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January 3, 2018

MEMORANDUM

TO: Power Committee

FROM: Ben Kujala

SUBJECT: Options for the 8th Power Plan Analytics

BACKGROUND:

Presenter: Ben Kujala

Summary: Staff has been working on updating the tools that will be used in the analytics for the 8th Power Plan. The data that will be used and the methods for preparing these data are also being work on. In both the models and data, how much effort to direct toward analysis focused on Bonneville versus the region as a whole, and how to integrate these two views is challenging. In this discussion, staff is looking for guidance from the Power Committee on this and other potentially critical questions for the upcoming power plan to assist in directing work on these tools and data.

Relevance: The analytics will inform the power plan and regional action plan.

Workplan: C. Prepare for the 8th Plan

Options for the 8th Power Plan Analytics

General Analytical Requirement

- **Consideration** of conservation and generating resources
- Prioritize cost-effective resources
- Conservation and generating resource **development scheme**
- Include and consider the Fish and Wildlife Program

Specific Plan Elements

- Energy conservation program (including MCS)
- Demand forecast
- Resource development plan (resource strategy)
- Methodology for determining quantifiable environmental costs and benefits for cost-effectiveness
- Recommendation for an amount of power Bonneville should acquire
- Forecast of regional reserve and reliability requirement
- Analysis of cost effective methods for providing reserves
- Surcharge methodology (optional)
- Recommendations for research and development
- Fish & Wildlife Program (the final program is required to be included in the power plan)

Regional vs. Bonneville

Some elements can be done at a regional level, at a Bonneville level, or at both (E.g. the Seventh Plan includes a demand forecast for both the region and Bonneville)

- Energy conservation program
- Demand forecast
- Resource development plan (resource strategy)
- Forecast of regional reserve and reliability requirement
- Analysis of cost effective methods for providing reserves

Optionality

To maintain the option of being more specific, staff will need to:

- **Work on collecting or estimating data and parameters that differ for Bonneville vs. the region as a whole**
- **Setup Bonneville focused model runs for RPM and GENSYS, AURORA would most likely not need different inputs**