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May 3, 2016

MEMORANDUM

TO: Power Committee

FROM: Charles Grist, Kevin Smit, and Massoud Jourabchi

SUBJECT: Proposal for FY 2016 contract work on industrial load and efficiency assessments

BACKGROUND:

Presenter: Charles Grist, Kevin Smit

Summary: Staff issued a Request for Proposals (RFP) for energy load and efficiency research on the industrial sector in the Pacific Northwest. The research will be used to improve annual load forecasting and to update baseline data for the Eighth Power Plan energy efficiency assessment.

Nineteen industrial segments (including pulp, paper, frozen food, lumber, refinery, cold storage, etc.) make up the majority of the Northwest industrial sector in the Seventh Power Plan. The RFP is seeking updated information on four components of each of the nineteen industry segments included in the Seventh Plan: 1) Industry description and detailed definition 2) estimate of total annual energy use, 3) disaggregated electric end-use, i.e. lighting, motors, and 4) energy efficiency and demand response information. The RFP is seeking experts to conduct the research and provide the most recent data for each industrial segment.

The RFP was released on April 15 and proposals are due today (May 3 2015). By Friday, May 6, Staff will provide the Council with an update of the proposals received and a recommendation on the contractor

selection(s). The Power Committee and full Council will have an opportunity to discuss at the May 2016 meeting and it is anticipated the Council will select the winning bid(s) at that time. Authorization from the Council to enter into a contract(s) with the winning bid(s) is also being requested at this time so that work can begin as soon as possible.

The work is to be completed by the end of fiscal year (September 31, 2016). Depending on the proposals received, the Council may choose to divide up the work between several contractors who have expertise in various segments of the industrial sector. The total amount of the combined contract(s) is not anticipated to exceed \$100,000.

Relevance: This new industry-specific assessments will provide important data for near-term load forecasting needs and will serve as the foundation for an updated Eighth Power Plan conservation assessment.

Workplan: C.1.1 Conservation Resources – Data development to enhance or improve estimates for conservation supply curves (8th Plan).
C.3.1 Forecasting and Economic Analysis – Improve Industrial Sales Data.

Background: The last fully updated Industrial energy efficiency assessment was completed in preparation of the Sixth Power Plan. For the Seventh Plan, staff relied on results from the Industrial Facility Site Assessment (IFSA) and numerous other sources to update and refresh the Sixth Plan industrial assessment. The load forecast also relies on the data from this industrial assessment. A variety of metrics and sources (e.g., employment data) are used to develop the end-use level load forecast for each industrial segment.