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January 4, 2007

MEMORANDUM

TO: Council Members

FROM: Terry Morlan

SUBJECT: Power Division Work Plan for 2007

I will provide an overview of the Power Division Work Plan for 2007. The format of the work plan is substantially the same as last year's, but the elements have been reorganized to better match the actual work activities of the staff instead of the Action Items from the Fifth Power Plan. More detailed information on the work plan and changes that were made is available in the Power Committee packet.

Major issues that the Power Division and Council will be involved in during 2007 are not new; they are related to implementing the Council's Fifth Power Plan. Here is a list those issues:

- Confirming the feasibility and cost of integrating large amounts of wind generation into the Northwest power system;
- Refining and implementing the resource adequacy standards adopted by the Council;
- Concluding and implementing the Regional Dialogue Policy through new power sales contracts between Bonneville and its customer utilities.
- Organizing and tracking regional efforts to acquire the cost-effective conservation identified in the Power Plan;
- Identifying and developing the demand response potential in the region;
- Providing analysis of the power implications of a new biological opinion; and
- Participating in regional and west-wide efforts to improve transmission planning and operations, including providing inputs to WECC reliability and adequacy measures and assessments.

In addition to working on these major issues, the work plan identifies many other Power Division activities that are of crucial importance to our ability to monitor the status of the regional power system, provide information and analysis to support implementation of the power plan, and to develop a revised power plan in the next few years. The one page attachment to this memorandum summarizes the 26 work plan elements in a highly condensed form.

Attachment

503-222-5161 800-452-5161 Fax: 503-820-2370

2007 Power Division Work Plan (January 2007)

PLAN IMPLEMENTATION

1. Coordinate Regional Conservation Activities

rs, state energy offices, efficiency industry, other
's, state energy office

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Quarterly meetings with regional	Quarterly Meeting.	Quarterly Meeting.	Quarterly Meeting
	coordination group. Identify	Expand participating members.		
	progress and gaps in			
	implementation. Prioritize and			
	develop and implement solutions.			
STATUS	Plan to meet in February to take			
	up issue of cooperative evaluation			
	of programs.			
COMMENTS	Ongoing. Formerly Action CNSV-3	: Develop a strategic plan for conserva	tion. Revised to be an ongoing assess	ment of progress and gaps and
	subsequent development of solution	s to fill those gaps.		

2. Revise & adopt state & federal energy codes and efficiency standards that capture all regionally cost-effective savings: (CNSV-6)

COUNCIL STAFF	OTHERS
Tom Eckman, Charlie Grist	Council, State and local code bodies, DOE, HUD, BPA, Utilities, SBC Administrators, and The Alliance

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	 Participate in federal standards 	Prepare energy savings and life	Participate in federal standards	Participate in federal standards
	rulemaking on 3-5 products	cycle cost analysis for proposed	rulemakings	rulemakings
	during the coming year.	revisions to Oregon residential		
	Ongoing Work with state code	energy code		

	agencies in code revision	Participate in Oregon code revision			
	cycles to adopt new codes	process			
	where warranted.				
STATUS	EPACT 2005 established standards for 15 products. These were issued October 18, 2005. EPACT 2005 also required that DOE promulgate new				
	standards for an additional 10 products. Several states and NRDC are suing DOE to require the agency to meet its statutory deadlines. In 2005 OR				
	and WA adopted efficiency standar	ds on 6 additional products not covered by the new federal law.			
COMMENTS	Ongoing: Some potential in all four states to modify building codes in 2007. Participation and timing will be issue dependent and dependent on				
	state schedules. Consider improvir	g commercial MCS based on finalized NEEA study on NWBest.			

3. Manage, Operate, and Secure Funding for the Regional Technical Forum

D. manage, eperate, and even er amanig	
COUNCIL STAFF	OTHERS
Tom Eckman, Charlie Grist	Council, BPA, Utilities, SBC Administrators, the Alliance, Regulators, the States

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	 Reconstitute the forum membership. Secure funding & implement funding mechanisms. 	 Revise ProCost Complete annual survey of regional conservation progress 	Suite of new and revised programs available to BPA customers by September	Develop work plan for FY08
STATUS	Secured three year funding sponsorship commitments for at least \$285,000/yr. Circulating draft work plan for review and comment. Selection process for new members completed.			
COMMENTS	conducting about 10 one-day meeti	ngs per year. Manage about a dozen p	resolving technical issues in conservatorojects including market and technical Includes Conservation Tracking (CNS)	research, and program evaluation.

4. Other Conservation Implementation Activities

COUNCIL STAFF	OTHERS
Tom Eckman, Charlie Grist	Council, BPA, Utilities, SBC Administrators, the Alliance, Regulators, the States

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	 White Paper on Achievable Penetration Rates Assess 5th Plan targets in light of biennial assessment Scope SBC Performance Paper 	RFP & Contract for SBC paper		Final report on SBC Performance
STATUS	Region appears to have achieved 5 th Plan's conservation target for 2005 and is well positioned to accomplish the 2006 target. BPA's actual conservation achievements in both 2005 and 2006 were below its share of target, but it met its savings goal by claiming savings carried over from prior years	Uncertainty concerning the resolution of issues in Regional Dialog constrained early participation in BPA's conservation CAA and CRC programs		
COMMENTS	implementation issues; Participate in issues important to implementation solution council conservation targets. Fundi	n regulatory forums on conservation tar such as achievable acquisition rates an	I-937; Work with regional utilities and SI gets, decoupling, and regulatory incention discounting for free riders; Assist utilitionservation efforts best done regionally tion monitoring MON-2.	ves; White papers on conservation es and Bonneville is reaching

5. Demand Response - cost-effectiveness methodology; cost and benefits of improved metering and communication technologies; exploring price mechanisms: DR-2; DR-4; DR-6; DR-8

COUNCIL STAFF	OTHERS
Ken Corum	Council, BPA, Utilities, Regulators

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Organizing meetings of Pacific	Work sessions of PNDRP	Conclusions and recommendations	Work on implementation of

	Northwest Demand Response		of PNDRP	PNDRP's recommendations
	Project (PNDRP)	Report on analysis	Continue to monitor Bonneville's	Continue to monitor Bonneville's
	Genesys analysis of costs avoided	Progress report on DR	work on non-wires alternatives to	work on non-wires alternatives to
	by demand response in a hydro-	Monitor development of DR	transmission construction	transmission construction
	dominated power system	(Ongoing)		
	Continue to monitor Bonneville's	Continue to monitor Bonneville's		
	work on non-wires alternatives to	work on non-wires alternatives to		
	transmission construction	transmission construction		
STATUS	As of 11/1/06, draft proposal for			
	PNDRP waiting for revision by			
	Regulatory Assistance Project			
	Staff is participating on a technical			
	advisory group for CA research on			
	DR. Also presenting our work at			
	national conferences on DR			
COMMENTS	•	il, BPA, state utility commissions, Regu	• • • • • • • • • • • • • • • • • • • •	•
	•	osed would address cost-effectiveness	, improved metering and price mechan	isms issues. Staff participating in
	CA efforts and national conferences			

6. Confirm wind development potential

· Committee distriction potential.		
COUNCIL STAFF	OTHERS	
King	Bonneville (Mainzer); Policy Steering Committee of Wind Integration Action Plan	

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Wind Integration action Plan	Establish proposed Northwest Wind		Complete highest priority (end-of-
	(WIAP) Technical Work Group	Integration Forum. Initiate work on		year 2007) actions.
	issue draft first phase report.	high priority actions (Some may be		
	WIAP Policy Steering Committee	Council lead actions).		
	approve first phase report and			
	proposed follow-on organization			

STATUS	Preparing draft Wind Integration Action Plan containing findings of the first phase of work and recommended follow-on actions (Dec 2006).
COMMENTS	Bonneville and the Council initiated the Wind Integration Action Plan (WIAP) in 2006 to identify actions needed to integrate anticipated near- and longer-term wind power development (Action GEN-8A). The WIAP first phase report, scheduled for adoption by the WIAP Policy Steering Committee in February 2007, will identify specific actions to support anticipated near-term wind power development and to maximize the economic and environmental value of wind power over the longer-term. The report is expected to include recommendations incorporating the relevant portions of Actions GEN-8, -9 and -10, TX-1 and -2, and GEN-16. The Action Plan recommends formation of a Northwest Wind Integration Forum to oversee implementation of the recommended actions, and the Council is expected to play a key role in the work of the Forum, much like the Northwest System Reliability Forum. In addition, the Council is expected to be the lead organization for several of the recommended actions.

7. Reassess the role of coal-fired generation in the Fifth Plan

. However the rest of the first generation in the rinks run.		
COUNCIL STAFF	OTHERS	
King		

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Prepare an assessment of the commercial status of advanced coal technologies suitable for Northwest applications, including supercritical steam-electric and gasification combined-cycle (Action GEN-7a).	Prepare a paper including background information on petroleum coke and a forecast of its availability through 2030.	Assemble cost, performance and other planning assumptions for "CO2-ready" IGCC and conventional coal plants. Complete a re-assessment of the timing, amount and technology of coal-based generation in the Fifth Plan.	
STATUS				
COMMENTS	Biennial Assessment findings indicate: (1) The accepted design availability of base load power generating technologies is higher than assumed in the Plan; (2) Spare gasifiers may need to be included in IGCC plants to accepted levels of plant availability, increasing costs above those assumed in the Plan; (3) Supercritical steam-electric technology has advanced more rapidly than anticipated; (4) IGCC efficiency may be less than anticipated in the Plan; (5) the capital cost of coal-fired power plants and other generating technologies has increased significantly since adoption of the Plan and (6) petroleum coke may be a feasible fuel for IGCC power generation in the Northwest. In view of these developments, staff has concluded that it is desirable to reassess the future role of coal-fired generation and specific coal technologies.			

8. Establish regional and West-wide reporting standards for the assessment of adequacy: ADQ-1

COUNCIL STAFF	OTHERS
Wally Gibson, John Fazio	Resource Adequacy Forum, WECC, NWPP, CREPC, BPA, regional utilities and regulators.

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Work with the PNUCC and the	Compare data received for 2007	Revise reporting standard, if	PNUCC sends out data requests
	Forum to develop a prototype data-reporting standard.	with the data-reporting standard.	necessary, based on the Forum's work on renewable resources and	for 2008 using the new data- reporting standard.
		Refine the reporting standard as	conservation (including demand	
		necessary.	response).	
		WECC LRS present revised RA	WECC PCC present revised RA	
		standards to Planning Coordination	standards to Board for approval,	
		Committee (PCC)	used in development of 2008 PSA	
STATUS				
COMMENTS	Continue working with WECC Load including reporting standards Ong	and Resources Subcommittee (LRS) to joing through year	improve Power Supply Assessment (F	SA) and related WECC reports,

9. Carry out a process to establish adequacy standards for NW: ADQ-2

COUNCIL STAFF	PARTICIPANTS
Wally Gibson, John Fazio	Resource Adequacy Forum, NWPP, BPA, regional utilities and regulators, WECC, CREPC

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Develop a benchmarking process	Review and, if necessary, revise the	Based on the second quarter work,	Develop a final Forum proposal

	for resource adequacy analysis. Update resource and load data required for analysis. Synchronize the GENESYS and HYDSIM (BPA) models. Develop alternatives for resource adequacy economic targets. Develop a guideline for individual utilities to interpret the regional standard for their own use.	definition of curtailment events used for LOLP analysis. Examine the relationship between cost and LOLP. Develop analysis to show that meeting the adequacy standard will not impact fish and wildlife operations. Perform a top-down assessment of the region's power supply and compare to PNUCC's bottom-up approach.	revise the energy and pilot capacity standards as necessary. Work with the WECC to make sure that the NW standard is consistent with WECC guidelines.	for resource adequacy standards and submit to the Council for public comment and vote. Prepare draft documentation to support the final proposal.
STATUS				
COMMENTS			I	

10. Plan for long-distance transmission needs to support the resource development called for in the plan: TX-1

COUNCIL STAFF	OTHERS
Gibson; King, Schilmoeller	Bonneville, other transmission providers, Power Pool; NTAC, WECC

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Develop and adopt TEPPC and TAS work plans. First WECC biennial plan targeted at Feb 08	Specific TEPPC/TAS milestones will follow from work plan	Specific TEPPC/TAS milestones will follow from work plan	Specific TEPPC/TAS milestones will follow from work plan
	ColumbiaGrid offers Planning and Expansion Functional Agreement			

	for signature.			
	Northern Tier Transmission Group (NTTG) proposes to assume regional planning duties for participants under expected FERC tariff revisions.			
STATUS				
COMMENTS	provides framework and larger geog	raphic scope studies for sub-regional p	ee's (TEPPC) Technical Advisory Comm lanning groups like NTAC, NTTG and C and potentially PGE and BCTC and con	ColumbiaGrid in the Northwest.

11. Transmission Providers Work to Improve Utilization of Available Transmission Capacity: TX-2

COUNCIL STAFF	OTHERS
Wally Gibson	Bonneville, other transmission providers, regional transmission customers, states

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	NTTG working to establish process to address ATC calculations on behalf of members			
	ColumbiaGrid has delayed addressing NW OASIS and ATC calculations (timing uncertain)			
STATUS				
COMMENTS	NTTG consists of PAC, Idaho, NWE ColumbiaGrid	, UAMPS, Deseret (latter two in Utah) a	and potentially PGE and BCTC and con	nplements systems represented by

12. Region agrees to and begins implementation of transmission solutions: TX-3

COUNCIL STAFF	OTHERS
Wally Gibson	Bonneville, other transmission providers, regional transmission customers, states, IPPs

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	ColumbiaGrid works with	ColumbiaGrid works with Bonneville		
	Bonneville to develop redispatch	to develop redispatch protocols for		
	protocols for Summer 07 operation	Summer 07 operation		
	Northern Tier Transmission Group (NTTG) working to establish regulation sharing program (will address some wind integration problems for members)			
STATUS				
COMMENTS	NTTG consists of PAC, Idaho, NWE ColumbiaGrid.	, UAMPS, Deseret (latter two in Utah) a	and potentially PGE and complements	systems represented by

13. Bonneville and Council review respective policies re implementing 6©: MON-9

COUNCIL STAFF	OTHERS
Legal Division	Council, Bonneville

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Initiate discussions with Bonneville after release of Regional Dialogue ROD	Bonneville and Council processes on 6c policy revision	Complete revised 6c policy	
STATUS				
COMMENTS				

14. Participate in Utility IRP Processes

COUNCIL STAFF	OTHERS
Assigned staff for each utility	

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Participate in WA CTED	Participate in CTED administrative	Summary report on IRPs	
	administrative rulemaking process	rulemaking process for HB1010 and	Participate in CTED administrative	
	for HB1010.	I-937	rulemaking process for HB1010 and	
	Ongoing participation in utility IRP		I-937	
	process and advisory groups.			
	Report on completed IRPs as they			
	become available. Compare plans			
	to Council's resource portfolio			
STATUS	Staff is working with utilities, PUCs			
	and ETO to help incorporate risk			
	measures into planning			
	Presented overview of Council IRP			
	process at WA CTED's initial			
22141471472	HD1010 workshop			
COMMENTS		is a key strategy for encouraging regio		
	implementation. (See action items GEN 1- 6 and CNSV – 8): Help implement new Washington IRP requirements (HB1010). Participate in conservation aspects of regional utility IRPs. Track assigned regional IRPs. Get utility IRPs to consider 5 th Plan findings on the cost and risk			
				ndings on the cost and risk
	benefits of conservation. Participate	e in BPA IRP if they do one for augment	tation or Tier 2 products.	

MONITORING AND ANALYSIS

15. Continued analysis of the CO2 production of the Northwest power system

10. Continued analysis of the CO2 production of the Northwest power system		
COUNCIL STAFF	OTHERS	
King		

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
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MILESTONES	Refine and extend the July 2006 forecast of the CO2 production of the Northwest power system, including the following cases: • Base • Low conservation • High renewables			
	No summer spillLower Snake R. dam breaching			
STATUS				
COMMENTS	Committee requested refinement of This work was subsequently deferre Plan (WIAP) project. The CO2 asset	rstem CO2 production was brought to the analysis and additional cases. The defor completion of the Biennial assessiessment will be resumed following releated to add the Lower Snake River dams to	Committee agreed to a plan of work pr ment of the Fifth Plan and the first phas se of the draft first phase WIAP report i	resented at its August meeting. se of the Wind Integration Action

16. Provide analysis and information about the plan and the regional energy system

OWNERS	OTHERS
All Staff	

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES				
STATUS				
COMMENTS	This is an ongoing activity that requi of different magnitudes and sensitiv	ires a substantial amount of staff time a ities.	nd resources. Council adopted a policy	for approval of analysis requests

17. Monitor Climate change science and policy: MON-4

	- y -
COUNCIL STAFF	OTHERS
John Fazio, Ken Corum	University of Washington Climate Impacts Group, BPA, EPA, Congress

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Monitor political actions regarding	Council staff white paper on Climate		
	emissions. Monitor research on	Change. Review and update the		
	climate change.	relationship between temperature		
		and loads, for modeling purposes.		
STATUS				
COMMENTS	This is an ongoing process. As new	information is received, it will be assess	l sed and reported to the Council.	
	The second condenses of the second se			

18. Monitor progress toward implementation of Council recommendations re Bonneville's Future role: MON-8

COUNCIL STAFF	OTHERS
Terry Morlan	

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Review and comment on	Comment on ROD? Follow progress	Ongoing - Bonneville developing	
	Bonneville Regional Dialogue ROD	in developing contracts and products	contracts for post 2011 to be signed	
			in October 2007	
STATUS				
COMMENTS				

19. Periodically report on load resource situation – Regular semi-annual reports: MON-1

,	
COUNCIL STAFF	OTHERS
John Fazio, Terry Morlan	BPA, PNUCC, other utilities

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Report on forecasted water	Assess the status of the power	Assess the power supply status for	Update load and resource data
	conditions and power supply status	supply 3 and 5 years out relative to	the upcoming winter.	for next year's analysis.
	through the end of summer.	the newly adopted energy and		
		capacity standards.	If necessary, based on the 3 and 5-	
			year assessment, take actions as	
		Compare the Council's top-down	outlined in the adequacy warning	
		assessment to PNUCC's bottom-up	implementation plan.	
		assessment and reconcile		
OTATUO		differences.		
STATUS				
COMMENTO	The Council registries a resummer			
COMMENTS	· ·	, , ,	summary of the water supply, loads, re	source development, imports and
	exports and other adequacy assessi	ments.		

20. Review data and forecasts underlying plan, recommend plan revision if necessary: MON-7

	uni, recommend plan revielen in necessary ment i
COUNCIL STAFF	OTHERS
Morlan lead with others	

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Biennial Monitoring Report - Jan.		Interim assessment of loads,	
	- '		resources, fuel prices etc.	
STATUS				
COMMENTS	Ongoing: Maintain data bases on lo	eads, fuel and power prices, and resource	ces. Requires ongoing collection and a	nalysis of data on demand, fuel
	prices, evolving technology for gene	ration and efficiency, hydroelectric capa	ability	•

PLANNING TOOLS AND DATA

21. New demand forecasting system (Long and short-term forecasts)

COUNCIL STAFF	OTHERS
Massoud Jourabchi	Demand Forecasting Advisory Committee, BPA staff

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Produce short-term hourly load	Complete test of long-term demand	Acquire long-term economic forecast	Initiate review of linkage of short-
	forecast for non-DSI.	forecasting system's structure.	Complete long-term model	term and long-term models with
	Produce report on application of	Complete documentation of short-	enhancements.	other models used in-house.
	short-term forecasting model for	term forecasting model		
	Resource Adequacy capacity	Update short-term model with 2004	Work with Demand Advisory group	If completed, present a
	standards and targets.	and 2006 load data*.	on long-term forecasting model	preliminary long-term forecast to
	Present short-term and long-term		assumptions.	Council.
	modeling methodologies to the			
	Advisory committee.		Produce preliminary forecast with	
	Present to Council forecast for		exogenous market prices.	
	summer of 2007-2010.		(2008-2028).	
	Map out and start long-term model		Present preliminary forecast to	
	enhancements.		Advisory committee.	
	Conservation & end use inputs for			
	2020 forecasting system			
STATUS				
COMMENTS	We will need help from NWPP on u	pdating model with 2003-2006 hourly d	ata.	

22. Development and documentation of Olivia/ Portfolio model

OWNERS	OTHERS
Michael Schilmoeller	

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Complete data editor interface and	Revise writing routines to	Evaluate and possibly implement	Utility training classes
	Council staff beta test	incorporate changes identified in	transmission flow model. Prepare	
		task list (3/8/03, rev. 02, 3/13/06)	class materials and help files	
STATUS				
COMMENTS	Work on Olivia has proven difficult to plan. Some of this is inherent in the work. Because our concepts – not to mention the computer			
	implementation – are original, there is no template for this work. We only know the problems we have run into to date. It seems impossible to			
	forecast when or how versions of the software on which we rely, Excel, Crystal Ball, etc., will change. Some of it, however, is inherent in the nature			
	of our work. More pressing studies and tasks displace development of this application. We will periodically communicate our progress.			

23. Maintain the AURORA^{xmp™} Market Price Forecasting Model and prepare periodic near-term forecasts

COUNCIL STAFF	OTHERS
King	

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Review recent AURORA releases	Prepare a near-term market price		
	(Versions 8.3 and 8.4); update	forecast using fuel prices from the		
	version if warranted.	EIA short-term energy outlook and		
	Review and update the AURORA	current water year conditions.		
	input data base as needed (Also			
	see "Maintain the power plant data			
	base").			
STATUS				
COMMENTS	The AURORA ^{xmpTM} Market Price Forecasting Model is used by the Council to prepare market price forecasts and for certain analyses of resource cost-effectiveness, system operations and environmental impacts. An annually-updated short-term market price forecast is used to assess the electricity price implications of current water year conditions and fuel prices and of possible near-term changes in system operations. The near-term price forecast would ideally be completed during the first quarter, but is shown as a second quarter item because of competing work items in the first quarter.			

24. Maintain and update data on electricity uses and conservation technologies

COUNCIL STAFF	OTHERS
Tom Eckman, Charlie Grist	

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Conservation & end use inputs for	Review new residential housing		
	2020 forecasting system	characterization survey		
		Review Energy Star new homes		
		lighting persistence research		
STATUS	Working with NEEA and larger			
	PNW utilities and ETO to secure			
	customer characteristics data			
COMMENTS	Ongoing. Includes: Compile new r	neasures lists; Develop new commercia	al prototypes for analysis; Convert 5 th P	lan Supply Curves to new ProCost
	model including off-line adjustments	; Fill out supply curves in \$60-\$80/MWh	n range; Investigate revising ProCost to	include Crystal Ball or other
	mechanism to assess alternate avoi	ded cost futures; Update ProCost input	s for T&D deferral benefit; Update EUIs	s from NEEA DEI study; Develop
	inputs to feed Energy 2020 forecast	ing system; Prepare to calibrate conser	vation supply curves and forecasting sy	ystem; Harvest NEEA New
	Building Baseline Characteristics da	ta;		

25. Maintain the power plant data base

COUNCIL STAFF	OTHERS
King	

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Post updated inventories of existing and proposed power plants. Update the GenRes input data file for the GENESYS model in support of reliability model benchmarking studies. Update the Resource input database of the AURORA model.	Post updated inventories of existing and proposed power plants. Review the GENRES input data file in support of the long-term system reliability assessment.	Post updated inventories of existing and proposed power plants. Review the GENRES input data file in support of the winter system reliability assessment.	Post updated inventories of existing and proposed power plants. Prepare assessment of progress toward Fifth Plan generating resource optioning and development targets (Action GEN-7)
STATUS	AGROTATIOGGI.			out,

COMMENTS	The Council maintains an inventory of existing and proposed power generation projects that is updated on a quarterly basis and posted to the
	Council's website. This inventory is used to develop the regional generating resource data files for GENESYS and AURORA models. In 2007 we
	plan to update the Generating Resource (GenRes) input data for GENESYS during the first quarter to support the benchmarking studies planned by
	the System Reliability Forum. We will review GenRes and update it as necessary to support the second quarter long-term reliability assessment and
	the third quarter winter reliability assessment. Though it is not certain that GENESYS will be the model selected for ongoing assessment of system
	reliability, a similar schedule of updates and reviews will be needed in future years for whatever model is selected for this application. We also will
	establish an annual schedule for updating the Northwest portion of the AURORA Resource input data file to support a first-quarter near-term price
	forecast and other studies.

26. Maintain and Improve Data for Fuel Price and Demand Forecasts

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COUNCIL STAFF	OTHERS	
Massoud Jourabchi, Terry Morlan, Ken Corum		

TIMELINE	1 st Quarter 2007	2 nd Quarter 2007	3 rd Quarter 2007	4 th Quarter 2007
MILESTONES	Maintain data bases on energy consumption, electricity and fuel prices, hourly temperatures, energy conservation, enduse inputs to the long-term and short-term forecasting systems.	Develop a revised fuel price forecast for natural gas, coal, and oil.	Present revised fuel price outlook to Council and post to web site.	
STATUS	Enhance database for short-term forecasting on hourly monthly, seasonal basis			

COMMENTS	Ongoing. Council staff maintains data bases to monitor and forecast electricity prices, fuel prices for natural gas, oil and coal. We maintain data
	bases on consumption of electricity and other fuels, as well as electricity loads at the generator. We also track commercial and residential floor
	stock. These data are inputs to forecasting models and analysis and they help monitor performance of the forecasts.

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