

City of Roseville **Public Utilities Commission Meeting**June 28, 2011 7:00 pm

AGENDA

Council Chambers 311 Vernon Street Roseville, CA 95678

- 1. Roll Call
- 2. Pledge of Allegiance
- 3. Approval of the May 24, 2011 Minutes
- 4. Oral Communications/Public Comment
- 5. New Business
 - a. <u>Environmental Utilities Monthly Update</u>
 Report by Environmental Utilities Director Derrick Whitehead summarizing monthly status of EU issues, for information.
 - b. <u>Environmental Utilities Consumer Confidence Report</u> Presentation by Senior Engineer Cathy Lee summarizing the Water Utility Consumer Confidence Report, for information.
 - c. Roseville Electric Monthly Update

Report by Electric Utility Director, Michelle Bertolino summarizing monthly status of Electric issues, for information.

d. Electric Department 2011-12 Budget Overview

Presentations by Electric Utility Director Michelle Bertolino summarizing the Electric budget for fiscal year 2011-2012, for information.

e. Electric Department Capital Improvement Plan Overview

Presentation by Electric Engineering Manager, Scott Vaughan summarizing the Electric Department CIP's for 2011-2012, for information.

f. Electric Department Deep Well Injection Project Update

Presentation by Assistant Electric Utility Director, Dave Brown and Interim Power Plant Manager, Matt Garner on the status of the Deep Well Injection Project, for information.

- 6. Reports Commission/Staff
- 7. Adjournment



MINUTES Public Utilities Commission

May 24, 2011 7:00 p.m.

Council Chambers 311 Vernon Street Roseville, CA 95678

1. Roll Call

PUC Commissioners Present: Tom Barrington

Bruce Houdesheldt

Joe McCaslin Tom O'Meara Bruce Scheidt Jim Viele

PUC Commissioners Absent: None

Staff Present:

Ed Kriz, Water Utility Manager

Lisa Brown, EU Water Conservation Administrator

Kelye McKinney, EU Engineering Manager

Jim Mulligan, EU Principal Engineer Joseph Mandell, Deputy City Attorney

2. Pledge of Allegiance

3. Minutes of April 26, 2011

The minutes of April 26, 2011 were approved as submitted.

4. Oral Comments/Public Comment

There was no public comment.

5. New Business

a. Environmental Utilities Monthly Update

Report by Ed Kriz, Water Utility Manager summarizing monthly status of EU issues, for information.

b. 2010 Urban Water Management Plan

Presentation by Water Utility Manager, Ed Kriz and Water Conservation Administrator, Lisa Brown on the 2010 Urban Water Management Plan, for recommendation.

Ed Kriz, Water Utility Manager and Lisa Brown, Water Conservation Administrator presented to the commission.

Vice Chairman Viele recommended approval of the 2010 Urban Water Management Plan (UWMP) by City Council. Seconded by Commissioner Houdesheldt.

Ayes: Houdesheldt, McCaslin, O'Meara, Scheidt, Viele, Barrington

Noes: None Absent: None

6. Reports - Commission/Staff

None.

7. Adjournment

Commissioner Viele moved for adjournment of the May 24, 2011 Public Utilities Commission meeting. Commissioner Houdesheldt seconded the motion. The motion passed unanimously at 8:12 p.m.

Tom Barrington
Chairperson
Therese Keller

Recording Secretary



GENERAL INFORMATION MEMORANDUM

TO:

Chairman Barrington and the Members of the Roseville Public Utilities

Commission

FROM:

Michelle Bertolino, Electric Utility Director

PREPARED BY: Dave Brown, Assistant Utility Director – Distribution and Generation

DATE:

June 20, 2011

SUBJECT:

Deep Well Injection Study at the Roseville Energy Park – Status Update

PURPOSE

The purpose of this GIM is to update the Roseville Public Utilities Commission of the progress of the Deep Well Injection Study at the Roseville Energy Park.

SUMMARY

In October 2010, City Council approved Phase II of a Deep Well Injection Feasibility Study for a deep well injection system at the Roseville Energy Park (REP). At that time, Roseville Electric staff estimated that construction of a deep well injection system at the REP could save over \$2 million per year in operating costs and have a payback of less than 5 years (as compared to the existing Zero Liquid Discharge system being used at the REP).

In March 2011, staff determined that the recommended site for the injection well was located in a hydraulic area that might not meet the requirements for using deep well injection technology. Specifically, water salinity levels in the injection zone must meet Environmental Protection Agency (EPA) requirements. The prudent course of action was to sample water in the injection zone and gather additional data to positively confirm the water's salinity at the proposed location. On April 6, 2011, City Council approved increasing the scope of work for study and amending the contract to include a test well for confirming the quality of the water (and salinity levels) and geology in the injection zone.

Drilling of the test well began May 13, 2011. At a depth of approximately 500 feet, the drillers encountered unexpected and unusual formation geology. This geology did not allow for the continued use of the simple drilling methods. Other common drilling techniques were attempted, but were unsuccessful in resolving the issues associated with the geology. The engineering consultant recommended that the contractor install a steel casing around the drill bit passing through this area of geology. This could have resulted in delays and cost increases to the project, however, staff worked with the engineering consultant to reduce delays and potential cost increases (associated with utilization of a steel casing in the drilling process).

All test drilling operations were completed on June 12, 2011. A water sample was taken to confirm that the water quality meets EPA requirements for Deep Well Injection. Preliminary data evaluation from the test well confirms that the injection zone meets those requirements. The test well has been temporarily sealed until the EPA confirms whether they will require the well to remain open be used as a monitoring well or permanently sealed.

The engineering consultant will submit a final report of test well results this summer. The report will include the geologic profile, salinity test, water quality test results and a timetable for proceeding with EPA permit submittal, if the City decides to proceed to Phase III of the project.

Staff will provide the next Deep Well Injection project status report to the Roseville Public Utilities Commission and City Council by September, 2011, which will include a summary of the final engineer's report.