



## ***SOUTH FEATHER WATER & POWER AGENCY***

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**TO:** Board of Directors

**FROM:** Kathy Petersen, Power Division Manager

**DATE:** March 17, 2009

**RE:** General Information (regarding matters not scheduled on agenda)  
March 24, 2009 Board of Directors Meeting

### **Operations**

Attached is the Storage and Generation Report for February 2009. Also attached is a chart showing precipitation as of March 17, 2009. The series of wet and relatively warm storms that moved through the area at the end of February and early March improved conditions considerably. Based on the Pilot Peak snow data and the latest reservoir inflows, we expect to fill Sly Creek Reservoir, and to come within five feet of filling Little Grass Valley Reservoir. Spills occurred at the small diversion dams and Lost Creek Dam during the first week of March. DWR's March 1 Bulletin-120 forecast was more pessimistic, predicting only 55 percent of average April – July runoff for the South Fork Feather River.

### 2008 Water Transfer

The 10,000 acre-feet released from Little Grass Valley and Sly Creek reservoirs for the 2008 transfer was refilled during the period of March 2 – 4. Because Lake Oroville was not in flood operations at the time, the refill water was credited to the Impact Account and will be released to the State Water Project on a mutually agreeable schedule at some point between now and the end of 2009.

### **Maintenance Projects**

#### Forbestown Tunnel Intake Sediment Removal Project

Dredging of the sediment pile in front of the Forbestown Tunnel intake structure began March 9. The first couple of days went slowly as there were issues with our generator running smoothly while pumping the minimum-flow release around the work site (necessary to prevent violation of water quality permit requirements), and the coordination of the trucks hauling material to the spoil site needed to be fine tuned. By Wednesday of the first week things were running fairly smoothly and significant quantities of material were removed through the end of the first week. The project will end on Friday March 20.

This project is a good partnership of Water and Power Division crews working with a PG&E General Construction crew.



Barges with long-reach excavator and dredged material.



Minimum flows pumped from reservoir through manifold and...



...then piped and released over spillway, maintaining downstream water quality.

### Spring Outage Season

Forbestown Powerhouse was returned to service following the annual two-week outage on March 6. No significant problems were encountered, although the start-up testing was confounded by the setting of a new mechanical over-speed device. John Davis and Bob Cherry decided to reinstall the old over-speed device to prevent delaying the unit startup, and will investigate installation of the new device at a later date.

The outage at Sly Creek started on March 16 and is scheduled to last two weeks. The work there will include routine inspections and repairs. Technicians from PG&E's testing group will be coming during the second week to complete the balancing of the unit following last year's work to straighten the turbine and generator shafts.

### **General Information**

#### SCADA System Upgrade

Last year PG&E advised us that they planned to upgrade the Supervisory Control and Data Acquisition (SCADA) software at their hydro switching centers and at the Partnership facilities. We have been running for many years on a DOS-based system. The new system uses a platform developed by Open Systems International (OSI) and is a Windows-based system. Our upgrade is budgeted for this year and the work will be done by a contractor to PG&E, Shaw Group. The project kickoff meeting was held on March 5 and included Art Martinez, Scott Underhill, Brian Howerton and myself.

**SOUTH FEATHER WATER AND POWER  
SOUTH FEATHER POWER PROJECT  
February 2009  
STORAGE**

<b>RESERVOIR</b>	<b>MAXIMUM CAPACITY</b>	<b>STORAGE ON 2-28-09</b>	<b>STORAGE ON 2-29-08</b>
Little Grass Valley	89,804 AF	48,357 AF	44,751 AF
Sly Creek	64,338 AF	32,896 AF	19,514 AF
Lost Creek	5,361 AF	4,776 AF	4,336 AF
Forbestown Diversion	352 AF	352 AF	305 AF
Ponderosa	4,178 AF	3,527 AF	3,541 AF
Miners Ranch	896 AF	759 AF	787 AF
<b>TOTAL</b>	<b>164,929 AF</b>	<b>90,667 AF</b>	<b>73,234 AF</b>
Slate Creek Tunnel	800 CFS	423 CFS	125 CFS
South Fork Tunnel	600 CFS	174 CFS	63 CFS
Miners Ranch Canal	303 CFS	250 CFS	243 CFS

**MONTHLY NET GENERATION**

	<b>FOR February 2009</b>	<b>YEAR TO DATE ON 2-28-09</b>	<b>YEAR TO DATE ON 2-29-08</b>
Woodleaf P.H.	6,339,140 KWH	11,030,400 KWH	13,874,920 KWH
Forbestown P.H.	3,042,630 KWH	5,156,330 KWH	9,721,490 KWH
Kelly Ridge P.H.	5,004,126 KWH	8,418,990 KWH	11,226,093 KWH
Sly Creek P.H.	488,300 KWH	884,100 KWH	0 KWH
<b>TOTAL</b>	<b>14,874,196 KWH</b>	<b>25,489,820 KWH</b>	<b>34,822,503 KWH</b>

### South Feather Power Project - Forbestown Precipitation

