



SOUTH FEATHER WATER & POWER AGENCY

TO: Board of Directors

FROM: Kathy Zancanella, Power Division Manager

DATE: April 19, 2010

RE: General Information (regarding matters not scheduled on agenda)
4/17/10 Board of Directors Meeting

Operations

Attached is the Storage and Generation Report for March 2010. Also attached is a chart showing precipitation as of April 19. The April storms brought additional snowfall to the watershed above 3,000 feet, and over five inches of rainfall at Forbestown. DWR's Bulletin 120 April update indicates that runoff will be about 77% of average on the South Fork Feather River, and 84% for the Feather River at Oroville.

Slate Creek Sediment Pass-Through

On March 31, a sediment-pass-through operation was conducted at Slate Creek Diversion. Flows in the stream during pass-through operations were between 650–680 cfs and significant movement of sediment occurred. The operation was ended after about two hours because woody debris began to clog the grizzly covering the outlet structure. The debris will be removed when flows stabilize and crews can safely get it off the structure.

Maintenance Projects

Miners Ranch Canal – Station 5 Road

Geotechnical consultants Cotton Shires & Associates brought in an exploratory drilling rig to determine soil and rock characteristics along the Miners Ranch Canal access road on March 24 and 25. This is in preparation for developing plans to install soldier piles and retaining walls where the road edge has been compromised. The project manager indicated that the borings went well and provided good information regarding the geology of the site.

Temporary Gauging Station at Sly Creek Dam

As part of the construction at Sly Creek Dam, a new control building and gauging station will be built near the spillway. However, it was necessary for the crew to erect a temporary gauging structure as the existing one will be demolished early in the construction process. John Davis provided the photo (below) taken the Monday after Easter, when eight inches of snow fell at the dam.



Bangor Canal Outlet at Miners Ranch Dam

On April 14, the crew took the Bangor Canal outlet structure out of service for the annual inspection prior to the start of the irrigation season. The guard gate was operated several times to remove any barnacles that had formed in the past year, and the regulating gate was inspected and determined to be in good shape. John Davis inspected the outlet tunnel and found it in good condition as well. After conferring with the Division of Safety of Dams, the tunnel will now only need to be inspected every five years, or after a significant earthquake in the area.

General Information

DSOD Meeting

I will be meeting with AECOM and DSOD on April 22 to discuss the plans for future modifications to Lost Creek Dam to safely pass the probable maximum flood. I will share those plans with you at the Board meeting.

East Maui Irrigation

While I forgot about work much of the time I was on vacation, I stopped to look at one of the East Maui Irrigation District's diversion structures. EMI has been around for 120 years and has about 74 miles of canals and tunnels that feed the sugar cane fields in central Maui. Ditch tenders probably have to carry machetes for the jungle growth. (I'm not sure who that strange person is hanging from the top of the structure, but he followed me pretty much everywhere I went on the island. Eventually, he came home with me.)¹



¹ A parenthetical attempt at humor by editor Michael Glaze.

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

RESERVOIR	MAXIMUM CAPACITY	STORAGE ON 3-31-10	STORAGE ON 3-31-09
Little Grass Valley	89,804 AF	51,071 AF	64,661 AF
Sly Creek	64,338 AF	38,954 AF	54,333 AF
Lost Creek	5,361 AF	4,627 AF	4,767 AF
Forbestown Diversion	352 AF	316 AF	304 AF
Ponderosa	4,178 AF	3,592 AF	3,644 AF
Miners Ranch	896 AF	792 AF	769 AF
TOTAL	164,929 AF	99,352 AF	128,478 AF
Slate Creek Tunnel	800 CFS	702 CFS	277 CFS
South Fork Tunnel	600 CFS	216 CFS	104 CFS
Miners Ranch Canal	303 CFS	N/A CFS	5 CFS

**MONTHLY NET GENERATION
FOR
March 2010**

	FOR March 2010	YEAR TO DATE ON 3-31-10	YEAR TO DATE ON 3-31-09
Woodleaf P.H.	17,356,840 KWH	37,805,440 KWH	33,409,800 KWH
Forbestown P.H.	12,050,750 KWH	25,315,210 KWH	20,409,460 KWH
Kelly Ridge P.H.	6,573,114 KWH	17,227,995 KWH	15,618,510 KWH
Sly Creek P.H.	2,173,400 KWH	3,992,000 KWH	3,236,300 KWH
TOTAL	38,154,104 KWH	84,340,645 KWH	72,674,070 KWH

South Feather Power Project - Forbestown Precipitation

