

April 12, 2011

VIA E-MAIL

Tim Heyne
California Dept. of Fish and Game
P.O. Box 10
La Grange, CA 95329

Deborah Giglio
U.S. Fish and Wildlife Service
2800 Cottage Way, W-2605
Sacramento, CA 95825

Jeff Stuart
National Marine Fisheries Service
650 Capitol Mall, Suite 8-300
Sacramento, CA 95814-4708

RE: Project 2299 – Minimum Flow Coordination Process for 2010-2011 Fish Flow Year

Dear Fishery Agency Representatives:

The 1996 FERC Order, Amended Article 37, contained a Water Year Classification Index for determining the volume of scheduled stream flows for each fish flow year. The classifications are based on the San Joaquin Basin 60-20-20 Indices for water years. The index has been updated in a continuous fashion based on the Department of Water Resources (DWR) monthly forecasts. Updates of those forecasts are provided in Table 1. We are in a wet year with respect to the 50% and 90% exceedence levels.

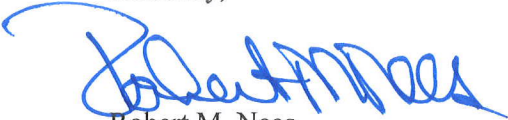
Based upon applying the current DWR April-July runoff forecast to the DWR 60-20-20 basin index, the annual minimum flow requirements are 300,923 AF under both the 90% Exceedence case and the 50% Exceedence case. These values are also shown on Table 1 with the respective 60-20-20 index.

Based upon the above, a daily schedule is provided and will be followed. The thought process that went into the schedule is as follows:

- 1) The base flow and pulse flow amounts are based upon those specified in the 1996 FERC Order.
- 2) The timing of the spring pulse flow amounts are consistent with the VAMP period starting May 1, 2011.
- 3) The spring pulse flows are shown as steady with a ramp down.
- 4) A ramp down to the June flow is shown.
- 5) There is no "interpolation water" volume for this year.
- 6) The initial timing of the fall pulse flow shown is based on a default schedule of October 6 through 10 that was established in 1996, that may be adjusted later.

If you have any questions, please contact Wes Monier at 209-883-8321.

Sincerely,



Robert M. Nees
Assistant General Manager
Civil Engineering and Water Resources

C: Casey Hashimoto - TID
Allen Short - MID
FERC Secretary



Table 1

SAN JOAQUIN VALLEY WATER YEAR HYDROLOGIC CLASSIFICATION
602020 INDEX

YEAR	APRIL-JULY RUNOFF (AF)			OCTOBER-MARCH RUNOFF (AF)			TOTAL	602020 INDEX	TUOLUMNE RIVER MINIMUM FLOW REQUIREMENT	San Joaquin Index (not the FERC Index)	RANKING
	TUOLUMNE	MERCED	FRIANT	TUOLUMNE	MERCED	FRIANT					
Feb 1 Forecast											
Dry	590,000	580,000	1,330,000	3,580,000			2,905,000	3,438,540	300,923	Above Normal	
Average	820,000	760,000	1,690,000	4,740,000	535,000	740,000	3,260,000	4,205,540	300,923	Wet	
Wet	1,280,000	1,270,000	2,510,000	7,320,000	605,000	840,000	4,105,000	5,922,540	300,923	Wet	
Feb 08 Update											
Dry	580,000	560,000	1,290,000	3,490,000	535,000	740,000	2,905,000	3,384,540	300,923	Above Normal	
Average	790,000	730,000	1,630,000	4,570,000	605,000	840,000	3,260,000	4,103,540	300,923	Wet	
Wet	1,230,000	1,200,000	2,390,000	6,990,000	795,000	1,070,000	4,105,000	5,724,540	300,923	Wet	
Feb 15 Update											
Dry	560,000	530,000	1,230,000	3,340,000	535,000	740,000	2,905,000	3,294,540	300,923	Above Normal	
Average	760,000	690,000	1,550,000	4,340,000	605,000	840,000	3,260,000	3,985,540	300,923	Wet	
Wet	1,190,000	1,120,000	2,260,000	6,620,000	795,000	1,070,000	4,105,000	5,502,540	300,923	Wet	
Feb 22 Update											
Dry	640,000	610,000	1,360,000	3,800,000	535,000	740,000	2,905,000	3,570,540	300,923	Above Normal	
Average	820,000	760,000	1,680,000	4,720,000	605,000	840,000	3,260,000	4,193,540	300,923	Wet	
Wet	1,230,000	1,150,000	2,310,000	6,830,000	795,000	1,070,000	4,105,000	5,628,540	300,923	Wet	
Mar 1 Forecast											
Dry	680,000	630,000	1,350,000	3,870,000	560,000	740,000	2,945,000	3,620,540	300,923	Above Normal	
Average	850,000	770,000	1,630,000	4,720,000	595,000	795,000	3,125,000	4,166,540	300,923	Wet	
Wet	1,240,000	1,120,000	2,220,000	6,670,000	670,000	900,000	3,515,000	5,414,540	300,923	Wet	
Mar 08 Update											
Dry	740,000	670,000	1,420,000	4,140,000	560,000	740,000	2,945,000	3,782,540	300,923	Above Normal	
Average	900,000	800,000	1,680,000	4,930,000	595,000	795,000	3,125,000	4,292,540	300,923	Wet	
Wet	1,260,000	1,130,000	2,210,000	6,720,000	670,000	900,000	3,515,000	5,444,540	300,923	Wet	
Mar 15 Update											
Dry	750,000	660,000	1,400,000	4,130,000	560,000	740,000	2,945,000	3,776,540	300,923	Above Normal	
Average	900,000	780,000	1,640,000	4,860,000	595,000	795,000	3,125,000	4,250,540	300,923	Wet	
Wet	1,230,000	1,060,000	2,120,000	6,490,000	670,000	900,000	3,515,000	5,306,540	300,923	Wet	
Mar 22 Update											
Dry	880,000	820,000	1,630,000	4,920,000	560,000	740,000	2,945,000	4,250,540	300,923	Wet	
Average	1,020,000	930,000	1,850,000	5,590,000	595,000	795,000	3,125,000	4,688,540	300,923	Wet	
Wet	1,320,000	1,210,000	2,270,000	7,050,000	670,000	900,000	3,515,000	5,642,540	300,923	Wet	
Apr 1 Forecast											
Dry	1,060,000	940,000	1,910,000	5,790,000	725,000	880,000	3,675,000	4,918,540	300,923	Wet	
Average	1,180,000	1,040,000	2,100,000	6,370,000	725,000	880,000	3,675,000	5,266,540	300,923	Wet	
Wet	1,430,000	1,260,000	2,440,000	7,590,000	725,000	880,000	3,675,000	5,998,540	300,923	Wet	

TABLE 2
Tuolumne River Flow Schedule
Default
SCHEDULE FOR 2011 - 2012 Fish Flow Year

DATE		Number of DAYS	BASE FLOW			PULSE FLOW			ADDITIONAL FLOW			TOTAL FERC FLOW	
From:	To:		CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	AF	ACCUM. A.F.	CFS	ACCUM. A.F.
15-Apr-2011	15-Apr-2011	1	300	595	595	0	0	0	0	0	0	300	595
16-Apr-2011	16-Apr-2011	1	300	595	1,190	0	0	0	0	0	0	300	1,190
17-Apr-2011	17-Apr-2011	1	300	595	1,785	0	0	0	0	0	0	300	1,785
18-Apr-2011	18-Apr-2011	1	300	595	2,380	0	0	0	0	0	0	300	2,380
19-Apr-2011	19-Apr-2011	1	300	595	2,975	0	0	0	0	0	0	300	2,975
20-Apr-2011	20-Apr-2011	1	300	595	3,570	0	0	0	0	0	0	300	3,570
21-Apr-2011	21-Apr-2011	1	300	595	4,165	0	0	0	0	0	0	300	4,165
22-Apr-2011	22-Apr-2011	1	300	595	4,760	0	0	0	0	0	0	300	4,760
23-Apr-2011	23-Apr-2011	1	300	595	5,355	0	0	0	0	0	0	300	5,355
24-Apr-2011	24-Apr-2011	1	300	595	5,950	0	0	0	0	0	0	300	5,950
25-Apr-2011	25-Apr-2011	1	300	595	6,545	0	0	0	0	0	0	300	6,545
26-Apr-2011	26-Apr-2011	1	300	595	7,140	0	0	0	0	0	0	300	7,140
27-Apr-2011	27-Apr-2011	1	300	595	7,736	0	0	0	0	0	0	300	7,736
28-Apr-2011	28-Apr-2011	1	300	595	8,331	550	1,091	1,091	0	0	0	850	9,421
29-Apr-2011	29-Apr-2011	1	300	595	8,926	1,417	2,811	3,902	0	0	0	1,717	12,827
30-Apr-2011	30-Apr-2011	1	300	595	9,521	1,417	2,811	6,713	0	0	0	1,717	16,233
01-May-2011	01-May-2011	1	300	595	10,116	1,417	2,811	9,524	0	0	0	1,717	19,639
02-May-2011	02-May-2011	1	300	595	10,711	1,417	2,811	12,335	0	0	0	1,717	23,045
03-May-2011	03-May-2011	1	300	595	11,306	1,417	2,811	15,146	0	0	0	1,717	26,451
04-May-2011	04-May-2011	1	300	595	11,901	1,417	2,811	17,957	0	0	0	1,717	29,857
05-May-2011	05-May-2011	1	300	595	12,496	1,417	2,811	20,767	0	0	0	1,717	33,263
06-May-2011	06-May-2011	1	300	595	13,091	1,417	2,811	23,578	0	0	0	1,717	36,669
07-May-2011	07-May-2011	1	300	595	13,686	1,417	2,811	26,389	0	0	0	1,717	40,075
08-May-2011	08-May-2011	1	300	595	14,281	1,417	2,811	29,200	0	0	0	1,717	43,481
09-May-2011	09-May-2011	1	300	595	14,876	1,417	2,811	32,011	0	0	0	1,717	46,887
10-May-2011	10-May-2011	1	300	595	15,471	1,417	2,811	34,822	0	0	0	1,717	50,293
11-May-2011	11-May-2011	1	300	595	16,066	1,417	2,811	37,633	0	0	0	1,717	53,699
12-May-2011	12-May-2011	1	300	595	16,661	1,417	2,811	40,444	0	0	0	1,717	57,105
13-May-2011	13-May-2011	1	300	595	17,256	1,417	2,811	43,255	0	0	0	1,717	60,511
14-May-2011	14-May-2011	1	300	595	17,851	1,417	2,811	46,066	0	0	0	1,717	63,917
15-May-2011	15-May-2011	1	300	595	18,446	1,417	2,811	48,877	0	0	0	1,717	67,323
16-May-2011	16-May-2011	1	300	595	19,041	1,417	2,811	51,688	0	0	0	1,717	70,729
17-May-2011	17-May-2011	1	300	595	19,636	1,417	2,811	54,499	0	0	0	1,717	74,135
18-May-2011	18-May-2011	1	300	595	20,231	1,417	2,811	57,310	0	0	0	1,717	77,541
19-May-2011	19-May-2011	1	300	595	20,826	1,417	2,811	60,121	0	0	0	1,717	80,947
20-May-2011	20-May-2011	1	300	595	21,421	1,417	2,811	62,931	0	0	0	1,717	84,353
21-May-2011	21-May-2011	1	300	595	22,017	1,417	2,811	65,742	0	0	0	1,717	87,759
22-May-2011	22-May-2011	1	300	595	22,612	1,417	2,811	68,553	0	0	0	1,717	91,165
23-May-2011	23-May-2011	1	300	595	23,207	1,417	2,811	71,364	0	0	0	1,717	94,571
24-May-2011	24-May-2011	1	300	595	23,802	1,417	2,811	74,175	0	0	0	1,717	97,977
25-May-2011	25-May-2011	1	300	595	24,397	1,417	2,811	76,986	0	0	0	1,717	101,383
26-May-2011	26-May-2011	1	300	595	24,992	1,417	2,811	79,797	0	0	0	1,717	104,789
27-May-2011	27-May-2011	1	300	595	25,587	1,417	2,811	82,608	0	0	0	1,717	108,195
28-May-2011	28-May-2011	1	300	595	26,182	1,417	2,811	85,419	0	0	0	1,717	111,601
29-May-2011	29-May-2011	1	300	595	26,777	750	1,488	86,907	0	0	0	1,050	113,683
30-May-2011	30-May-2011	1	300	595	27,372	600	1,190	88,097	0	0	0	900	115,468
31-May-2011	31-May-2011	1	300	595	27,967	450	893	88,989	0	0	0	750	116,956
01-Jun-2011	01-Jun-2011	1	250	496	28,463	300	595	89,584	0	0	0	550	118,047
02-Jun-2011	02-Jun-2011	1	250	496	28,959	150	298	89,882	0	0	0	400	118,840
03-Jun-2011	03-Jun-2011	1	250	496	29,455	0	0	89,882	0	0	0	250	119,336
04-Jun-2011	04-Jun-2011	1	250	496	29,950	0	0	89,882	0	0	0	250	119,832
05-Jun-2011	30-Jun-2011	26	250	12,893	42,843	0	0	89,882	0	0	0	250	132,725
01-Jul-2011	31-Jul-2011	31	250	15,372	58,215	0	0	89,882	0	0	0	250	148,097
01-Aug-2011	31-Aug-2011	31	250	15,372	73,587	0	0	89,882	0	0	0	250	163,468
01-Sep-2011	30-Sep-2011	30	250	14,876	88,463	0	0	89,882	0	0	0	250	178,345
01-Oct-2011	01-Oct-2011	1	300	595	89,058	0	0	89,882	0	0	0	300	178,940
02-Oct-2011	05-Oct-2011	4	300	2,380	91,438	0	0	89,882	0	0	0	300	181,320
06-Oct-2011	08-Oct-2011	3	300	1,785	93,223	800	4,760	94,642	0	0	0	1,100	187,865
09-Oct-2011	09-Oct-2011	1	300	595	93,818	500	992	95,634	0	0	0	800	189,452
10-Oct-2011	10-Oct-2011	1	300	595	94,413	100	198	95,832	0	0	0	400	190,245
11-Oct-2011	31-Oct-2011	21	300	12,496	106,909	0	0	95,832	0	0	0	300	202,741
01-Nov-2011	30-Nov-2011	30	300	17,851	124,760	0	0	95,832	0	0	0	300	220,592
01-Dec-2011	31-Dec-2011	31	300	18,446	143,207	0	0	95,832	0	0	0	300	239,039
01-Jan-2012	31-Jan-2012	31	300	18,446	161,653	0	0	95,832	0	0	0	300	257,485
01-Feb-2012	29-Feb-2012	29	300	17,256	178,909	0	0	95,832	0	0	0	300	274,741
01-Mar-2012	31-Mar-2012	31	300	18,446	197,355	0	0	95,832	0	0	0	300	293,187
01-Apr-2012	14-Apr-2012	14	300	8,331	205,686	0	0	95,832	0	0	0	300	301,518

No. of days 366 (April 15 through April 14)

1 cfs day = 1.983471 acre-feet (af)