



TURLOCK IRRIGATION DISTRICT
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December 6, 2007

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U.S. Fish and Wildlife Service
2800 Cottage Way, W-2605
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Sacramento, CA 95814-4708

RE: Project 2299 - Water Year Classification Index, Article 38 45-Day Period, and Fall Pulse Flow

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 were based on the San Joaquin Basin 60-20-20 Indices for water years 1906-1995. The order stated, "60-20-20 index numbers used each year shall be updated to incorporate subsequent water years pursuant to standard Water Resources Department procedures so as to maintain approximately the same frequency distribution of water year types." The index is now updated to incorporate water years through 2007 (Table 1). While the frequency distribution remains the same, some index numbers may change slightly with each annual update to maintain the frequency distribution.

The Article 38 '45-Day Period' in fall 2007 began October 17 and ended November 30, as has been the standard practice for many years since being established by the California Department of Fish and Game as the default period. In accordance with Article 38, reduction in river height between the end of the 45-day period and March 31 shall not exceed four inches (0.33 feet) below the average height established during the 45-day period (as measured at Old La Grange Bridge). Using provisional daily flow data from the USGS gage at La Grange, the calculated average flow was 170.6 cfs for the 2007 45-day period, which corresponds to a river height of 169.60 feet at the Old La Grange Bridge based on the USGS 1996 rating table. A gage elevation of 169.27 feet is 4 inches below that average and corresponds to 76.7 cfs as shown on Table 2. The current minimum flow requirement exceeds 76.7 cfs through March 31 as the present schedule is 150 cfs through April 14, so there is no effect on minimum flow requirements resulting from Article 38.



There is no fall pulse flow allocation required in the current 2007-2008 fish flow year type (Median Critical) per Amended Article 37. There was also none requested by the fishery agencies following our last flow schedule letter of September 11, 2007.

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

Sincerely,



Robert Nees
Assistant General Manager
Water Resources and Regulatory Affairs Administration

C: Larry Weis - TID
Allen Short - MID
FERC Secretary

TABLE 1
DETERMINATION OF WATER YEAR CLASSIFICATION THRESHOLDS
Water Year Classification

Water Year Classification	Settlement Agreement	602020 INDEX (x.1000)											
		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Critical Water Year and Below	<	1,441	1,441	1,441	1,476	1,476	1,476	1,476	1,476	1,476	1,476	1,476	1,476
Median Critical Water Year	>=	1,441	1,441	1,441	1,476	1,476	1,476	1,476	1,476	1,476	1,476	1,476	1,476
Intermediate Critical Dry Water Year	>=	1,954	1,954	1,954	1,954	1,954	1,954	1,954	1,954	1,954	1,954	1,954	1,954
Median Dry	>=	2,159	2,159	2,183	2,183	2,183	2,183	2,183	2,187	2,187	2,187	2,187	2,183
Intermediate Dry-Below Normal	>=	2,441	2,441	2,442	2,442	2,442	2,442	2,441	2,441	2,441	2,441	2,441	2,403
Median Below Normal	>=	2,720	2,720	2,720	2,720	2,753	2,720	2,720	2,698	2,720	2,720	2,720	2,720
* Intermediate Below Normal-Above Normal	>=	3,139	3,139	3,183	3,183	3,225	3,183	3,183	3,139	3,189	3,189	3,189	3,189
Median Above Normal	>=	3,689	3,689	3,740	3,740	3,669	3,689	3,689	3,689	3,689	3,689	3,689	3,689
Intermediate Above Normal-Wet	>=	3,903	3,903	4,028	4,028	3,903	3,903	3,903	3,888	3,888	3,903	3,903	3,903
Median Wet/Maximum	>=	4,593	4,593	4,653	4,653	4,653	4,653	4,593	4,593	4,653	4,653	4,653	4,730

* Maximum index value for fish flow year is not to go above value shown in this row

** The index in the Settlement Agreement was based on Water Years 1906-1995

TURLOCK IRRIGATION DISTRICT

October 17 - November 30, 2007 Average Flow

Tuolumne River Below La Grange Dam Near La Grange

ACTUAL FLOWS (Provisional USGS Numbers)

DATE	FLOW CFS	DATE	FLOW CFS
17-Oct	170	08-Nov	168
18-Oct	165	09-Nov	169
19-Oct	166	10-Nov	168
20-Oct	167	11-Nov	166
21-Oct	168	12-Nov	164
22-Oct	171	13-Nov	168
23-Oct	175	14-Nov	174
24-Oct	176	15-Nov	174
25-Oct	175	16-Nov	173
26-Oct	177	17-Nov	173
27-Oct	176	18-Nov	171
28-Oct	175	19-Nov	172
29-Oct	173	20-Nov	173
30-Oct	168	21-Nov	172
31-Oct	168	22-Nov	172
01-Nov	169	23-Nov	172
02-Nov	169	24-Nov	169
03-Nov	172	25-Nov	169
04-Nov	170	26-Nov	169
05-Nov	170	27-Nov	169
06-Nov	170	28-Nov	175
07-Nov	170	29-Nov	169
		30-Nov	168
TOTAL RELEASE=			7,677

45 day average = 170.6 cfs = 169.60 ft elevation *

Less 4 inches -0.33

Minimum Flow = 76.7 CFS = 169.27 ft elevation *

*

From U.S.G.S. table 22; for old La Grange Bridge (station not in use)