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**From:** Joe Heublein - NOAA Federal <joe.heublein@noaa.gov>  
**Sent:** Tuesday, June 4, 2019 9:42 AM  
**To:** Naseem Alston - NOAA Federal; Brian Ellrott  
**Subject:** Re: Folsom Water Control Manual

Hi Naseem,

Here's some specific info from the Folsom water control manual BO ITS for the baseline-

'The CCV steelhead egg incubation period starts on January 1st and ends on May 31st of each year.' 'With language included in the proposed action to limit the occurrence of flows greater than 30,000 cfs (which was not included in the modeling), the expectation is that not more than 6 occurrences of flows exceeding 30,000 cfs would occur in a 10 year period. Based on this information and the information in the Effects of the Action section, NMFS has identified that the level of anticipated take will be exceeded if more than 6 flow events exceeding 30,000 cfs occur during the steelhead incubation period during rolling 10-year periods. The 10-year periods shall begin from the issuance of this biological opinion. Rolling 10-year periods will start with years 1 through 10, then years 2 through 11, then years 3 through 12, etc.'

-Joe

On Mon, Jun 3, 2019 at 5:51 PM Naseem Alston - NOAA Federal <[naseem.alston@noaa.gov](mailto:naseem.alston@noaa.gov)> wrote:  
thanks Joe, I think that all makes sense.

Keep in mind - and please pass along - if we would be including take for any new (not consulted on) activities. Or if we would still only be considering them at a framework-level (not having enough details)

also, if there is anything specific that could/should be added to baseline - let's do that: (annual?) redd scour

Naseem O. Alston  
ESA-Section 7 Coordinator/Fish Biologist  
NOAA Fisheries West Coast Region  
U.S. Department of Commerce  
California Central Valley Office  
Sacramento, CA  
(916)930-3655  
<http://www.westcoast.fisheries.noaa.gov/>

On Mon, Jun 3, 2019 at 4:13 PM Joe Heublein - NOAA Federal <[joe.heublein@noaa.gov](mailto:joe.heublein@noaa.gov)> wrote:  
Thanks Naseem,

Couple outstanding questions from the latest BOR review of Am R effects-

I scanned through the Folsom water control manual BO and it covers take from high flows (redd scour) but does not cover take associated with other operations. Quickest way to address this would be to delete redd

scour from the American R effects section (mentioned once) and the American R portions of the steelhead I&S (mentioned a few times). We can do that in our next revision.

The Folsom water control manual includes a description of down ramping rates for higher flows-

'Down ramping rates incorporated into the updated Folsom WCM in a release range of 8,000 cfs to 160,000 cfs, flows will not decrease by more than 10,000 cfs over any 2-hour period.'

Ramping under lower flow ranges isn't described in the Folsom control manual or the BA so our use of historical flow fluctuations was probably appropriate for analyzing effects of American R flow fluctuations in the PA.

-Joe

On Sat, Jun 1, 2019 at 11:35 AM Naseem Alston - NOAA Federal <[naseem.alston@noaa.gov](mailto:naseem.alston@noaa.gov)> wrote:  
just want to throw out there, if we are making changes about something already consulted on, and in the baseline, but they are committing to continuing it/supporting it - the language in the effects is:  
we are analyzing this commitment/support at the framework-level, continuing this action will result in...  
(specific benefits? impacts?)

Naseem O. Alston  
ESA-Section 7 Coordinator/Fish Biologist  
NOAA Fisheries West Coast Region  
U.S. Department of Commerce  
California Central Valley Office  
Sacramento, CA  
(916)930-3655  
<http://www.westcoast.fisheries.noaa.gov/>

On Fri, May 31, 2019 at 6:13 PM Brian Ellrott - NOAA Federal <[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)> wrote:  
"More importantly, if the new water control manual covers take associated with flood management should we remove redd dewatering/stranding from the effects and add it to baseline/not consulted on?" [If the answer is Yes, is the updating just deleting things, or more complicated?](#)

On Fri, May 31, 2019 at 4:07 PM Joe Heublein - NOAA Federal <[joe.heublein@noaa.gov](mailto:joe.heublein@noaa.gov)> wrote:  
Hi Howard,

Kristin from reclamation is going to add a couple sentences on this in their surgical edit of the American R effects. We have one reference to 'NMFS 2018' but nothing in the bibliography so that may have something to do with the water control manual BO. Kristin mentioned that looking at historic flow fluctuations is not appropriate with construction of the new spillway but not sure how to characterize that.

More importantly, if the new water control manual covers take associated with flood management should we remove redd dewatering/stranding from the effects and add it to baseline/not consulted on? We'll have to update a bunch of stuff if it's removed from the effects analysis

Thanks

Joe

On Fri, May 31, 2019 at 12:53 PM Howard Brown - NOAA Federal <[howard.brown@noaa.gov](mailto:howard.brown@noaa.gov)> wrote:

Joe,

Here is the location of the flood biop. It's long, so I would look at the integration and synthesis and conditions.

M:\SA-FINAL Biological Opinions\2018 - 2018-10-16-Folsom-Dam-And-Lake-Water-Control-Manual-BO-Signed

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**Howard L. Brown**

*Policy Advisor*

*NOAA Fisheries, West Coast Region*

*U.S. Department of Commerce*

(916) 930-3608

[Howard.Brown@noaa.gov](mailto:Howard.Brown@noaa.gov)



[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)

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Joe Heublein

California Central Valley Office

650 Capitol Mall, Suite 5-100

Sacramento, CA 95814

Office: 916-930-3719

FAX: 916-930-3629

[joe.heublein@noaa.gov](mailto:joe.heublein@noaa.gov)

[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)



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**Brian Ellrott**

*Central Valley Salmonid Recovery Coordinator*

*NOAA Fisheries West Coast Region*

*U.S. Department of Commerce*

Mobile: 916-955-7628

Office: 916-930-3612

[brian.ellrott@noaa.gov](mailto:brian.ellrott@noaa.gov)

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Joe Heublein  
California Central Valley Office  
650 Capitol Mall, Suite 5-100  
Sacramento, CA 95814  
Office: 916-930-3719  
FAX: 916-930-3629  
[joe.heublein@noaa.gov](mailto:joe.heublein@noaa.gov)  
[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)



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Joe Heublein  
California Central Valley Office  
650 Capitol Mall, Suite 5-100  
Sacramento, CA 95814  
Office: 916-930-3719  
FAX: 916-930-3629  
[joe.heublein@noaa.gov](mailto:joe.heublein@noaa.gov)  
[www.westcoast.fisheries.noaa.gov](http://www.westcoast.fisheries.noaa.gov)

