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November 30, 2009

## MEMORANDUM

**TO:** Power Committee

**FROM:** Terry Morlan

**SUBJECT:** Analysis Status for Sixth Power Plan

Staff will describe the status of the analysis for the revised Power Plan. We will provide some preliminary results for scenarios that have been completed in time for the meeting.

All of the major changes in assumptions and forecasts have been completed as of today. Revised wholesale electricity prices for input to the conservation supply assessment and Regional Portfolio Model (RPM) were completed last week. Over the weekend revised conservation supply curves were developed. Combined with revised generating resource costs, these complete the analysis prior to starting RPM analysis.

It will take a few days to prepare and check all of the inputs to the RPM, but we expect to be able to start on the \$0 to \$100 carbon risk run by the end of this week (December 4). If all goes well we should be able to describe the results of this scenario at the Council meeting. In all, we currently have 7 or 8 scenarios planned which will take us into late December. Many of the scenarios we plan to run will enable us to separate the effects of various factors such as renewable portfolio standards, carbon prices, and conservation on power system costs, prices, and carbon emissions. Scenarios include:

- A revised \$0 to \$100 carbon price risk scenario;
- A coal retirement scenario targeted to reach 35 MMtpy carbon emissions by 2030;
- A revised current policy scenario;
- A revised no policy scenario;
- A revised no RPS scenario;
- A no conservation scenario;
- A fixed CO<sub>2</sub> tax case targeted to reach 35 MMtpy carbon emissions by 2030; and
- A scenario with no conservation and no carbon policies