



SOUTH FEATHER WATER & POWER AGENCY

TO: Board of Directors

FROM: Kathy Petersen, Power Division Manager

DATE: December 10, 2007

RE: General Information (regarding matters not scheduled on agenda)
December 18, 2007 Board of Directors Meeting

Operations

Attached for your information is the Storage and Generation Report for November 2007. Also attached is a chart showing precipitation as of December 10, 2007.

The combined storage in Little Grass Valley and Sly Creek has reached the end of year target of 60,000 acre-feet. Flows from Little Grass Valley were increased to 85 cfs for three weeks to move water into Sly Creek Reservoir for generation downstream (bypassing Sly Creek Powerhouse), but have now been returned to minimum flow. Diversions from Slate Creek started on December 10, as flows have been close to 20 cfs for at least a week.

Maintenance Projects

Sly Creek Powerhouse Shaft Alignment

The maintenance crew has just about completed the tear down of Sly Creek Powerhouse in preparation for alignment of the shaft, and technicians from PG&E should be arriving the week of December 17 with the instrumentation to assist in the alignment process. Sly Creek Powerhouse will remain out of service through mid-January while repairs are made and the unit is reassembled.

McCabe and Powell Creek Siphon Inspections and Repairs

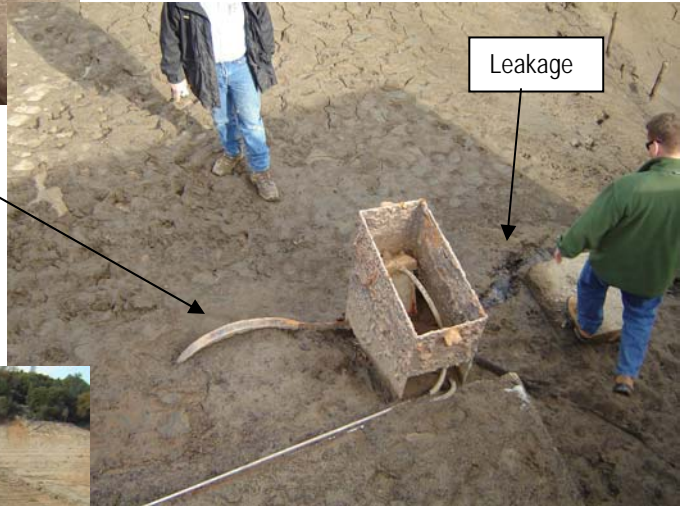
Alex Brown, John Davis and I took advantage of the low Lake Oroville water level to conduct an inspection of the siphon sections of the Miners Ranch Conduit. Both siphons were constructed with valves at the lowest point that at one time could be hydraulically operated to drain the siphons. However, 45 years of submersion has caused the controls to rot and/or rust away and mud to enter the controls, leaving the valves inoperable. Over time, the valves have drifted slightly open, and a small amount of water is leaking from each valve. Because there is no reason for these valves to be operated in the future, flanges are being installed over them to prevent further leakage. The photos below show the conditions of the siphons

on November 29.



At left is the McCabe Creek siphon, with water spraying from the drain valve. Not visible on the far side of the last concrete saddle is an access hatch that could be opened if the siphon needed to be entered or drained.

At right is the Powell Creek siphon drain valve (buried in the silt) and the damaged operator. The leakage from this valve is visible in the small stream flowing to the right of the operator.



At left is the Powell Creek siphon as viewed from the upstream side. Riprap remains over part of the buried section, and concrete covers the upper portion. On the far bank, the siphon flows into the lowest section of the Miners Ranch Canal, near the Stringtown boat ramp.

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

RESERVOIR	MAXIMUM CAPACITY	STORAGE ON 11-30-07	STORAGE ON 11-30-06
Little Grass Valley	94,660 AF	48,341 AF	47,094 AF
Sly Creek	65,650 AF	15,049 AF	18,410 AF
Lost Creek	5,750 AF	4,819 AF	4,936 AF
Forbestown Diversion	358 AF	311 AF	299 AF
Ponderosa	4,750 AF	4,185 AF	4,260 AF
Miners Ranch	896 AF	769 AF	750 AF
TOTAL	172,064 AF	73,474 AF	75,749 AF
Slate Creek Tunnel	800 CFS	N/A CFS	3 CFS
South Fork Tunnel	600 CFS	83 CFS	53 CFS
Miners Ranch Canal	303 CFS	237 CFS	250 CFS

MONTHLY NET GENERATION

	FOR November 2007	YEAR TO DATE ON 11-30-07	YEAR TO DATE ON 11-30-06
Woodleaf P.H.	6,278,630 KWH	154,839,480 KWH	325,668,660 KWH
Forbestown P.H.	2,348,730 KWH	88,546,570 KWH	152,602,000 KWH
Kelly Ridge P.H.	2,526,532 KWH	66,018,918 KWH	72,388,951 KWH
Sly Creek P.H.	0 KWH	17,551,200 KWH	50,507,200 KWH
TOTAL	11,153,892 KWH	326,956,168 KWH	601,166,811 KWH

South Feather Power Project - Forbestown Precipitation

