



SOUTH FEATHER WATER & POWER AGENCY

TO: Board of Directors

FROM: Kathy Petersen, Power Division Manager

DATE: February 21, 2007

RE: General Information (regarding matters not scheduled on agenda)
2/27/07 Board of Directors Meeting

Operations

Attached for your information is the Storage and Generation Report for January 2007. Also attached is a chart showing the precipitation accumulated through February 20. Based on the February 1 snow surveys, the Department of Water Resources is currently forecasting that the April-July unimpaired runoff will be 41% of average for the South Fork Feather River, and 45% of average for the entire Feather River drainage.

Following the second driest January since we began keeping records at Forbestown, we received 10.25 inches of rain over the four-day period February 8 – 11. With additional rain and snow coming, we still may have a chance to catch back up to “average” annual rainfall.

Slate Creek Sediment Pass-Through

We first planned to conduct a Slate Creek sediment pass-through (SPT) on Friday morning, February 9, but overnight the flows had increased from around 200 cfs to over 900 cfs, which would be too much to create a good scour. Over the weekend the flows increased to about 2,000 cfs, but by Monday had dropped back to 700 cfs. We alerted Stillwater Sciences that we wanted to conduct the SPT, and they notified the State Water Resources Control Board and sent two water quality staff up to collect samples.

Because we couldn't begin the SPT until after the first set of samples were collected, we didn't start until 2:15 pm. However, everything worked well, and

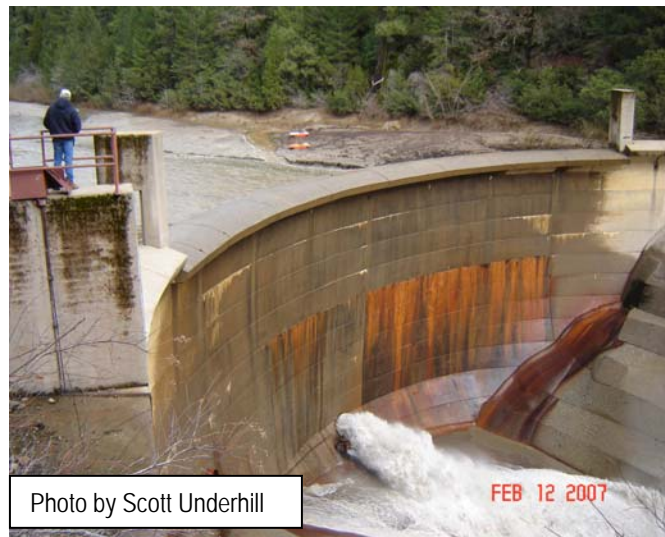


Photo by Scott Underhill

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we stopped the SPT after an hour so that the water sampling would not have to continue after dark. With the flows at 700 cfs we saw significant cutting of the banks upstream of the reservoir outlet valve, so we know that this process will work. Mike Glaze videoed the process and will be sharing that at the Board meeting.

We will continue to watch the weather for patterns that will provide us the correct hydrologic conditions, and will try to have the Stillwater team up at Forbestown the night before we conduct an SPT event, so that we can run for a longer period of time. We would like to conduct a few more events before the end of March.

Maintenance Projects

Forbestown Ditch Outlet Valve

Henry Reeson, Dorinda Matney, and Marty Costa have been working on the Howell-Bunger valve that releases water from the Woodleaf penstock to the Forbestown Ditch. The valve was not operating properly, and on tearing it down they found the gear mechanism had become wet and worn down. Henry coordinated the re-machining of the parts and the valve will be back in service the next time that YCWD needs water in the Forbestown Ditch.

Kelly Ridge Powerhouse Wall



A Water Division crew rebuilt the downstream wall of the Kelly Ridge Powerhouse yard, after it had been undermined by water releases from Oroville Dam and the powerhouse, and had begun to lean outward. FERC had noted this on last year's inspection, and was satisfied to see the work underway when they visited the powerhouse last week.

General Information

New Equipment

The new John Deere grader arrived at Power Division on January 24, replacing the Champion grader that had aged beyond reasonable repair, including the loss of a wheel last year. John Davis and Joe Gibson chose a piece of equipment with a tighter turning radius and narrower blade than the old grader because it will work better on the mountain roads we maintain.



Potential Failure Modes Analyses – Miners Ranch and Ponderosa Dams

The FERC-required potential failure modes analyses for Miners Ranch and Ponderosa dams were conducted February 5-8. Participants in the field review, document review and round-table sessions included representatives from FERC and DSOD; along with Richard Harlan, Rick Harlan and Wayne Edwards, the consulting and facilitation team; Alex Brown, John Davis, Scott Underhill, and myself. Denny Lewis, Steve Owsley, and Guy Mastelotto also joined us for the roundtable discussions of failure modes, as did Paul Terrell, who was the Bechtel field engineer during original construction of the project. I will be happy to describe for you the results of the sessions, but do not want to put the information in this report (a public document), as FERC has designated this type of material as protected under the Critical Energy Infrastructure Information rules.

2007 PG&E-Approved Budget

On January 24, PG&E notified us that Power Division's 2007 budget request was approved, although the amount approved for the South Fork Project was slightly different from that which the Board approved at your October 2006 meeting. The Board approved a budget of \$6,999,000; PG&E approved a budget of \$7,129,000. The \$130,000 difference came from PG&E adding \$100,000 to the budget for design, engineering and permits for the Sly Creek and Lost Creek PMF (probable maximum flood) dam crest modifications; and \$30,000 for permits to remove the sediment pile from in front of the Forbestown Tunnel intake. The Sly Creek budget did not change from the Board-approved \$398,000.

**SOUTH FEATHER WATER AND POWER
SOUTH FEATHER POWER PROJECT
January 2007
STORAGE**

RESERVOIR	MAXIMUM CAPACITY	STORAGE ON 1-31-07	STORAGE ON 1-31-06
Little Grass Valley	94,660 AF	50,446 AF	67,329 AF
Sly Creek	65,650 AF	17,682 AF	49,920 AF
Lost Creek	5,750 AF	4,907 AF	5,107 AF
Forbestown Diversion	358 AF	306 AF	352 AF
Ponderosa	4,750 AF	3,711 AF	4,375 AF
Miners Ranch	896 AF	767 AF	718 AF
TOTAL	172,064 AF	77,819 AF	127,801 AF
Slate Creek Tunnel	800 CFS	27 CFS	372 CFS
South Fork Tunnel	600 CFS	17 CFS	388 CFS
Miners Ranch Canal	303 CFS	250 CFS	264 CFS

MONTHLY NET GENERATION

	FOR January 2007	YEAR TO DATE ON 1-31-07	YEAR TO DATE ON 1-31-06
Woodleaf P.H.	16,876,650 KWH	16,876,650 KWH	34,830,160 KWH
Forbestown P.H.	9,722,310 KWH	9,722,310 KWH	24,937,330 KWH
Kelly Ridge P.H.	7,816,051 KWH	7,816,051 KWH	8,008,055 KWH
Sly Creek P.H.	1,562,700 KWH	1,562,700 KWH	5,515,700 KWH
TOTAL	35,977,711 KWH	35,977,711 KWH	73,291,245 KWH

South Feather Power Project - Forbestown Precipitation

