

# FPP Change Form

**Change Request Number: 10LWG001 Summer Spill Patterns**

**Date: July 13, 2009**

**Proposed by:** Tim Wik (USACE – Walla Walla)  
John Bailey (USACE – Walla Walla)

**Proposed Change:**

Add Table LWG-12 to the Lower Granite section of the fish passage plan. This table is to be used only for summer spill period. There is no change in spill volume, only a change in spill pattern is proposed. See attachment for proposed pattern.

**Reason for Change:**

Summer spill patterns for Lower Granite Dam were discussed at the late-April FFDRWG meeting. Previous testing seemed to indicate higher survival with a "bulk" pattern (one bay open 4 stops, along with RSW) than with the standard flat pattern. At the FFDRWG meeting, NOAA, BPA and CRITFC representatives agreed that a bulk pattern should be adopted for summer spill operations.

**Comments from others:**

-----Original Message-----

From: Kiefer,Russell [<mailto:russ.kiefer@idfg.idaho.gov>]

Sent: Monday, July 13, 2009 2:30 PM

To: Bailey, John C NWW

Subject: RE: FPOM coordination: New summer spill pattern at Lower Granite

John,

IDFG is in concurrence.

-----Original Message-----

From: BILL HEVLIN [<mailto:Bill.Hevlin@noaa.gov>]

Sent: Monday, July 13, 2009 3:42 PM

To: Bailey, John C NWW

Cc: Paul Wagner

Subject: Re: FPOM coordination: New summer spill pattern at Lower Granite

John,

Looks good, thanks for changing this.

Bill Hevlin

**Record of Final Action:**

Approved at the Nov 2009 FPOM

**Table LWG-12. Lower Granite summer spillway pattern for fish passage (with RSW operating at pool elevation 734).**

Spill Bay								Total Stops	Total Spill
1	2	3	4	5	6	7	8		
3.5	0	0	0	0	0	0	0	3.5	6.1
3.5	0	1	0	0	0	0	0	4.5	7.9
3.5	0	2	0	0	0	0	0	5.5	9.6
3.5	0	3	0	0	0	0	0	6.5	11.4
3.5	0	4	0	0	0	0	0	7.5	13.1
3.5	0	4	0	0	0	1	0	8.5	14.9
3.5	0	4	0	0	1	1	0	9.5	16.6
3.5	0	4	0	0	1	1	1	10.5	18.4
3.5	0	4	0	1	1	1	1	11.5	20.1
3.5	1	4	0	1	1	1	1	12.5	21.9
3.5	1	4	1	1	1	1	1	13.5	23.6
3.5	1	5	1	1	1	1	1	14.5	25.4
3.5	1	5	1	2	1	1	1	15.5	27.1
3.5	1	5	1	3	1	1	1	16.5	28.9
3.5	1	5	1	4	1	1	1	17.5	30.6
3.5	1	5	1	5	1	1	1	18.5	32.4
3.5	1	5	1	5	1	2	1	19.5	34.1
3.5	1	5	1	5	1	3	1	20.5	35.9
3.5	1	5	1	5	1	4	1	21.5	37.6
3.5	1	5	1	5	1	5	1	22.5	39.4
3.5	1	5	2	5	1	5	1	23.5	41.1
3.5	1	5	3	5	1	5	1	24.5	42.9
3.5	1	5	4	5	1	5	1	25.5	44.6
3.5	1	5	5	5	1	5	1	26.5	46.4
3.5	1	5	5	5	2	5	1	27.5	48.1
3.5	1	5	5	5	3	5	1	28.5	49.9
3.5	1	5	5	5	4	5	1	29.5	51.6
3.5	1	5	5	5	5	5	1	30.5	53.4
3.5	1	5	5	5	5	5	2	31.5	55.1
3.5	1	5	5	5	5	5	3	32.5	56.9
3.5	1	5	5	5	5	5	4	33.5	58.6
3.5	1	5	5	5	5	5	5	34.5	60.4
3.5	2	5	5	5	5	5	5	35.5	62.1
3.5	3	5	5	5	5	5	5	36.5	63.9
3.5	4	5	5	5	5	5	5	37.5	65.6
3.5	5	5	5	5	5	5	5	38.5	67.4
3.5	5	5	6	5	5	5	5	39.5	69.1
3.5	5	5	6	6	5	5	5	40.5	70.9
3.5	5	6	6	6	5	5	5	41.5	72.6
3.5	5	6	6	6	6	5	5	42.5	74.4
3.5	5	6	6	6	6	6	5	43.5	76.1

**Table LWG-12 (continued). Lower Granite summer spillway pattern for fish passage (with RSW operating at pool elevation 734).**

Spill Bay								Total Stops	Total Spill
1	2	3	4	5	6	7	8		
3.5	5	6	6	6	6	6	6	44.5	77.9
3.5	6	6	6	6	6	6	6	45.5	79.6
3.5	6	6	7	6	6	6	6	46.5	81.4
3.5	6	6	7	7	6	6	6	47.5	83.1
3.5	6	7	7	7	6	6	6	48.5	84.9
3.5	6	7	7	7	7	6	6	49.5	86.6
3.5	6	7	7	7	7	7	6	50.5	88.4
3.5	6	7	7	7	7	7	7	51.5	90.1
3.5	7	7	7	7	7	7	7	52.5	91.9
3.5	7	7	8	7	7	7	7	53.5	93.6

Note: At approximately 3.5 stops, the tainter gate no longer regulates flow through the RSW. The tainter gate should be raised at least 9 stops so the gate does not interfere with the spillbay flow.Note: Spillbay discharge at pool elevation 734:

Stops	Discharge (kcfs) (without RSW)	Stops	Discharge (kcfs) (without RSW)
1	1.7	5	9.1
2	3.5	6	11.0
3	5.4	7	12.8
4	7.2	8	14.7

Discharge (kcfs) (with RSW)-- RSW 3.5 stops or more 6.7