



SOUTH FEATHER WATER & POWER AGENCY

TO: Board of Directors

FROM: Kathy Zancanella, Power Division Manager

DATE: February 17, 2010

RE: General Information (regarding matters not scheduled on agenda)
2/23/10 Board of Directors Meeting

Operations

Attached is the Storage and Generation Report for January 2010. Also attached is a chart showing precipitation measured at the Forbestown office gauge. While the February snow survey showed above-average water content for this time of year, the Department of Water Resource's Bulletin 120 indicates that runoff expectations are currently 87% of average.

Maintenance Projects

Winter Outages

The Forbestown Powerhouse outage, which lasted February 1–12, went smoothly and the unit was released back to PG&E operations a couple of hours early. More sediment than usual was found when the cooling water pit was cleaned out; this was due to the movement of material from Forbestown Diversion impoundment through the tunnel after last year's dredging operation and cleaning of the intake. This was expected, and future sediment movement should be less. The runner showed some signs of minor pitting and when the powerhouse is shutdown for a longer period next year the crew will make repairs. The Sly Creek annual outage will start on March 1.

Forbestown TSV

The turbine shutoff valve (TSV) at Forbestown powerhouse developed severe leakage over time and PG&E agreed it should be replaced. The replacement project was originally planned for completion this year, but delays in engineering and production of the valve and its controller meant that the valve would not arrive in the US until April or May, too late to install before the summer, as the powerhouse will need to be shut down for six weeks to complete the installation. Therefore, PG&E agreed with us that this work will be deferred until January/February 2011. The valve is being built in Germany, and the factory reps have supplied photos of the progress. Factory testing of the valve will be done the week of March 22, and we



are discussing with PG&E whether someone from South Feather should go to observe the testing and learn about operation and maintenance of the valve before it is shipped and installed next year.

Sly Creek Dam Crest Modification Project

The crest modification project has generated quite a bit of interest among California construction companies and fifteen firms have signed Non-disclosure Agreements in order to

receive the bid package. A pre-bid meeting was held on February 12 and was very well attended, with many firms bringing two or three representatives. After meeting at the Oroville office, the group traveled to the dam to ask further questions on-site.

The bid-due date is February 26. A Special Board Meeting will need to be held for approval of the contract award. *At this time, please plan to attend a Special Board Meeting on Monday, March 8 at 2 pm.*

After award of the contract, the next activity will be a Potential Failure Modes Analysis session and development of a Temporary Construction Emergency Action Plan. This will take place on March 11 and will include the Independent Consultant, Facilitator, FERC, DSOD, AECOM and a representative of the selected contractor.

Communications Projects

Brian Howerton and Art Martinez will be involved in a number of significant projects this year as several aspects of the Power Division communications and information systems will be upgraded. Two projects were kicked-off the week of February 8.

Consultant Mark Heggli met with staff February 9 to review the plans for gauging station upgrades to the GOES satellite system. The necessary equipment has been identified and will be ordered in early March, and installation will begin at the beginning of July, with a projected completion date of October 1.

PG&E's microwave project team met with staff February 11 to kick off the engineering for the replacement of the four powerhouse microwave paths. These paths are being converted from analog to digital equipment.

Art and Brian are also working on installing a phone system with recording capability and installing a data processing gateway that will allow direct communication between the powerhouse meters and the ISO. Once the other work is done, Brian will be working with PG&E consultants to switch the SCADA system to a new software platform.

Miners Ranch Canal Access Road

Cotton Shires and Associates produced a project scope proposal for the second phase of work associated with repairs to the Miners Ranch Canal Access Road and Station 6 Sand Trap. In Phase 2, they propose large diameter exploratory borings to aid in interpretation of subsurface conditions and preparation of a Geotechnical Design Parameters Report. They will then develop the civil design drawings for the proposed repairs and produce specifications suitable for bid, permitting and construction purposes. Their original cost for this Phase 2 work was \$117,500; but after further discussions, the cost was reduced to \$100,000. You previously authorized Mr. Glaze to approve this subsequent phase of work, which he has done.

General Information

WECC

The Western Electricity Coordinating Council, of which the Agency is a member, held a semi-annual Compliance User Group meeting in Salt Lake City February 2 - 4, which I attended. This particular compliance organization only formalized mandatory compliance standards in 2007, and many of these standards are continuing to evolve through member input and feedback from the FERC. While many of the standards discussed at the meeting applied to electric transmission and distribution operating and control entities, there are enough standards applicable to generator owners and operators that I need to be vigilant in keeping up with the changes. The WECC has been granted authority by FERC to conduct audits and levy fines for non-compliance with the standards.

Climate Registry

The Agency has joined The Climate Registry, meeting another condition in the new PG&E contract. This means that beginning with 2010, emissions associated with power generation must be reported. While hydropower is generally considered a non-emitting form of energy, emissions associated with the fleet and other equipment will be tracked and reported by Scott Alcantara.

**SOUTH FEATHER WATER AND POWER
SOUTH FEATHER POWER PROJECT
January 2010
STORAGE**

RESERVOIR	MAXIMUM CAPACITY	STORAGE ON 1-31-10	STORAGE ON 1-31-09
Little Grass Valley	89,804 AF	42,702 AF	36,800 AF
Sly Creek	64,338 AF	17,442 AF	17,952 AF
Lost Creek	5,361 AF	4,128 AF	4,636 AF
Forbestown Diversion	352 AF	311 AF	317 AF
Ponderosa	4,178 AF	3,509 AF	3,307 AF
Miners Ranch	896 AF	677 AF	634 AF
TOTAL	164,929 AF	68,769 AF	63,646 AF
Slate Creek Tunnel	800 CFS	94 CFS	84 CFS
South Fork Tunnel	600 CFS	45 CFS	38 CFS
Miners Ranch Canal	303 CFS	76 CFS	100 CFS

MONTHLY NET GENERATION

	FOR January 2010	YEAR TO DATE ON 1-31-10	YEAR TO DATE ON 1-31-09
Woodleaf P.H.	7,279,080 KWH	7,279,080 KWH	4,691,260 KWH
Forbestown P.H.	4,883,790 KWH	4,883,790 KWH	2,113,700 KWH
Kelly Ridge P.H.	5,194,348 KWH	5,194,348 KWH	3,414,864 KWH
Sly Creek P.H.	434,700 KWH	434,700 KWH	395,800 KWH
TOTAL	17,791,918 KWH	17,791,918 KWH	10,615,624 KWH

South Feather Power Project - Forbestown Precipitation

