

CALIFORNIA ENERGY COMMISSION
REPORT OF CONVERSATION Page 1 of 1



**Energy Facilities Siting and
 Environmental Protection
 Division**

FILE: 06-AFC-5

PROJECT TITLE: Panoche Energy Center

<input type="checkbox"/> Telephone	(740) 852-5266	<input type="checkbox"/> Meeting Location:	
NAME:	Terry LaPrise – Regional Sales Manager	DATE:	9/6/07
TIME:	11:00 AM	WITH:	Aquatech International Corp.
SUBJECT:	Pre-treatment alternative for Process Water Use of Upper Aquifer		

In a telephone discussion with Mr. Terry LaPrise – Regional Sales Manager of Aquatech International Corp., I obtained information to explore and establish an alternative water treatment approach to utilize groundwater that could be supplied from the semi-confined (upper) aquifer (Well MW-3). The applicant's water quality data (Table 3.2 of the 3/2/07 Technical Memorandum) and design criteria (AFC Table 5.5-8) served as the basis for developing the water treatment approach using common water treatment equipment. This information was provided to Mr. LaPrise in my email dated August 22, 2007.

Mr. LaPrise confirmed that there is a feasible alternative to lime softening using filtration technology. The conceptual alternative developed and recommended by Mr. LaPrise is summarized as follows:

Equipment	Purpose	Feed Flow Rate (gpm)	Product Flow Rate (gpm)	Cost
Scale Inhibitor Injection	Keeps CaCO ₃ (hardness) in solution so that it does not foul Ultra- and Nano-filtration membranes	2,400	2,400	Included
Ultrafiltration, Horizontal Pressure Filter	Removes suspended and larger dissolved solids > 0.01 micrometers	2,400	1,750	\$2,500,000
Nano-filtration	Reduces hardness, silica and other smaller dissolved solids (0.001 – 0.01 micrometers)	1,750	1,300	\$2,700,000
Membrane Cleaning Skid	For cleaning Ultra- and Nano-filters	Not Applicable	Not Applicable	Included
Controls & Misc.	Control & Monitor Process	Not Applicable	Not Applicable	Included
Total Equipment Cost				\$5,200,000

Mr. LaPrise has indicated that the water treatment approach he has identified is technically feasible using equipment that is commonly available, and is capable of operating intermittently as would be needed for a peaker power plant.

cc: CEC: James Reede, Dick Anderson Terry LaPrise – Aquatech International Corp. Dockets	Signed: <i>John S. Kessler</i>	DOCKET 06-AFC-5
	Name: John S. Kessler	

Panoche ROC with Aquatech – final (9-6-07)

PROOF OF SERVICE (REVISED 7/12/07) FILED WITH ORIGINAL MAILED FROM SACRAMENTO ON 9/20/07

DATE SEP 06 2007
 RECD. SEP 20 2007

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

APPLICATION FOR CERTIFICATION
FOR THE PANOCHÉ ENERGY
CENTER

Docket No. 06-AFC-5
PROOF OF SERVICE
(Revised 7/12/07)

INSTRUCTIONS: All parties shall 1) send an original signed document plus 12 copies OR 2) mail one original signed copy AND e-mail the document to the web address below, AND 3) all parties shall also send a printed OR electronic copy of the documents that shall include a proof of service declaration to each of the individuals on the proof of service:

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Attn: Docket No. 06-AFC-5
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DECLARATION OF SERVICE

I, April Esau, declare that on September 17, 2007, I deposited copies of the attached Report of Conversation in the United States mail at Sacramento, CA with first-class postage thereon fully prepaid and addressed to those identified on the Proof of Service list above.

OR

Transmission via electronic mail was consistent with the requirements of California Code of Regulations, title 20, sections 1209, 1209.5, and 1210. All electronic copies were sent to all those identified on the Proof of Service list above.

I declare under penalty of perjury that the foregoing is true and correct.



April Esau