

**OFFICIAL COORDINATION REQUEST FOR  
NON-ROUTINE OPERATIONS AND MAINTENANCE**

**COORDINATION TITLE-** 15 LWG 017 RSW Operations on 16 July 2015

**COORDINATION DATE-** 13 July 2015

**PROJECT-** Lower Granite Dam

**RESPONSE DATE** -July 14, 2015

**Description of the problem:** In most years, the RSW would be in operation at this time and this request would not be necessary. The RSW is currently closed in support of uniform spill and Unit 1 (fixed blade operation) to regulate Lower Granite tailrace temperatures and flow patterns. An onsite project tour of fish passage operations and improvements to familiarize the judge reviewing FCRPS litigation is planned for this date and time with operation of the RSW being a critical component for this tour.

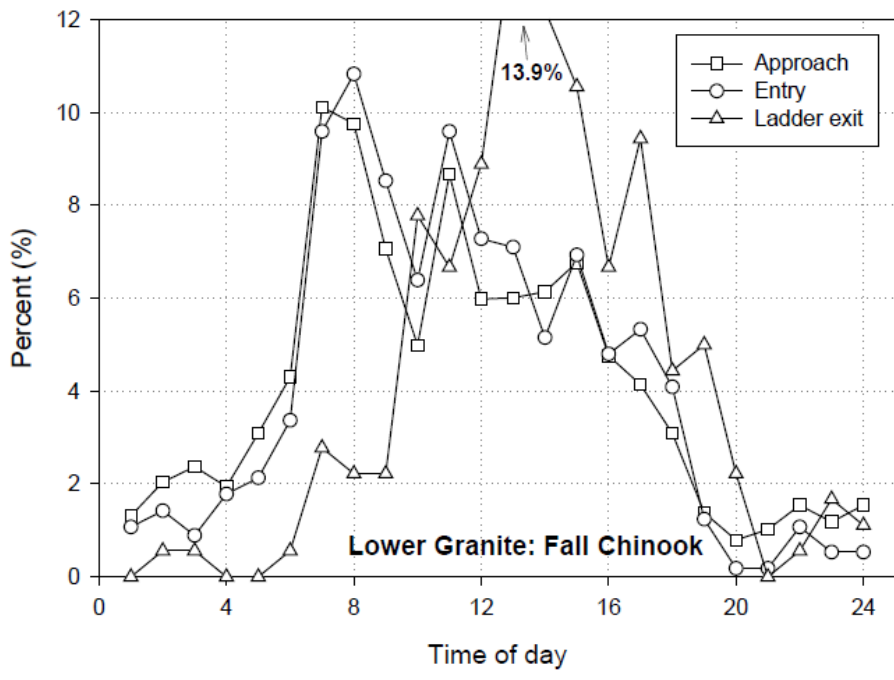
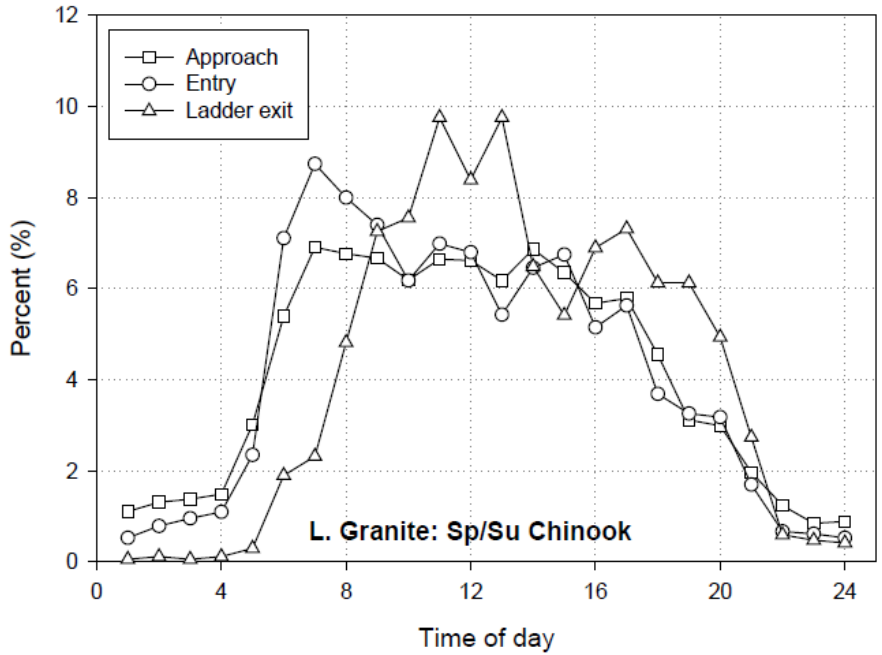
**Type of outage required:** No outage is being requested, only a change in spill operation for approximately 60 minutes between 1200 and 1400 hours on July 16. The appropriate spill pattern from Table LWG-12 Lower Granite Dam Summer Spill Pattern for Fish Passage (with RSW operating at Pool elevation 734 feet) will be utilized. Following the RSW operation, spill will revert to the uniform spill. No change in the volume of spill is planned during this operation.

**Impact on facility operation:** None. The adult and juvenile fishways and will remain in service. Adult fish counts will continue as will the collection of juvenile fish for transport.

**Dates of impacts/repairs:** July 16, 2015 between the hours of 1200 and 1400.

**Length of time:** One hour.

**Expected impacts on fish passage:** Because the duration of RSW operation is for 1 hour, the impacts are expected to be minimal. The operation is scheduled during times of relatively low adult passage (see diurnal charts below). Adult steelhead numbers are relatively low due to warm water temperatures, with peak adult numbers expected in September.



Impacts on juvenile fish are also expected to be minimal as most juvenile passage takes place at night. Since July 1, over 99% of the juvenile fish collected for transport at Lower Granite Dam has been clipped and unclipped juvenile subyearling Fall Chinook. Collection for fish transport will continue as usual. RSW operation may affect the numbers of juvenile fish collected versus the number of juvenile spilled. However, the number of affected juvenile fish is expected to be small as the RSW is being operation for a very short period of time.

### Juvenile Fish Collection at Lower Granite Dam July 1 – 13, 2015

Date	Daily Number of Fish Collected									Daily Total
	Yearling Chinook		Subyearling Chinook		Steelhead		Sockeye/Kokanee		Coho	
	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped		
1-Jul	0	0	200	2,020	40	0	0	0	20	2,280
2-Jul	0	0	180	2,380	0	0	0	0	0	2,560
3-Jul	0	0	120	3,260	20	0	0	0	0	3,400
4-Jul	0	0	120	2,640	20	0	0	0	0	2,780
5-Jul	0	0	80	1,960	40	0	0	0	0	2,080
6-Jul	0	0	220	2,680	40	20	0	20	0	2,980
7-Jul	0	0	120	4,520	20	20	0	0	0	4,680
8-Jul	0	0	500	6,450	50	50	0	0	0	7,050
9-Jul	0	0	250	4,200	0	0	0	0	0	4,450
10-Jul	0	0	150	3,500	0	0	0	0	0	3,650
11-Jul	0	0	180	8,080	0	0	0	0	0	8,260
12-Jul	0	0	200	11,100	0	0	0	0	0	11,300
13-Jul	0	0	100	6,150	0	0	0	0	0	6,250
Sums	0	0	2,420	58,940	230	90	0	20	20	61,720
Percent	0.0	0.0	3.9	95.5	0.4	0.1	0.0	0.0	0.0	

### Comments from agencies:

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

From: Bill Hevlin - NOAA Federal [mailto:bill.hevlin@noaa.gov]

Sent: Tuesday, July 14, 2015 9:10 AM

To: Bailey, John C NWW; Setter, Ann L NWW

Cc: Hilt, Richard NWW; Ritchie Graves - NOAA Federal; Paul Wagner; Trevor

Conder - NOAA Federal; Bill Hevlin - NOAA Federal

Subject: [EXTERNAL] Re:

John,

Thank you for coordinating with us on the Corps' plan to operate the RSW at Lower Granite for one hour between noon and 2 pm on Thursday July 16, 2015. We understand the Corps is required to do this for a site visit of the project that day. You understand that the current operation of the powerhouse and spillway at Lower Granite is being directed by a Snake River adult sockeye passage emergency due to the higher than normal temperatures and low river flow in the Basin. The current emergency operation does not include operation of the RSW. While past information on sockeye passage at Lower Granite suggests that the passage rate is reduced in the early afternoon, their past behavior may not be indicative of their behavior in the current conditions of low river flow and high water temperature.

To stimulate sockeye passage in the ladder, and thereby provide sockeye to the trap for transport to the hatchery, the Corps is currently operating unit one 24 hours a day, with reduced deep spill and the RSW closed. Under these current conditions, we believe this operational configuration will provide the best passage conditions for adult sockeye. Hence, we recommend that unit one remain operating during this short duration opening of the RSW, and that the time period of the opening be minimized. Please contact me if you have any questions or concerns with our comments on this.

Bill Hevlin  
Senior Fishery Biologist  
NOAA Fisheries

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

From: Hilt, Richard NWW  
Sent: Tuesday, July 14, 2015 11:01 AM  
To: Bill Hevlin - NOAA Federal; Bailey, John C NWW; Setter, Ann L NWW  
Cc: Ritchie Graves - NOAA Federal; Paul Wagner; Trevor Conder - NOAA Federal  
Subject: RE: [EXTERNAL] Re: (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Bill,

I can make sure BPA and RCC are aware of the expected operation and can be sure that we do not run out of water to support both the RSW operation with the continued operation of Unit 1. Based on the latest predicted daily average flow, we should have a daily average of about 27 Kcfs of flow. If Unit 1 us using 18-18.5 K, we should have an average of 8.5 to 9 K left for spill.

The RSW uses about 6.8 K so we should not really see any impact. Our thumb rule for change in forebay elevation is about 11K differential over 1 hour changes our elevation about 0.1 feet.

Respectfully,

Rich Hilt

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

From: Bailey, John C NWW  
Sent: Wednesday, July 15, 2015 3:34 PM  
To: Baus, Douglas M NWD; Wright, Lisa NWD  
Cc: Hilt, Richard NWW; Moody, Gregory P NWW  
Subject: RSW Operations at Lower Granite on Thursday, July 16

Doug & Lisa:

We need a teletype issued for the operation of the Lower Granite RSW for approximately 60 minutes on July 16 (tomorrow) between 1200 and 1400 hours. No outage is being requested, only a change in spill operation for approximately 60 minutes between 1200 and 1400 hours on July 16. The appropriate spill pattern from Table LWG-12 Lower Granite Dam Summer Spill Pattern for Fish Passage (with RSW operating at Pool elevation 734 feet) will

be utilized. Following the RSW operation, spill will revert to the uniform spill. No change in the volume of spill is planned during this operation.

John B.

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

From: Wright-Lisa@rwcds1.nwp.usace.army.mil [mailto:Wright-Lisa@rwcds1.nwp.usace.army.mil]  
Sent: Wednesday, July 15, 2015 4:31 PM  
Subject: CBT Msg: Lower\_Granite\_Temporary\_RSW\_Operation\_July\_16 sent at Wed Jul 15 16:30:42 2015

Sent to: SN  
XX  
LWG R 071515 1630 SN MCN IHR LMN LGS LWG BPA BPC NPD NPC NPW

ATTENTION: LOWER GRANITE AND BPA

SUBJECT: TEMPORARY RSW OPERATION

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REFERENCE CBT #1: LWG R 033115 1425 FOP SPRING AND SUMMER  
SPILL FOR FISH PASSAGE

REFERENCE CBT #2: LWG R 071315 1501 MODIFIED UNIT PRIORITY

REFERENCE CBT #3: LWG R 070815 1132 CLOSE RSW  
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1. EFFECTIVE WEDNESDAY, JULY 16, BETWEEN THE HOURS OF 1200 AND 1400, OPERATE THE REMOVABLE SPILLWAY WEIR (RSW) IN SPILLBAY 1 FOR UP TO A TOTAL DURATION OF 60 MINUTES.

2. RICH HILT, LOWER GRANITE DAM CHIEF OF OPERATIONS, WILL NOTIFY THE CONTROL ROOM WHEN TO OPEN AND CLOSE THE RSW.

3. AT ALL TIMES, MAINTAIN THE SPILL RATE IN ACCORDANCE WITH THE 2015 FISH OPERATIONS PLAN (FOP), AS DEFINED IN REFERENCE CBT #1. CONTINUE OPERATING UNITS IN PRIORITY ORDER DEFINED IN REFERENCE CBT #2.

4. UPON COMPLETION OF THIS OPERATION, CLOSE THE RSW AND RESUME OPERATING IN ACCORDANCE WITH REFERENCE CBT #3 AND IMPLEMENT PATTERNS DEFINED IN THE 2015 FISH PASSAGE PLAN (FPP) TABLE LWG-9 FOR SPILL WITH NO RSW.

5. THE INTENT OF THIS OPERATION IS TO OPERATE THE RSW DURING A TOUR OF THE PROJECT BY HONORABLE JUDGE MICHAEL H. SIMON OF THE OREGON U.S. DISTRICT COURT.

6 PLEASE REFER TO THE CURRENT ONLINE VERSION OF THE 2015 FPP AND FOP, AVAILABLE AT: <http://www.nwd-wc.usace.army.mil/tmt/documents/fpp/2015/>

7. THIS OPERATION WAS REQUESTED BY JOHN BAILEY (COE-NWW) AND COORDINATED WITH SCOTT BETTIN (BPA); RICH HILT, DEAN CARUSO (COE-LWG); LISA WRIGHT, DOUG BAUS (COE-RCC); AND WITH THE REGION VIA FPOM MEMO OF COORDINATION (MOC) 15LWG017 EMAILED ON JULY 13, 2015.

8. RCC POINT OF CONTACT IS LISA WRIGHT -

OFFICE: (503) 808-3943; CELL: (503) 716-6598.  
ALTERNATE RCC POINT OF CONTACT IS DOUG BAUS -  
OFFICE: (503) 808-3995; HOME: (503) 351-3692.

LISA WRIGHT  
CENWD-PDW-RC

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**Final results:**

RSW operated as described in above CBT message. No further comments received following temporary RSW operation.

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Please email or call with questions or concerns.

Thank you,

John Bailey  
Fishery Biologist  
US Army Corps of Engineers  
201 North Third Avenue  
Walla Walla, WA 99362-1876  
Phone: 509-527-7123  
Email: [john.c.bailey@usace.army.mil](mailto:john.c.bailey@usace.army.mil)