

From: Naidu, Raj
Sent: 1/8/2010 12:16:04 PM
To: Michael.Hoover@sce.com (Michael.Hoover@sce.com)
Cc: Cherry, Brian K (/O=PG&E/OU=CORPORATE/CN=RECIPIENTS/CN=BKC7); Dietz, Sidney (/O=PG&E/OU=Corporate/cn=Recipients/cn=SBD4); Mike Hoover (hoovermr@sce.com); Stan Ferraro (sferraro@calwater.com); Kahlon, Raminder (RSK@cpuc.ca.gov); Tapawan-Conway, Zenaida G. (ZTC@cpuc.ca.gov)
Bcc:
Subject: RE: FW: OEEP Meeting and Dinner - Friday, January 15th - CWA Office and Holiday Inn Civic Center

Hi Mike,

Sorry for the delay in replying to your questions.

The OEEP software is based on the paper that I wrote and presented in a conference. I think the paper has been referenced in the PTM and also Commissioner John Bohn referenced it in the October 26th Commission meeting. Based on that, I feel that it will be very difficult for others to get the patent on this subject.

My recommendation to SCE was to develop the basic model algorithm and provide the algorithm (based on the differential equations) to the regulated water utilities to write the computer software language of their choice, which depends on the "Programmable Logic Controller" and "Variable Speed Drive" manufacturer. This actual computer software program will owned by the water utility and can be purchased by others, if they have same PLC & VSD hardware.

To the best my memory this was discussed with David Jacot and Don Arambula in one of the meetings at SCE office. Until now we have not been able to do it, with your help we may be able to achieve it.

The second choice is for each Water Utility to contract to a different system engineering consultant to write language, so that it can be repeated multiple times.

As this is **Research Development & Demonstration projects**, the choice belongs to electric IOU'S.

If you have any further questions, we can discuss this in a conference call with David Jacot.

Thanks for your help

Raj

From: Michael.Hoover@sce.com [mailto:Michael.Hoover@sce.com]
Sent: Thu 1/7/2010 3:31 PM
To: Naidu, Raj
Cc: Brian Cherry; Mike Hoover; Sidney Dietz; Stan Ferraro
Subject: Re: FW: OEEP Meeting and Dinner - Friday, January 15th - CWA Office and Holiday Inn Civic Center

Thanks Raj, I will not attend the dinner on the 15th.

By the way, do you have an answer to my question I sent you last week regarding the developer for the OEEP software? I would like to know a little more about the software for this type of application and if it is a proprietary solution. Is there just one provider or are we encouraging multiple vendors to participate in the pilot?

Thanks

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From: "Naidu, Raj" <rkn@cpuc.ca.gov>
To: "Brian Cherry" <bkc7@pge.com>
Cc: "Stan Ferraro" <sferraro@calwater.com>, "Sidney Dietz" <SBD4@pge.com>, "Mike Hoover" <hoovermr@sce.com>
Date: 01/07/2010 02:35 PM
Subject: FW: OEEP Meeting and Dinner - Friday, January 15th - CWA Office and Holiday Inn Civic Center

Hi Brian,

I understand Sid is on vacation, is it possible for you to attend or send other people from PG&E for January 15th meeting?

Also, on March 12, 2010, two of the Commissioners (Commissioner Dian Grueneich and Commissioner John Bohn) will be visiting San Jose Water Company to review the completed OEEP projects, please let me know if PG&E want to participate or at least attend. This will be similar to Alco Salinas meeting which took place on October 16, 2009, which PG&E was not able to attend. March 12th meeting will be similar to Alco Salinas meeting, which took place on October 16, 2009, which PG&E was not able to attend.

Thanks

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From: Jack Hawks [mailto:jhawks_cwa@comcast.net]

Sent: Thursday, January 07, 2010 2:11 PM

To: Kahlon, Raminder; Naidu, Raj; Walsh, Natalie; Tapawan-Conway, Zenaida G.; Haramati, Mikhail; Hardy, Katherine; Clinton, Jeanne; 'Sidney Dietz'; [Redacted] 'Don Arambula'; Michael.Hoover@sce.com; Laura.Kimes@sce.com; Paul.Thomas@sce.com; St. Marie, Stephen; Krannawitter, Laura L.; Fordyce, Jamie; Wales, Natalie; Nataloni, Pamela; Wong, Lester; brian.bruce@amwater.com; Stephen.Morrison@amwater.com; Dave.Stephenson@amwater.com; 'Neil Meyer'; 'Stan Ferraro'; 'Jan Kooy'; 'Tom F. Smegal'; wcedney@gswater.com; billmcdonald@gswater.com; 'Switzer, Keith'; 'George Belhumeur'; 'Tom Victorine'; palle_jensen@sjwater.com; tom@alcowater.com; 'Lawrence M. Morales'; 'Bob Fortino'; 'Bryan'; 'david morse'; 'Karp, Joseph M.'

Cc: robert.macleam@amwater.com; Kevin.Tilden@amwater.com; rkelly@suburbanwatersystems.com; gmilleman@valencia.com; [Redacted]

Subject: OEEP Meeting and Dinner - Friday, January 15th - CWA Office and Holiday Inn Civic Center All:

I am writing to follow up on Raj Naidu's earlier e-mails and to invite you to attend a two-part meeting and dinner next Friday, January 15th, beginning at California Water Association's office in Opera Plaza (601 Van Ness Ave., Suite 2047), with dinner at the Civic Center Holiday Inn. As you know, considerable progress has been made on the operational energy efficiency program (OEEP), and most, if not all, of the pump and motor projects will be operational by the end of January. I think all interested parties would be well-served if we convened for an

update and information exchange.

The business meeting, which will take place from 3:00 – 5:00 p.m., is designed to update the California PUC Energy and Water Division – as well as other Commission staff – on the progress that has been made with the water utilities’ OEEP projects. The dinner will follow at the Holiday Inn Civic Center (50 Eighth Street/415.626.6193 – a half block south of the intersection of Market, Grove and Hyde Streets, about 5 blocks from the PUC). Please let me know via an e-mail response by COB Monday whether you will be attending the business meeting, the dinner, or both.

Here is the agenda for the meeting:

3:00 – 3:15 Opening Remarks and Status of Petition for Modification of Decision 08-11-057
Jack Hawks/Dave Morse

3:15 – 4:45 Water Utility Briefings on OEEP Pump & Motor Projects/PRV Replacement-
Hydro
Turbine Projects/Planned Solar Applications/Other Projects (15 minutes each)
California American Water

Brian Bruce

California Water Service

Stan Ferraro

Golden State Water

Bill McDonald

San Jose Water

Tom Victorine

Alco Water Service

Tom Adcock

East Pasadena Water

Larry Morales

4:45 – 5:00 CPUC Remarks
Division of Water & Audits

Energy Division

Commissioner Advisors

5:00 – 7:00 Follow-up Discussions and Dinner – Holiday Inn Civic Center
All

I look forward to seeing you next week, and I’m looking forward to a constructive session.

Jack

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