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December 2, 2014

MEMORANDUM

TO: Power committee members

FROM: Ben Kujala

SUBJECT: Regional Portfolio Model (RPM) Update

BACKGROUND:

Presenter: Ben Kujala

Summary Since the presentations at the last Power Committee meeting, there have been several accomplishments. The main work has been on generating the 750 futures and on the conservation logic. The project remains on track for a December 19th delivery of phase 2.

During the process of developing the model, there have been opportunities for enhancement to the previous RPM logic. Some of these enhancements have needed minimal effort and have already been included in the model. However, staff has identified two potential enhancements that will expand the Council's analytical capacity for the Seventh Power Plan, but are not within the scope of the current contract negotiated with Navigant.

These include:

- Distributing the computing across multiple computers (i.e., enabling "parallel processing") thereby significantly reduce model run-time.
- Adding in logic to the RPM to enable it to better evaluate regional capacity needs and improve the consistency between the Council's GENESYS model. This logic will also permit the RPM to value demand response resources based on the revised capacity requirements.

Staff recommends that the Council amend the contract with Navigant to include tasks to develop these two enhancements. Staff also recommends that additional budget be included in this amendment to provide for a limited number of potential additional enhancements that fall outside the functionality agreed upon in the current contract. This amendment requires that the enhanced functionality to be developed on the same time frame as the original contract so these features will be ready for use in the development of the Seventh Plan. Therefore, including the enhancement work and the corresponding not-to-exceed budget in the existing RPM contract will not impact the anticipated delivery date of the model.

Relevance The Regional Portfolio Model will be used to provide analytics for the Resource Strategy in the Seventh Power Plan.

Workplan: 1.E. Redevelopment of Regional Portfolio Model

Background: Navigant is redeveloping the Regional Portfolio Model for the Seventh Power Plan. The project is scheduled to be completed in three phases. The first phase is scheduled to be completed by October 1st, the second phase is scheduled to be completed by December 19th and the third phase is scheduled to be delivered to the Council by February 12th with Council acceptance and signoff is scheduled for March 13th. Council staff is supported on this project by contractors Doug Logan and Michael Schilmoeller.

More Info: Summary information and updates are available at <http://www.nwcouncil.org/energy/rpm/home/>.