

SYSTEM OPERATIONAL REQUEST: #99-18

- *The following State and Federal Salmon Managers have participated in the preparation of this SOR: Oregon Department of Fish & Wildlife, U.S. Fish & Wildlife Service, Washington Department of Fish and Wildlife, National Marine Fisheries Service and Columbia River Inter-Tribal Fish Commission.*

TO:

Brigadier General Strock	COE-NPD
William Branch	COE-Water Management
Cindy Henriksen	COE-RCC
Bolyvong Tanovan	COE-RCC
Doug Arndt	COE-P
Col. R. Slusar	COE-Portland District
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Steve Clark	USBR-Boise Acting Regional Director
Judith Johansen	BPA-Administrator
Greg Delwiche	BPA-PG-5

Marvin S. Yoshinaka

FROM: Marv Yoshinaka, Chairperson, Salmon Managers

DATE: July 20, 1999

SUBJECT: Snake and Columbia River Flow Augmentation for the week ending August 1, 1999

SPECIFICATIONS:

- Maintain Dworshak outflow at 14 kcfs and 50 °F temperature for flow augmentation in the Snake River and temperature control.
- Maintain Brownlee outflow at a rate of inflow plus 1.22 foot daily draft, which is the average daily draft rate over the past 6 days.
- Maintain a 200 kcfs flow target at McNary, without the 4-foot draft of Grand Coulee, displayed in the SSARR of July 20, 1999.
- Implement a flat spill pattern at McNary Dam at night for two nights to observe the resultant effect on dissolved gas levels.

JUSTIFICATION:

Based on current sampling, historic sub-yearling passage timing and travel time data sub-yearling fall chinook are present in large numbers in both the Snake and the lower Columbia rivers. Results of research on sub-yearling passage has shown that increased flow and decreased water temperature results in improved passage conditions and survival for sub-yearling chinook. In the past week, sub-yearling passage indices at Lower Granite Dam have increased from 973 per day to over 3,000 per day. At Lower Monumental the passage index has increased to 5,724 per day.

Note: State of Idaho does not support SOR 99-18 because economic and recreational impacts have not been addressed.