Created Tuesday, December 28, 2011 - This spill pattern is to be implemented in the event spill is necessary at Bonneville Dam until boulders are removed from between the flow deflectors and baffle blocks.

Note: The gate openings are provided in 0.5-foot increments of verticle lift. 0.5-foot vertical spill gate opening = 1 spill gate stop

Total discharge is based on the spillway rating curves (revised February 2005) but based on those developed from the 1:55 scale model and the original physical model studies.

Bonneville Spillway
Discharge Distribution Patterns

FB=74.0' Total Spill (cfs)		Spillway Bay Number																		Total # Ft of Opening
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
4,550	Vertical Spill Gate Opening (feet)	1																	1	2
8,913		2																	2	4
13,101		3																	3	6
17,129		4																	4	8
21,007		5																	5	10
23,282		5	1																5	11
25,464		5	2																5	12
28,796		5	2.5	1															5	13.5
31,071		5	2.5	1	1														5	14.5
33,346		5	2.5	1	1	1													5	15.5
35,621		5	2.5	1	1	1	1												5	16.5
40,170		5	2.5	1	1	1	1	1	1										5	18.5
42,445		5	2.5	1	1	1	1	1	1		1								5	19.5
44,720		5	2.5	1	1	1	1	1	1		1	1							5	20.5
46,995		5	2.5	1	1	1	1	1	1		1	1		1					5	21.5
49,270		5	2.5	1	1	1	1	1	1		1	1		1		1			5	22.5
51,545		5	2.5	1	1	1	1	1	1		1	1		1		1	1		5	23.5
52,581		5	3	1	1	1	1	1	1		1	1		1		1	1		5	24
54,595		5	4	1	1	1	1	1	1		1	1		1		1	1		5	25
56,777		5	4	2	1	1	1	1	1		1	1		1		1	1		5	26
58,871		5	4	3	1	1	1	1	1		1	1		1		1	1		5	27
61,052		5	4	3	2	1	1	1	1		1	1		1		1	1		5	28
62,992		5	5	3	2	1	1	1	1		1	1		1		1	1		5	29

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Note: The gate openings are provided in 0.5-foot increments of verticle lift. 0.5-foot vertical spill gate opening = 1 spill gate stop

Total discharge is based on the spillway rating curves (revised February 2005) but based on those developed from the 1:55 scale model and the original physical model studies.

Bonneville Spillway
Discharge Distribution Patterns

FB=74.0' Total Spill (cfs)		Spillway Bay Number																		Total # Gate Stops
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
4,550	**# of Gate Stops**	2																	2	**8**
8,913		4																	4	**16**
13,101		6																	6	**24**
17,129		8																	8	**32**
21,007		10																	10	**40**
23,282		10	2																10	**44**
25,464		10	4																10	**48**
28,796		10	5	2															10	**54**
31,071		10	5	2	2														10	**58**
33,346		10	5	2	2	2													10	**62**
35,621		10	5	2	2	2	2												10	**66**
40,170		10	5	2	2	2	2	2	2										10	**74**
42,445		10	5	2	2	2	2	2	2		2								10	**78**
44,720		10	5	2	2	2	2	2	2		2	2							10	**82**
46,995		10	5	2	2	2	2	2	2		2	2		2					10	**86**
49,270		10	5	2	2	2	2	2	2		2	2		2		2			10	**90**
51,545		10	5	2	2	2	2	2	2		2	2		2		2	2		10	**94**
52,581		10	6	2	2	2	2	2	2		2	2		2		2	2		10	**96**
54,595		10	8	2	2	2	2	2	2		2	2		2		2	2		10	**100**
56,777		10	8	4	2	2	2	2	2		2	2		2		2	2		10	**104**
58,871		10	8	6	2	2	2	2	2		2	2		2		2	2		10	**108**
61,052		10	8	6	4	2	2	2	2		2	2		2		2	2		10	**112**
62,992		10	10	6	4	2	2	2	2		2	2		2		2	2		10	**116**

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Total discharge is based on the spillway rating curves (revised February 2005) but based on those developed from the 1:55 scale model and the original physical model studies.

Bonneville Spillway
Discharge Distribution Patterns

FB=74.0' Total Spill (cfs)		Spillway Bay Number																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
4,550	**Discharge (cfs)**	2,275																	2,275
8,913		4,456																	4,456
13,101		6,551																	6,551
17,129		8,564																	8,564
21,007		10,504																	10,504
23,282		10,504	2,275																10,504
25,464		10,504	4,456																10,504
28,796		10,504	5,514	2,275															10,504
31,071		10,504	5,514	2,275	2,275														10,504
33,346		10,504	5,514	2,275	2,275	2,275													10,504
35,621		10,504	5,514	2,275	2,275	2,275	2,275												10,504
40,170		10,504	5,514	2,275	2,275	2,275	2,275	2,275	2,275										10,504
42,445		10,504	5,514	2,275	2,275	2,275	2,275	2,275	2,275		2,275								10,504
44,720		10,504	5,514	2,275	2,275	2,275	2,275	2,275	2,275		2,275	2,275							10,504
46,995		10,504	5,514	2,275	2,275	2,275	2,275	2,275	2,275		2,275	2,275		2,275					10,504
49,270		10,504	5,514	2,275	2,275	2,275	2,275	2,275	2,275		2,275	2,275		2,275		2,275			10,504
51,545		10,504	5,514	2,275	2,275	2,275	2,275	2,275	2,275		2,275	2,275		2,275		2,275	2,275		10,504
52,581		10,504	6,551	2,275	2,275	2,275	2,275	2,275	2,275		2,275	2,275		2,275		2,275	2,275		10,504
54,595		10,504	8,564	2,275	2,275	2,275	2,275	2,275	2,275		2,275	2,275		2,275		2,275	2,275		10,504
56,777		10,504	8,564	4,456	2,275	2,275	2,275	2,275	2,275		2,275	2,275		2,275		2,275	2,275		10,504
58,871		10,504	8,564	6,551	2,275	2,275	2,275	2,275	2,275		2,275	2,275		2,275		2,275	2,275		10,504
61,052		10,504	8,564	6,551	4,456	2,275	2,275	2,275	2,275		2,275	2,275		2,275		2,275	2,275		10,504
62,992		10,504	10,504	6,551	4,456	2,275	2,275	2,275	2,275		2,275	2,275		2,275		2,275	2,275		10,504