

Tom Karier
Chair
Washington

Frank L. Cassidy Jr.
"Larry"
Washington

Jim Kempton
Idaho

W. Bill Booth
Idaho



Joan M. Dukes
Vice-Chair
Oregon

Melinda S. Eden
Oregon

Bruce A. Measure
Montana

Rhonda Whiting
Montana

February 27, 2007

MEMORANDUM

TO: Power Committee

FROM: Terry Morlan

SUBJECT: Planning for Possible Power Committee Site Visits

Power Committee members have expressed an interest in arranging site visits to a number of energy facilities that hold potential for electrical generation alternatives in the Council's power plan. The suggested visits included the following:

- Genesee 3 - new supercritical coal-fired steam-electric plant near Edmonton, Alberta
- Alberta Oil Sands extraction and processing facilities - cogeneration of electricity, Ft McMurray, AB
- Great Plains Synfuels Plant - coal gasification (no power production) with CO₂ separation, Beulah, ND
- Weyburn-Midale CO₂ Project - enhanced oil recovery with CO₂ injection, Weyburn, SK (research project headquartered at University of Regina)
- Raft River Geothermal Project - binary cycle geothermal power plant (under construction), Cassia County, ID
- INEEL - advanced nuclear reactors, hydrogen cogeneration demonstration project (discussion, no projects as of yet), near Idaho Falls, ID

There was discussion that the Council might be able to schedule tours of these facilities around Council meetings in the vicinity. However, it seems that all of these sites are sufficiently remote from Council meeting locations that there may not be a large advantage to limiting visits to occur next to Council meeting.

It would probably make sense to combine some of these tours. The first two would fit together, as would the second two, and the last two. Each tour could require at least a few days counting travel.

Jeff King put together some initial information and possible contacts for these facilities. They are attached. The Power Committee will discuss how, and I hope whether, to pursue these site visits.

Attachment

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POSSIBLE 2007 SITE VISITS

Facility	Type	Location	Owner	Contact	Phone	e-mail	Notes
Genesee 3	Supercritical coal-fired steam-electric plant	Edmonton, AB (vicinity)	EPCOR Power Development	Mike Gibbs (Media Contact)	780-412-8877		Not contacted
Alberta Oil Sands	Syncrude and electric power production	Ft McMurrey, AB	Various	Bill Hosie (Transcanada - Northern Lights Transmission)	403-920-7338	bill.hosie@transcanada.com	Bill might suggest a representative facility and a contact
Great Plains Synfuels Plant	Coal gasification plant (synthetic natural gas) w/CO2 separation	Beulah, ND	Dakota Gasification Co.	Joan Dietz, Communications (Tours & plant information)	701-873-6667	jdietz@bepc.com	Not contacted
Weyburn-Midale CO2 Project	Enhanced oil recovery and CO2 injection	Weyburn, SK	En-Cana	Carolyn Preston, Project Integrator	780-987-8690	preston@nrcan.gc.ca	Preston is the IEA GHG research project integrator - possible initial contact for tour & briefing
Raft River Geothermal Project	13 MW binary cycle geothermal power plant	Cassia Co., ID	U.S. Geothermal	U.S. Geothermal 1509 Tyrell Lane, Suite B Boise, Idaho 83706	208-424-1027		Not contacted Excavation & foundation work & well testing phase

							underway. Target service Sept 2007
Briefing on INEEL nuclear energy mission and tour of facilities??	Research on Gen IV Nuclear Reactors; Hydrogen Co- generation Demonstration Project	Idaho Falls, ID	Idaho National Engineering and Environmental Laboratory (Lead Laboratory & Preferred Site)	Dr. Phillip Frink, Associate Laboratory Director for Nuclear Energy	208-526- 9447		