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January 6, 2015

MEMORANDUM

TO: Power Committee

FROM: Charlie Grist, Tina Jayaweera, Kevin Smit

SUBJECT: Seventh Plan Policy Issues for Conservation

BACKGROUND:

- Presenter: Charlie Grist
- Summary: Staff will summarize discussions held with the Conservation Resources Advisory Committee (CRAC), focusing on the policy issues which have garnered the most attention from the committee.

The CRAC has had seven meetings in preparation for the Seventh Power Plan, four of which occurred in 2014. Two more are scheduled in January. At each meeting, 40 to 50 people have attended, either in person or via webinar, representing a broad spectrum of stakeholders including program administrators, implementers, evaluators, and advocacy organizations.

There has been a high level of committee engagement on both policy and technical issues. These are reflected in the meeting minutes which are posted on the Council's webpage. The technical aspects of the analysis are also being posted for public review. In addition, BPA has a contract in place to perform a review of the supply curve workbooks and synthesize the information into a master workbook for ease of public consumption.

Policy issues on which the CRAC has spent considerable effort include:

- 1. Exceptions to use of the frozen efficiency baseline;
- 2. Treatment of residential lighting given the 2020 Energy Independence and Security Act (EISA) requirements;

- 3. Inclusion of behavior-based measures into the supply curve; and
- 4. Treatment of conservation in the Regional Portfolio Model (RPM)

CRAC members were in general agreement with staff's proposed approach on the first and fourth issues. For the second and third issues, CRAC has not reached a consensus opinion and for these. Both of these proposals will be discussed further at the CRAC webinar on January 16 or the CRAC meeting on January 28. The Council will make the final decision on all of these issues when it adopts the draft Plan for public review.

<u>Issue 1: Exceptions to Frozen Efficiency Baseline. Staff proposed that</u> the Seventh Plan analysis continue to use a frozen efficiency baseline except for cost and efficacy of solid-state lighting and data centers given the rapidly changing technologies. CRAC members were in general agreement with staff's proposed approach to these exceptions.

<u>Issue 2: Treatment of residential lighting given the 2020 Energy</u> <u>Independence and Security Act (EISA) requirements.</u> Staff is proposing to treat a portion of the potential from residential lighting programs, in the 2016-2019 time frame, similar to a limited-duration power purchase agreement, because the savings do not persist after 2020. After 2020, a new federal standard for general service light bulbs takes effect and thus captures a portion of the savings potential without need for utility programs. Post 2020 savings from the standard are already reflected in a lower Council's load forecast. The proposed approach to treat the nearterm savings as a limited-duration contract purchase available to the RPM sprang from concern of some CRAC members about ignoring potentially valuable savings between 2016 and 2019 in advance of the standards. Staff analyzed the near-term savings and found them to be low cost and potentially valuable as a short-term purchase. CRAC members will review this proposal January 16.

Issue 3: Inclusion of behavior-based measures into the supply curve. There is an underlying question of persistence from behavior-based measures and thus, whether the savings from such measures should be included in the supply curves as a power resource. There was a lively discussion of the issue at the CRAC with members expressing strong opinions on both sides of the question. Examples of behavior-based measures include: enhanced control of lighting, HVAC systems, and irrigation scheduling. There are currently several utility-sponsored programs designed to encourage the adoption and to quantify the impact of these types of measures, at varying levels of rigor. One of the chief areas of concern by CRAC members is the prescription of the programmatic approach to achieve savings. Staff's proposal is to include measures for which savings can be quantified, without prescribing a program delivery approach to attain these savings. The CRAC will review this approach January 16.

Issue 4; Treatment of conservation in the Regional Portfolio Model (RPM). Treatment of conservation in the RPM has been enhanced to better reflect conservation acquisitions over time, given future prices and conservation cost-effectiveness levels are uncertain. Savings from measures that are replaced on burnout multiple times within the 20-year planning horizon will be available to the RPM at the next turn-over opportunity if not acquired by RPM in earlier years. The likely impact from this change is a reduction in the market price premium for lost-opportunity measures compared to the Sixth Plan. A similar approach to annual availability will be used for retrofit measures. This will likely supersede the need for a 160 aMW annual maximum used in the Sixth Power Plan. CRAC members were in general agreement that this approach was an improvement over the prior Plan.

Next steps are to elicit feedback from CRAC on the second and third issues at the January 16 CRAC webinar. The following CRAC meeting on January 28 will be used to discuss any additional issues that arise prior to the completion of the draft supply curves in mid-February.

- Relevance: Decisions on policy issues will impact the total available potential for conservation over the Plan horizon and the resulting conservation targets in the Seventh Power Plan. Issues for which there is not general support of the CRAC may need to be decided by the Council.
- Workplan: 1D. Prepare for Seventh Power Plan and maintain analytical capability; update conservation supply curves.
- Background: During the December 2014 Power Committee meeting, staff discussed the issue of frozen efficiency within the context of the load forecast. The other issues have not been previously discussed with the Council for the Seventh Plan.
- More Info: CRAC meeting notes and comments from stakeholders are available on the CRAC webpage: <u>http://www.nwcouncil.org/energy/crac/home/</u>

















































