The purpose of this notice is to inform you that the Kern River Cogeneration Company (KRCC) has notified the Energy Commission that it will make a project design change. Pursuant to Title 20, California Code of Regulations, Section 1769 Commission approval is not required if Commission staff determines that the change does not affect a condition, does not cause a significant effect on the environment, and does not cause the project to be out of compliance with any applicable laws, ordinances, regulations or standards.

Staff has made the determination required pursuant to section 1769. Any person may file an objection to staff's determination within 14 days of service of this notice on the grounds that the project design change does not meet the criteria set forth in section 1769. If no objection is filed, no further Commission action will be taken other than placing the project design change in the project file.

PROJECT DESIGN CHANGE

In the current project design, the power plant's demineralizer system uses caustic and sulfuric acid to purify water before it is used for control of oxides of nitrogen (NO_x). The demineralized water is necessary to prevent degradation and damage to the piping and the turbine blades.

In the ^{unit} design change, ^{Kern} KRCC proposes to install a ^{Reverse Osmosis} Unit (ROU) ahead of the demineralizer system. The ROU ^{unit} will pretreat the water by removing nearly all of the solids before it reaches the demineralizer. The demineralizer will be downstream ^{from} for the ROU and will give a finish cleaning or "polishing" to the water. The pretreatment will increase the useful life of the chemicals in the demineralizer and thereby lengthen the period between regeneration from once every 1.5 days to approximately once every 8 days. No increase in generating capacity is needed to operate the ^{unit} ROU.

Installation of the ^{unit} ROU should reduce caustic use by approximately 93%, from 1,103 to 79 tons per year, and sulfuric acid use by approximately 84%, from 1,508 to 246 tons per year. Annual diesel truck deliveries for caustic will be reduced by approximately 93%, from 89 to 7, and deliveries for sulfuric acid will be reduced by approximately 84%, from 61 to 10. In addition, there will be an increase in equipment life and a reduction in employee exposure to hazardous chemicals.

Originator: *MADEIRA 7/15/20*

Reviewed by: *JOSE 5/20/99*

J. OQUITA
5/23/94

RBT 5-23-94
B. HAUSLER
STRAND

AA 5/23
J. WILSON

Signed by: *TRUDY KESNER*

PUBLIC NOTICE INFORMATION FORM

CEC 19 (Rev. 9/92)

Date Submitted 5/24/94

Notice Title (2) NOTICE OF POST-CERTIFICATION CHANGE TO THE PROJECT DESIGN FOR KERN RIVER COGENERATION (82-AFC-2C) AND SYCAMORE COGENERATION (84-AFC-6C)		
Staff Contact TERRY MADEROS	Phone 4-5191	Summary of workshop/meeting and items to be discussed (attach additional sheets, if necessary)
1. Division Chief	Date	
2. Publications. Any publications listed in the notice must be verified by the Publications Unit of availability. (1 Day)	Date	
3. Media & Public Communications/Secretariat (2 Days)	Date	
draft _____ final _____	Date	
4. General Counsel: (2 Days) <i>Jeffrey M. Magary</i>	Date 5/24/94	
5. Public Adviser (1 Day) <i>J.P. Bes</i>	Date 5/25/94	
6. Executive Office (1 Day)	Date	
7. Presiding Commissioner Approval (1 Day)	Date	
_____ Room	Date	

Meeting is being held by:

Full Commission
 Commission Committee
 Staff
 _____ (Other)

Describe any legal or Commission deadlines imposed.

Date(s) of meeting:

Location of meeting:

Start Time:	Finish Time:	Estimated Attendance:
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Court Reporter Required? ___ Yes ___ No Reimbursable Project ___ Yes ___ No Charge Code - - - - -	Mailing List(s) to which notice should be sent: 789 & 796
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Comments:

COMPLIANCE UNIT PROJECT CHANGE
TRANSMITTAL AND COORDINATION SHEET

C/M LOG #: 94-0011(F)
Project Name: Kern River Cogen
File #: 82-AFC-2
Date Logged: 04/20/94

A. SUMMARY

To: J. Oquada

Compliance PM: Terry Maderos DUE DATE: 05/04/94

AMENDMENT REQUEST: Change to the Project Design to allow the installation of a Reverse Osmosis Unit to work in conjunction with the power plant's water demineralizer system.

AFFECTED CONDITION(s): Project Design

Compliance Unit believes this is an: X Insignificant Change; OR a
 SIMPLE, NONCONTROVERSIAL, COMPLEX, CONTROVERSIAL Amendment.

SPECIAL INSTRUCTIONS: Please let me know by FRIDAY, 05/04, if you cannot make the due date. ALSO, This unit is leased for a 3-year trial program

B. TECHNICAL STAFF REVIEW:

Review the attached proposal, applicable condition(s) & check the appropriate box. Indicate if other conditions affected. Attach analysis per Compliance format or attach data request as necessary. Include all pertinent ROCs. If you need more review time, contact the CPM

- Agree with NO Significant Environment Impact
- Disagree with NO Significant Impact (ATTACH ANALYSIS)
- Additional Data Needed (ATTACH MEMO WITH DATA REQUESTS)
- Responsible/Delegate Agency Review Needed (ATTACH EXPLANATION/SCHEDULE)
- Does not Affect My Technical Area

Staff Comments/Action Looks OK

(Initial, Date and Return to Compliance Unit)

Tech Reviewer <u>J. Oquada</u> 4/27/94	Tech Senior <u>[Signature]</u>	OM <u>[Signature]</u>
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C. COMPLIANCE USE ONLY:

COMMENTS BY CPM: _____

(Approval for Close-out)

RETURN DATE <u>4/27/94</u>	CPM <u>[Signature]</u>	C/M UNIT SENIOR	CLOSED OUT <u>4/27/94</u>
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LONG TERM STORAGE	
LIST #:	_____
BOX #:	_____
OTHER (Describe):	_____

COMPLIANCE UNIT PROJECT CHANGE
TRANSMITTAL AND COORDINATION SHEET

C/M LOG #: 94-0011(E)
Project Name: Kern River Cogen
File #: 82-AFC-2
Date Logged: 04/20/94 *RJ 4/25/94*

A. SUMMARY

To: R. Johnson

Compliance PM: Terry Maderos DUE DATE: 05/04/94

AMENDMENT REQUEST: Change to the Project Design to allow the installation of a Reverse Osmosis Unit to work in conjunction with the power plant's water demineralizer system.

AFFECTED CONDITION(S): Project Design

Compliance Unit believes this is an: X Insignificant Change; OR a
 SIMPLE, NONCONTROVERSIAL, COMPLEX, CONTROVERSIAL Amendment.

SPECIAL INSTRUCTIONS: Please let me know by FRIDAY, 05/04, if you cannot make the due date. ALSO, This unit is leased for a 3-year trial program

B. TECHNICAL STAFF REVIEW:

Review the attached proposal, applicable condition(s) & check the appropriate box. Indicate if other conditions affected. Attach analysis per Compliance format or attach data request as necessary. Include all pertinent ROCs. If you need more review time, contact the CPM

- Agree with NO Significant Environment Impact
- Disagree with NO Significant Impact (ATTACH ANALYSIS)
- Additional Data Needed (ATTACH MEMO WITH DATA REQUESTS)
- Responsible/Delegate Agency Review Needed (ATTACH EXPLANATION/SCHEDULE)
- Does not Affect ~~My~~ *Socioeconomic Unit* Technical Areas

Staff Comments/Action _____

(Initial, Date and Return to Compliance Unit)

Tech Reviewer	Tech Senior <i>RJ 4/25/94</i>	OM <i>RBA 4/25/94</i>
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C. COMPLIANCE USE ONLY:

COMMENTS BY CPM: _____

(Approval for Close-out)

RETURN DATE	CPM	C/M UNIT SENIOR	CLOSED OUT
<i>4/25/94</i>	<i>TM</i>		

LONG TERM STORAGE LIST #: _____ BOX #: _____ OTHER (Describe): _____ _____

COMPLIANCE UNIT PROJECT CHANGE
TRANSMITTAL AND COORDINATION SHEET

C/M LOG #: 94-0011(D)
Project Name: Kern River Cogen
File #: 82-AFC-2
Date Logged: 04/20/94

A. SUMMARY

To: B. JULIAN

Compliance PM: Terry Maderos DUE DATE: 05/04/94

AMENDMENT REQUEST: Change to the Project Design to allow the installation of a Reverse Osmosis Unit to work in conjunction with the power plant's water demineralizer system.

AFFECTED CONDITION(s): Project Design

Compliance Unit believes this is an: X Insignificant Change; OR a
___ SIMPLE, ___ NONCONTROVERSIAL, ___ COMPLEX, ___ CONTROVERSIAL Amendment.

SPECIAL INSTRUCTIONS: Please let me know by FRIDAY, 05/04, if you cannot make the due date. ALSO, This unit is leased for a 3-year trial program

B. TECHNICAL STAFF REVIEW:

Review the attached proposal, applicable condition(s) & check the appropriate box. Indicate if other conditions affected. Attach analysis per Compliance format or attach data request as necessary. Include all pertinent ROCs. If you need more review time, contact the CPM

- Agree with NO Significant Environment Impact
- Disagree with NO Significant Impact (ATTACH ANALYSIS)
- Additional Data Needed (ATTACH MEMO WITH DATA REQUESTS)
- Responsible/Delegate Agency Review Needed (ATTACH EXPLANATION/SCHEDULE)
- Does not Affect My Technical Area

Staff Comments/Action RECOMMEND APPROVAL JB

(Initial, Date and Return to Compliance Unit)

Tech Reviewer H. Bal 4/21/94	Tech Senior H. Bal 4/21/94	OM RJ 4RLS 4/21/94
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C. COMPLIANCE USE ONLY:

COMMENTS BY CPM:

(Approval for Close-out)

RETURN DATE	CPM	C/M UNIT SENIOR	CLOSED OUT

LONG TERM STORAGE
LIST #: _____
BOX #: _____
OTHER (Describe): _____

COMPLIANCE UNIT PROJECT CHANGE
TRANSMITTAL AND COORDINATION SHEET

C/M LOG #: 94-0011(C)
Project Name: Kern River Cogen
File #: 82-AFC-2
Date Logged: 04/20/94

A. SUMMARY

To: T. Maderos

Compliance PM: Terry Maderos DUE DATE: 05/04/94

AMENDMENT REQUEST: Change to the Project Design to allow the installation of a Reverse Osmosis Unit to work in conjunction with the power plant's water demineralizer system.

AFFECTED CONDITION(s): Project Design

Compliance Unit believes this is an: X Insignificant Change; OR a
 SIMPLE, NONCONTROVERSIAL, COMPLEX, CONTROVERSIAL Amendment.

SPECIAL INSTRUCTIONS: Please let me know by FRIDAY, 05/04, if you cannot make the due date. ALSO, This unit is leased for a 3-year trial program

B. TECHNICAL STAFF REVIEW:

Review the attached proposal, applicable condition(s) & check the appropriate box. Indicate if other conditions affected. Attach analysis per Compliance format or attach data request as necessary. Include all pertinent ROCs. If you need more review time, contact the CPM

- Agree with NO Significant Environment Impact
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- Does not Affect My Technical Area

Staff Comments/Action _____

(Initial, Date and Return to Compliance Unit)

Tech Reviewer <i>Mringer</i> 4/26/94	Tech Senior <i>[Signature]</i>	OM <i>RBH</i> 4/28/94
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C. COMPLIANCE USE ONLY:

COMMENTS BY CPM: _____

(Approval for Close-out)

RETURN DATE <i>11/28/94</i>	CPM <i>[Signature]</i>	C/M UNIT SENIOR	CLOSED OUT <i>4/29/94</i>
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LONG TERM STORAGE
LIST #: _____
BOX #: _____
OTHER (Describe): _____

COMPLIANCE UNIT PROJECT CHANGE
TRANSMITTAL AND COORDINATION SHEET

C/M LOG #: 94-0011(B)
Project Name: Kern River Cogen
File #: 82-AFC-2
Date Logged: 04/20/94

A. SUMMARY

To: C. TOOLE

Compliance PM: Terry Maderos DUE DATE: 05/04/94

AMENDMENT REQUEST: Change to the Project Design to allow the installation of a Reverse Osmosis Unit to work in conjunction with the power plant's water demineralizer system.

AFFECTED CONDITION(s): Project Design

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SPECIAL INSTRUCTIONS: Please let me know by FRIDAY, 05/04, if you cannot make the due date. ALSO, This unit is leased for a 3-year trial program

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- Responsible/Delegate Agency Review Needed (ATTACH EXPLANATION/SCHEDULE)
- Does not Affect My Technical Area

Staff Comments/Action _____

(Initial, Date and Return to Compliance Unit)

Tech Reviewer <u>[Signature]</u> 4/25/94	Tech Senior <u>[Signature]</u> 4/25/94	OM <u>[Signature]</u> 4/25/94
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C. COMPLIANCE USE ONLY:

COMMENTS BY CPM: _____

(Approval for Close-out)

RETURN DATE <u>4/25/94</u>	CPM <u>[Signature]</u>	C/M UNIT SENIOR	CLOSED OUT
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LONG TERM STORAGE
LIST #: _____
BOX #: _____
OTHER (Describe): _____

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C/M LOG #: 94-0011()
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File #: 82-AFC-2
Date Logged: 04/20/94

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to: _____

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- Does not Affect My Technical Area

Staff Comments/Action _____

(Initial, Date and Return to Compliance Unit)

Tech Reviewer	Tech Senior	OM
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C. COMPLIANCE USE ONLY:

COMMENTS BY CPM: _____

(Approval for Close-out)

RETURN DATE	CPM	C/M UNIT SENIOR	CLOSED OUT

LONG TERM STORAGE LIST #: _____ BOX #: _____ OTHER (Describe): _____ _____
