

SYSTEM OPERATIONAL REQUEST: 99-C1

TO: Brigadier General Griffin COE-NWD

William Branch COE-NWD-NP-Water Management

Cindy Henriksen COE-NWD-NP-WM-RCC

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Eldon Landin Douglas County PUD

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Don Goddard Grant County PUD

FROM: Kyle Martin, Mainstem Hydrologist, CRITFC Hydro Program

DATE: March 24, 1999

SUBJECT: Priest Rapids and FCRPS Operations to protect emergent Hanford Reach chinook.

SPECIFICATIONS:

1. Maintain a steady flow of at least 120 kcfs day average out of Priest Rapids from March 25 - 31, 1999. Assumes a daily average outflow of at least 115 kcfs from Grand Coulee, inflows ~100 kcfs, and a draft from 1250 ft. to 1247 ft.
2. Maintain a steady flow of at least 130 kcfs day average out of Priest Rapids from April 1 - 14, 1999. Assumes a daily average outflow of at least 125 kcfs from Grand Coulee, inflows ~90-100 kcfs, and a draft from 1247 ft to 1233 ft.
3. Maintain a steady flow of at least 135 kcfs day average out of Priest Rapids from April 15 - 21, 1999. Assumes a daily average outflow of at least 130 kcfs from Grand Coulee, inflows ~105 kcfs, and a draft from 1233 ft to 1226.5 ft.
4. Maintain a steady flow of at least 140 kcfs day average out of Priest Rapids from April 22 - 29, 1999. Assumes a daily average outflow of at least 135 kcfs from Grand Coulee, inflows ~115 kcfs,

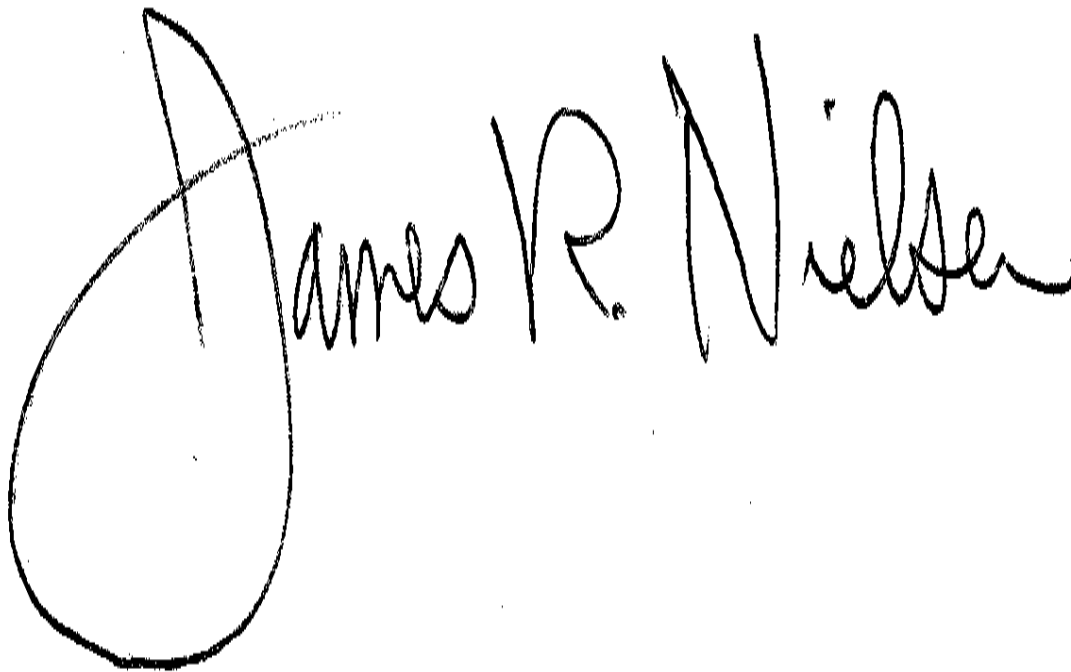
and a draft from 1226.5 ft. to 1221.5 ft.

5. Limit hourly and daily fluctuations to plus or minus 10 kcfs of previous daily average outflow.

JUSTIFICATION:

This SOR seeks to maintain, and slowly increase, *minimum* stable flows in the Hanford Reach to avoid stranding of emergent fall chinook fry, while simultaneously seeking to meet the NMFS Biological Opinion flows and achieve the April 30<sup>th</sup> Grand Coulee flood control pool elevation goal without wild swings in pool elevations. Minimization of power peaking is critical for this operation. Forecasted Grand Coulee inflows from the March 16<sup>th</sup>, 1999 CWS-SSARR run have been shaved by 5-10 kcfs to account for the decrease of inflows due to anticipated drying, minimal snow-melt conditions over the next two weeks, based on NOAA-NWS guidance. If this SOR cannot be accommodated, CRITFC would like the reasons in a detailed written response.

Attachment

A handwritten signature in black ink that reads "James R. Nielsen". The signature is written in a cursive style with a large, looped initial "J".