**OFFICIAL COORDINATION REQUEST FOR**

**NON-ROUTINE OPERATIONS AND MAINTENANCE**

**COORDINATION TITLE –** 16 LGS 08 SW Change from High to Low Crest Configuration.

**COORDINATION DATE –** 08 April 2016

**PROJECT -** Little Goose Lock and Dam

**RESPONSE DATE –** 11 April 2016

**Description of the problem**

The Little Goose spillway weir (SW) began operation in the High Crest position at the start of routine Spring spill in support of fish passage on April 3, in accordance with the 2016 Fish Operations Plan (FOP). The 2016 Fish Passage Plan (FPP) requires that the SW configuration be changed from High Crest Position to Low Crest configuration

“3 normal work days prior to the date on which the most recent STP forecasts daily average flow above 85 kcfs for at least 7 consecutive days, or if actual flow indicates that flow will exceed 85 kcfs before the next STP forecast is issued, as determined by NWW Water Management” (Little Goose Section 2.3.3.7, page LGS-15).

The latest STP issued on April 5, predicted that Little Goose Dam inflow will exceed 85 kcfs on Saturday, April 9 and remain above that flow level until April 25 (17 days total). This means the SW configuration change should have already taken place.

**Type of outage required**

As per the 2016 FPP section 2.3.3.7b (b1), Little Goose staff will change SW crest configuration within 3 normal work days after RCC issues the teletype. The RCC teletype is expected to be issued April 8 (today), followed by positioning of the SW into low crest configuration on Monday, April 11.

During work to change the SW crest elevation, spill will be distributed in the remaining bays in the Alternate Uniform pattern, as revised for use while Bay 5 is out of service for repairs (see **Table LGS-11-TEMPORARY** below). Note that three bays will be out of service during this crest change operation (Bays 1, 2, 5). Bay 2 will be closed to ensure worker safety in adjacent Bay 1. Bay 5 is already closed as the gate braking system is out of service. After the SW crest change is completed, spill will be distributed in the SW-Lo pattern, as revised for Bay 5 OOS (see **Table LGS-8-TEMPORARY** below).

The SW will be changed back to High Crest when Little Goose inflow drops below 85 kcfs and is forecasted to remain below 85 kcfs for at least 7 consecutive days, in accordance with FPP section 2.3.3.7.b.3.

**Impact on facility operation**

Spillway bays 1 and 2 will be out of operation for the SW crest configuration change on Monday, April 11 for approximately 3 - 4 hours. SW will operate in low crest configuration once the work is completed. Bay 2 will also return to service once the work is completed.

**Dates of impacts/repairs**

The configuration change is expected to take place on Monday, April 11.

**Length of time for repairs**

Approximately 3 to 4 hours.

**Expected impacts on fish passage**

Impacts to both juvenile and adult fish are expected to be minimal as the outage duration is fairly short and the required spill volume will be routed through the spill bays remaining in service. The adult fishway and the juvenile bypass/collection system will continue to operate as usual.

**Comments from agencies**

**Final results**

Please email or call with questions or concerns.

Thank you,

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**Table LGS-8-TEMPORARY (revised April 1, 2016, for Bay 5 OOS). Little Goose Dam Spill Patterns with Spillway Weir in Low Crest (SW-Lo) Elevation 618 ft.**

| **Outflow a** | **Spill b** | | **Turbine Unit Outflow (kcfs) c** | | | | | | | **SW-Lo Spill Patterns - Gate Stops (#) per Spillbay** | | | | | | | | | **Comments (see footnotes)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **(kcfs)** | **(kcfs)** | **(%)** | **1 d** | **2** | **3** | **4** | **5** | **6** | **TOTAL** | **1 e** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **TOTAL** |
| 37.3 | 11.2 | 30.0% | 14.8 | 11.3 |  |  |  |  | 26.1 | SW-Lo |  |  |  | OOS |  |  |  | 0 |  |
| 43.2 | 13.0 | 30.0% | 17.5 | 12.7 |  |  |  |  | 30.2 | SW-Lo |  |  |  | OOS |  |  | 1 | 1 |  |
| 49.1 | 14.7 | 30.0% | 17.5 | 16.9 |  |  |  |  | 34.4 | SW-Lo | 1 |  |  | OOS |  |  | 1 | 2 |  |
| 55.3 | 16.6 | 30.0% | 16.1 | 11.3 | 11.3 |  |  |  | 38.7 | SW-Lo | 1 |  |  | OOS |  |  | 2 | 3 |  |
| 61.2 | 18.4 | 30.0% | 17.5 | 14.0 | 11.3 |  |  |  | 42.8 | SW-Lo | 1 |  | 1 | OOS |  |  | 2 | 4 |  |
| 67.0 | 20.1 | 30.0% | 17.5 | 17.5 | 11.9 |  |  |  | 46.9 | SW-Lo | 1 |  | 1 | OOS | 1 |  | 2 | 5 |  |
| 72.9 | 21.9 | 30.0% | 17.5 | 17.5 | 16.0 |  |  |  | 51.0 | SW-Lo | 1 | 1 | 1 | OOS | 1 |  | 2 | 6 |  |
| 78.8 | 23.6 | 30.0% | 17.5 | 12.6 | 11.3 | 13.8 |  |  | 55.2 | SW-Lo | 1 | 1 | 1 | OOS | 1 | 1 | 2 | 7 |  |
| 85.0 | 25.5 | 30.0% | 17.5 | 16.9 | 11.3 | 13.8 |  |  | 59.5 | SW-Lo | 2 | 1 | 1 | OOS | 1 | 1 | 2 | 8 |  |
| 91.5 | 27.4 | 30.0% | 17.5 | 17.5 | 15.2 | 13.8 |  |  | 64.0 | SW-Lo | 2 | 1 | 2 | OOS | 1 | 1 | 2 | 9 |  |
| 97.7 | 29.3 | 30.0% | 17.5 | 17.5 | 17.5 | 15.9 |  |  | 68.4 | SW-Lo | 2 | 1 | 2 | OOS | 2 | 1 | 2 | 10 |  |
| 104.1 | 31.2 | 30.0% | 17.5 | 16.5 | 11.3 | 13.8 | 13.8 |  | 72.9 | SW-Lo | 2 | 2 | 2 | OOS | 2 | 1 | 2 | 11 |  |
| 110.6 | 33.1 | 30.0% | 17.5 | 17.5 | 14.9 | 13.8 | 13.8 |  | 77.5 | SW-Lo | 2 | 2 | 2 | OOS | 2 | 2 | 2 | 12 |  |
| 117.2 | 35.1 | 30.0% | 17.5 | 17.5 | 17.5 | 15.8 | 13.8 |  | 82.1 | SW-Lo | 3 | 2 | 2 | OOS | 2 | 2 | 2 | 13 |  |
| 123.8 | 37.1 | 30.0% | 17.5 | 17.5 | 17.5 | 18.9 | 15.3 |  | 86.7 | SW-Lo | 3 | 3 | 2 | OOS | 2 | 2 | 2 | 14 |  |
| 130.4 | 39.1 | 30.0% | 17.5 | 17.5 | 14.9 | 13.8 | 13.8 | 13.8 | 91.3 | SW-Lo | 3 | 3 | 3 | OOS | 2 | 2 | 2 | 15 |  |
| 137.0 | 41.1 | 30.0% | 17.5 | 17.5 | 17.5 | 15.8 | 13.8 | 13.8 | 95.9 | SW-Lo | 3 | 3 | 3 | OOS | 3 | 2 | 2 | 16 |  |
| 143.6 | 43.1 | 30.0% | 17.5 | 17.5 | 17.5 | 18.9 | 15.3 | 13.8 | 100.5 | SW-Lo | 3 | 3 | 3 | OOS | 3 | 3 | 2 | 17 |  |
| 150.2 | 45.1 | 30.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 14.8 | 105.1 | SW-Lo | 3 | 3 | 3 | OOS | 3 | 3 | 3 | 18 |  |
| 156.3 | 47.1 | 30.1% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 4 | 3 | 3 | OOS | 3 | 3 | 3 | 19 |  |
| 158.3 | 49.1 | 31.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 4 | 4 | 3 | OOS | 3 | 3 | 3 | 20 |  |
| 160.3 | 51.1 | 31.9% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 4 | 4 | 4 | OOS | 3 | 3 | 3 | 21 |  |
| 162.2 | 53.0 | 32.7% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 4 | 4 | 4 | OOS | 4 | 3 | 3 | 22 |  |
| 164.2 | 55.0 | 33.5% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 4 | 4 | 4 | OOS | 4 | 4 | 3 | 23 |  |
| 166.2 | 57.0 | 34.3% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 4 | 4 | 4 | OOS | 4 | 4 | 4 | 24 |  |
| 168.1 | 58.9 | 35.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 5 | 4 | 4 | OOS | 4 | 4 | 4 | 25 |  |
| 170.1 | 60.9 | 35.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 5 | 5 | 4 | OOS | 4 | 4 | 4 | 26 |  |
| 172.0 | 62.8 | 36.5% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 5 | 5 | 5 | OOS | 4 | 4 | 4 | 27 |  |
| 174.0 | 64.8 | 37.2% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 5 | 5 | 5 | OOS | 5 | 4 | 4 | 28 |  |
| 176.0 | 66.8 | 37.9% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 5 | 5 | 5 | OOS | 5 | 5 | 4 | 29 |  |
| 177.9 | 68.7 | 38.6% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 5 | 5 | 5 | OOS | 5 | 5 | 5 | 30 |  |
| 179.9 | 70.7 | 39.3% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 6 | 5 | 5 | OOS | 5 | 5 | 5 | 31 |  |
| 181.9 | 72.7 | 40.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 6 | 6 | 5 | OOS | 5 | 5 | 5 | 32 |  |
| 183.8 | 74.6 | 40.6% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 6 | 6 | 6 | OOS | 5 | 5 | 5 | 33 |  |
| 185.8 | 76.6 | 41.2% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 6 | 6 | 6 | OOS | 6 | 5 | 5 | 34 |  |
| 187.8 | 78.6 | 41.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 6 | 6 | 6 | OOS | 6 | 6 | 5 | 35 |  |
| 189.7 | 80.5 | 42.4% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 6 | 6 | 6 | OOS | 6 | 6 | 6 | 36 |  |
| 191.7 | 82.5 | 43.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 7 | 6 | 6 | OOS | 6 | 6 | 6 | 37 |  |
| 193.6 | 84.4 | 43.6% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 7 | 7 | 6 | OOS | 6 | 6 | 6 | 38 |  |
| 195.6 | 86.4 | 44.2% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 7 | 7 | 7 | OOS | 6 | 6 | 6 | 39 |  |
| 197.5 | 88.3 | 44.7% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 7 | 7 | 7 | OOS | 7 | 6 | 6 | 40 |  |
| 199.5 | 90.3 | 45.3% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 7 | 7 | 7 | OOS | 7 | 7 | 6 | 41 |  |
| 201.4 | 92.2 | 45.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 7 | 7 | 7 | OOS | 7 | 7 | 7 | 42 |  |
| 203.4 | 94.2 | 46.3% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 8 | 7 | 7 | OOS | 7 | 7 | 7 | 43 |  |
| 205.3 | 96.1 | 46.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 8 | 8 | 7 | OOS | 7 | 7 | 7 | 44 |  |
| 207.3 | 98.1 | 47.3% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 8 | 8 | 8 | OOS | 7 | 7 | 7 | 45 |  |
| 209.2 | 100.0 | 47.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 8 | 8 | 8 | OOS | 8 | 7 | 7 | 46 |  |
| 211.2 | 102.0 | 48.3% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 8 | 8 | 8 | OOS | 8 | 8 | 7 | 47 |  |
| 213.1 | 103.9 | 48.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Lo | 8 | 8 | 8 | OOS | 8 | 8 | 8 | 48 |  |

**Table LGS-9-TEMPORARY (revised April 1, 2016, for Bay 5 OOS). Little Goose Dam Spill Patterns with Spillway Weir in High Crest (SW-Hi) Elevation 622 ft.**

| **Outflow a** | **Spill b** | | **Turbine Unit Outflow (kcfs) c** | | | | | | | **SW-Hi Spill Patterns - Gate Stops (#) per Spillbay** | | | | | | | | | **Comments (see footnotes)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **(kcfs)** | **(kcfs)** | **(%)** | **1 d** | **2** | **3** | **4** | **5** | **6** | **TOTAL** | **1 e** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **TOTAL** |
| 24.0 | 7.2 | 30.0% | 16.8 |  |  |  |  |  | 16.8 | SW-Hi |  |  |  | OOS |  |  |  | 0 |  |
| 26.5 | 9.0 | 33.9% | 17.5 |  |  |  |  |  | 17.5 | SW-Hi |  |  |  | OOS |  |  | 1 | 1 |  |
| 33.3 | 10.7 | 32.2% | 11.3 | 11.3 |  |  |  |  | 22.6 | SW-Hi | 1 |  |  | OOS |  |  | 1 | 2 |  |
| 42.0 | 12.6 | 30.0% | 17.5 | 11.9 |  |  |  |  | 29.4 | SW-Hi | 1 |  |  | OOS |  |  | 2 | 3 |  |
| 47.9 | 14.4 | 30.0% | 17.5 | 16.0 |  |  |  |  | 33.5 | SW-Hi | 1 |  | 1 | OOS |  |  | 2 | 4 |  |
| 53.7 | 16.1 | 30.0% | 15.0 | 11.3 | 11.3 |  |  |  | 37.6 | SW-Hi | 1 |  | 1 | OOS | 1 |  | 2 | 5 |  |
| 59.6 | 17.9 | 30.0% | 17.5 | 12.9 | 11.3 |  |  |  | 41.7 | SW-Hi | 1 | 1 | 1 | OOS | 1 |  | 2 | 6 |  |
| 65.5 | 19.6 | 30.0% | 17.5 | 17.0 | 11.3 |  |  |  | 45.8 | SW-Hi | 1 | 1 | 1 | OOS | 1 | 1 | 2 | 7 |  |
| 71.8 | 21.5 | 30.0% | 17.5 | 17.5 | 15.2 |  |  |  | 50.2 | SW-Hi | 2 | 1 | 1 | OOS | 1 | 1 | 2 | 8 |  |
| 78.1 | 23.4 | 30.0% | 17.5 | 12.1 | 11.3 | 13.8 |  |  | 54.7 | SW-Hi | 2 | 1 | 2 | OOS | 1 | 1 | 2 | 9 |  |
| 84.5 | 25.3 | 30.0% | 17.5 | 16.6 | 11.3 | 13.8 |  |  | 59.2 | SW-Hi | 2 | 1 | 2 | OOS | 2 | 1 | 2 | 10 |  |
| 90.8 | 27.2 | 30.0% | 17.5 | 17.5 | 14.7 | 13.8 |  |  | 63.5 | SW-Hi | 2 | 2 | 2 | OOS | 2 | 1 | 2 | 11 |  |
| 97.0 | 29.1 | 30.0% | 17.5 | 17.5 | 17.5 | 15.4 |  |  | 67.9 | SW-Hi | 2 | 2 | 2 | OOS | 2 | 2 | 2 | 12 |  |
| 103.8 | 31.1 | 30.0% | 17.5 | 16.3 | 11.3 | 13.8 | 13.8 |  | 72.65 | SW-Hi | 3 | 2 | 2 | OOS | 2 | 2 | 2 | 13 |  |
| 110.5 | 33.1 | 30.0% | 17.5 | 17.5 | 14.7 | 13.8 | 13.8 |  | 77.32 | SW-Hi | 3 | 3 | 2 | OOS | 2 | 2 | 2 | 14 |  |
| 117.0 | 35.1 | 30.0% | 17.5 | 17.5 | 17.5 | 15.6 | 13.8 |  | 81.9 | SW-Hi | 3 | 3 | 3 | OOS | 2 | 2 | 2 | 15 |  |
| 123.8 | 37.1 | 30.0% | 17.5 | 17.5 | 17.5 | 18.9 | 15.2 |  | 86.62 | SW-Hi | 3 | 3 | 3 | OOS | 3 | 2 | 2 | 16 |  |
| 130.3 | 39.1 | 30.0% | 17.5 | 17.5 | 14.8 | 13.8 | 13.8 | 13.8 | 91.2 | SW-Hi | 3 | 3 | 3 | OOS | 3 | 3 | 2 | 17 |  |
| 137.1 | 41.1 | 30.0% | 17.5 | 17.5 | 17.5 | 15.9 | 13.8 | 13.8 | 95.98 | SW-Hi | 3 | 3 | 3 | OOS | 3 | 3 | 3 | 18 |  |
| 143.9 | 43.1 | 30.0% | 17.5 | 17.5 | 17.5 | 18.9 | 15.6 | 13.8 | 100.8 | SW-Hi | 4 | 3 | 3 | OOS | 3 | 3 | 3 | 19 |  |
| 150.4 | 45.1 | 30.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 15.0 | 105.3 | SW-Hi | 4 | 4 | 3 | OOS | 3 | 3 | 3 | 20 |  |
| 156.3 | 47.1 | 30.1% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 4 | 4 | 4 | OOS | 3 | 3 | 3 | 21 |  |
| 158.2 | 49.0 | 31.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 4 | 4 | 4 | OOS | 4 | 3 | 3 | 22 |  |
| 160.2 | 51.0 | 31.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 4 | 4 | 4 | OOS | 4 | 4 | 3 | 23 |  |
| 162.2 | 53.0 | 32.7% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 4 | 4 | 4 | OOS | 4 | 4 | 4 | 24 |  |
| 164.1 | 54.9 | 33.5% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 5 | 4 | 4 | OOS | 4 | 4 | 4 | 25 |  |
| 166.1 | 56.9 | 34.3% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 5 | 5 | 4 | OOS | 4 | 4 | 4 | 26 |  |
| 168.0 | 58.8 | 35.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 5 | 5 | 5 | OOS | 4 | 4 | 4 | 27 |  |
| 170.0 | 60.8 | 35.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 5 | 5 | 5 | OOS | 5 | 4 | 4 | 28 |  |
| 172.0 | 62.8 | 36.5% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 5 | 5 | 5 | OOS | 5 | 5 | 4 | 29 |  |
| 173.9 | 64.7 | 37.2% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 5 | 5 | 5 | OOS | 5 | 5 | 5 | 30 |  |
| 175.9 | 66.7 | 37.9% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 6 | 5 | 5 | OOS | 5 | 5 | 5 | 31 |  |
| 177.9 | 68.7 | 38.6% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 6 | 6 | 5 | OOS | 5 | 5 | 5 | 32 |  |
| 179.8 | 70.6 | 39.3% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 6 | 6 | 6 | OOS | 5 | 5 | 5 | 33 |  |
| 181.8 | 72.6 | 39.9% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 6 | 6 | 6 | OOS | 6 | 5 | 5 | 34 |  |
| 183.8 | 74.6 | 40.6% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 6 | 6 | 6 | OOS | 6 | 6 | 5 | 35 |  |
| 185.7 | 76.5 | 41.2% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 6 | 6 | 6 | OOS | 6 | 6 | 6 | 36 |  |
| 187.7 | 78.5 | 41.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 7 | 6 | 6 | OOS | 6 | 6 | 6 | 37 |  |
| 189.6 | 80.4 | 42.4% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 7 | 7 | 6 | OOS | 6 | 6 | 6 | 38 |  |
| 191.6 | 82.4 | 43.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 7 | 7 | 7 | OOS | 6 | 6 | 6 | 39 |  |
| 193.5 | 84.3 | 43.6% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 7 | 7 | 7 | OOS | 7 | 6 | 6 | 40 |  |
| 195.5 | 86.3 | 44.1% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 7 | 7 | 7 | OOS | 7 | 7 | 6 | 41 |  |
| 197.4 | 88.2 | 44.7% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 7 | 7 | 7 | OOS | 7 | 7 | 7 | 42 |  |
| 199.4 | 90.2 | 45.2% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 8 | 7 | 7 | OOS | 7 | 7 | 7 | 43 |  |
| 201.3 | 92.1 | 45.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 8 | 8 | 7 | OOS | 7 | 7 | 7 | 44 |  |
| 203.3 | 94.1 | 46.3% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 8 | 8 | 8 | OOS | 7 | 7 | 7 | 45 |  |
| 205.2 | 96.0 | 46.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 8 | 8 | 8 | OOS | 8 | 7 | 7 | 46 |  |
| 207.2 | 98.0 | 47.3% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 8 | 8 | 8 | OOS | 8 | 8 | 7 | 47 |  |
| 209.1 | 99.9 | 47.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | SW-Hi | 8 | 8 | 8 | OOS | 8 | 8 | 8 | 48 |  |

**Table LGS-11-TEMPORARY (revised April 1, 2016, for Bay 5 OOS). Little Goose Dam ALTERNATE UNIFORM Spill Patterns for use during Spillway Weir Crest Change.**

| **Outflow a** | **Spill b** | | **Turbine Unit Outflow (kcfs) c** | | | | | | | **SW Crest Change Spill Patterns - Gate Stops (#) per Spillbay** | | | | | | | | | **Comments (see footnotes)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **(kcfs)** | **(kcfs)** | **(%)** | **1 d** | **2** | **3** | **4** | **5** | **6** | **TOTAL** | **1 e** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **TOTAL** |
| 11.3 | 0 | 0.0% | 11.3 |  |  |  |  |  | 11.3 | close | close |  |  | OOS |  |  |  | 0 |  |
| 13.1 | 1.8 | 13.5% | 11.3 |  |  |  |  |  | 11.3 | close | close |  |  | OOS |  |  | 1 | 1 |  |
| 14.8 | 3.5 | 23.7% | 11.3 |  |  |  |  |  | 11.3 | close | close | 1 |  | OOS |  |  | 1 | 2 |  |
| 18.1 | 5.4 | 30.0% | 12.7 |  |  |  |  |  | 12.7 | close | close | 1 |  | OOS |  |  | 2 | 3 |  |
| 23.9 | 7.2 | 30.0% | 16.7 |  |  |  |  |  | 16.7 | close | close | 1 | 1 | OOS |  |  | 2 | 4 |  |
| 26.4 | 8.9 | 33.8% | 17.5 |  |  |  |  |  | 17.5 | close | close | 1 | 1 | OOS | 1 |  | 2 | 5 |  |
| 36.1 | 10.8 | 30.0% | 14.0 | 11.3 |  |  |  |  | 25.3 | close | close | 2 | 1 | OOS | 1 |  | 2 | 6 |  |
| 42.4 | 12.7 | 30.0% | 17.5 | 12.2 |  |  |  |  | 29.7 | close | close | 2 | 2 | OOS | 1 |  | 2 | 7 |  |
| 48.3 | 14.5 | 30.0% | 17.5 | 16.3 |  |  |  |  | 33.8 | close | close | 2 | 2 | OOS | 1 | 1 | 2 | 8 |  |
| 55.0 | 16.5 | 30.0% | 15.9 | 11.3 | 11.3 |  |  |  | 38.5 | close | close | 3 | 2 | OOS | 1 | 1 | 2 | 9 |  |
| 61.5 | 18.5 | 30.0% | 17.5 | 14.2 | 11.3 |  |  |  | 43.0 | close | close | 3 | 2 | OOS | 1 | 1 | 3 | 10 |  |
| 67.9 | 20.4 | 30.0% | 17.5 | 17.5 | 12.5 |  |  |  | 47.5 | close | close | 3 | 2 | OOS | 1 | 2 | 3 | 11 |  |
| 74.3 | 22.3 | 30.0% | 17.5 | 17.5 | 17.0 |  |  |  | 52 | close | close | 3 | 2 | OOS | 2 | 2 | 3 | 12 |  |
| 80.9 | 24.3 | 30.0% | 17.5 | 14.0 | 11.3 | 13.8 |  |  | 56.61 | close | close | 3 | 3 | OOS | 2 | 2 | 3 | 13 |  |
| 87.6 | 26.3 | 30.0% | 17.5 | 17.5 | 12.5 | 13.8 |  |  | 61.32 | close | close | 3 | 3 | OOS | 2 | 3 | 3 | 14 |  |
| 94.3 | 28.3 | 30.0% | 17.5 | 17.5 | 17.2 | 13.8 |  |  | 66 | close | close | 3 | 3 | OOS | 3 | 3 | 3 | 15 |  |
| 100.8 | 30.3 | 30.0% | 17.5 | 17.5 | 17.5 | 18.0 |  |  | 70.5 | close | close | 4 | 3 | OOS | 3 | 3 | 3 | 16 |  |
| 107.4 | 32.2 | 30.0% | 17.5 | 17.5 | 12.5 | 13.8 | 13.8 |  | 75.14 | close | close | 4 | 3 | OOS | 3 | 3 | 4 | 17 |  |
| 114.1 | 34.2 | 30.0% | 17.5 | 17.5 | 17.3 | 13.8 | 13.8 |  | 79.9 | close | close | 4 | 4 | OOS | 3 | 3 | 4 | 18 |  |
| 120.5 | 36.2 | 30.0% | 17.5 | 14.2 | 11.3 | 13.8 | 13.8 | 13.8 | 84.36 | close | close | 4 | 4 | OOS | 3 | 4 | 4 | 19 |  |
| 127.1 | 38.1 | 30.0% | 17.5 | 17.5 | 12.5 | 13.8 | 13.8 | 13.8 | 88.94 | close | close | 4 | 4 | OOS | 4 | 4 | 4 | 20 |  |
| 133.6 | 40.1 | 30.0% | 17.5 | 17.5 | 17.1 | 13.8 | 13.8 | 13.8 | 93.55 | close | close | 5 | 4 | OOS | 4 | 4 | 4 | 21 |  |
| 140.1 | 42.1 | 30.0% | 17.5 | 17.5 | 17.5 | 18.0 | 13.8 | 13.8 | 98.05 | close | close | 5 | 4 | OOS | 4 | 4 | 5 | 22 |  |
| 146.7 | 44.0 | 30.0% | 17.5 | 17.5 | 17.5 | 18.9 | 17.4 | 13.8 | 102.6 | close | close | 5 | 5 | OOS | 4 | 4 | 5 | 23 |  |
| 153.2 | 46.0 | 30.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 16.9 | 107.2 | close | close | 5 | 5 | OOS | 4 | 5 | 5 | 24 |  |
| 157.1 | 47.9 | 30.5% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 5 | 5 | OOS | 5 | 5 | 5 | 25 |  |
| 159.1 | 49.9 | 31.4% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 6 | 5 | OOS | 5 | 5 | 5 | 26 |  |
| 161.1 | 51.9 | 32.2% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 6 | 5 | OOS | 5 | 5 | 6 | 27 |  |
| 163.0 | 53.8 | 33.0% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 6 | 6 | OOS | 5 | 5 | 6 | 28 |  |
| 165.0 | 55.8 | 33.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 6 | 6 | OOS | 5 | 6 | 6 | 29 |  |
| 167.0 | 57.8 | 34.6% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 6 | 6 | OOS | 6 | 6 | 6 | 30 |  |
| 168.9 | 59.7 | 35.4% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 7 | 6 | OOS | 6 | 6 | 6 | 31 |  |
| 170.9 | 61.7 | 36.1% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 7 | 6 | OOS | 6 | 6 | 7 | 32 |  |
| 172.8 | 63.6 | 36.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 7 | 7 | OOS | 6 | 6 | 7 | 33 |  |
| 174.8 | 65.6 | 37.5% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 7 | 7 | OOS | 6 | 7 | 7 | 34 |  |
| 176.7 | 67.5 | 38.2% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 7 | 7 | OOS | 7 | 7 | 7 | 35 |  |
| 178.7 | 69.5 | 38.9% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 8 | 7 | OOS | 7 | 7 | 7 | 36 |  |
| 180.6 | 71.4 | 39.5% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 8 | 7 | OOS | 7 | 7 | 8 | 37 |  |
| 182.6 | 73.4 | 40.2% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 8 | 8 | OOS | 7 | 7 | 8 | 38 |  |
| 184.5 | 75.3 | 40.8% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 8 | 8 | OOS | 7 | 8 | 8 | 39 |  |
| 186.5 | 77.3 | 41.4% | 17.5 | 17.5 | 17.5 | 18.9 | 18.9 | 18.9 | 109.2 | close | close | 8 | 8 | OOS | 8 | 8 | 8 | 40 |  |