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**From:** Roberts, Jason@Wildlife <Jason.Roberts@wildlife.ca.gov>  
**Sent:** Tuesday, January 3, 2017 8:18 AM  
**To:** Swart, Brycen@noaa.gov  
**Cc:** Garwin.Yip@noaa.gov  
**Subject:** RE: With attachment - Shasta RPA Adjustments Managment Team Meeting Today

Just a reminder as I read Reclamation's edits (which are troubling)

Action I.2.4 2)a.i.1. would lead to potential cohort failure. When the releases are very warm the fish all spawn above Highway 44, we would by default be allowing very warm Keswick releases due to the very little warming between Keswick and Highway 44.

**From:** ARROYAVE, PABLO [mailto:parroyave@usbr.gov]  
**Sent:** Thursday, December 22, 2016 3:08 PM  
**To:** Rea, Maria@NOAA  
**Cc:** Michelle Banonis; RMILLIGAN@usbr.gov; Rieker, Jeffrey@USBR; JAIsrael@usbr.gov; David Mooney; Murillo, D@USBR; Barry Thom - NOAA Federal; Garwin.Yip@noaa.gov; Swart, Brycen@noaa.gov; Christina Durham; Paul Souza; Castleberry, Dan@fws; Bonham, Chuck@Wildlife; Wilcox, Carl@Wildlife; Roberts, Jason@Wildlife  
**Subject:** Re: With attachment - Shasta RPA Adjustments Managment Team Meeting Today

Good afternoon Maria: In response to the December 15, 2016 draft you provided on the use of the adaptive management provision outlined in the 2009 NMFS Biological Opinion RPA Section 11.2.1.2, please see the two attached documents. The first encapsulates our edits to the December 15<sup>th</sup> RPA revisions and the second is an overview of our comments. Of note, which is also captured in the Next Steps section of our comment summary, is that that we believe our edits to your proposal are something we could agree to in order to work towards the NMFS-desired timeline of January 2017. In addition, we can also work with you to develop a timeline for a phased approach that establishes a plan on how to address the other items included in your December 15<sup>th</sup> revisions. I look forward to discussing next steps. Thanks

Pablo R. Arroyave  
Deputy Regional Director  
Bureau of Reclamation  
Mid-Pacific Region  
2800 Cottage Way  
Sacramento, CA 95825  
Tel: (916) 978-5013

On Thu, Dec 15, 2016 at 2:49 PM, Maria Rea - NOAA Federal <[maria.rea@noaa.gov](mailto:maria.rea@noaa.gov)> wrote:

With attachment this time.

Maria Rea  
Assistant Regional Administrator, California Central Valley Office  
NOAA Fisheries West Coast Region

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On Thu, Dec 15, 2016 at 2:15 PM, Maria Rea - NOAA Federal <[maria.rea@noaa.gov](mailto:maria.rea@noaa.gov)> wrote:  
Pablo, Michelle, Ron et al -

Here is the first full draft of the Shasta RPA adjustment for your review and comment. I believe it reflects a lot of our joint discussions and areas of agreement, but I also recognize that putting general areas of agreement into RPA language requires some discretion on our part. In order to stay on schedule, which includes our ability to turn around a second draft in response to your comments, we will need your comments by Wednesday December 21st. Please note that we are waiting on some additional work to finalize some of the numbers, so numbers may change on our end.

Again, I want to emphasize that we intend this adjustment to be part of a larger phased approach, to put this in place now, continue to discuss it with you, and learn from the operators what issues arise in operating to it, be open to discussion with stakeholders and outside experts, continue work on the modeling and monitoring plan, and then true up in a more final version in either a subsequent adjustment of the CVP/SWP long-term ops consultation.

I see this as part of a larger movement towards incorporating science-based adaptive management principles into our Biops and your operations. I am cc'ing DFW and FWS as co-managers of winter-run Chinook.

We are targeting January 12th for final roll-out.

I look forward to your comments,  
Maria

Maria Rea  
Assistant Regional Administrator, California Central Valley Office  
NOAA Fisheries West Coast Region  
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On Thu, Dec 15, 2016 at 10:07 AM, PABLO ARROYAVE <[parroyave@usbr.gov](mailto:parroyave@usbr.gov)> wrote:  
Thanks, I'm thinking we will need a full week to comment at least.

Sent from my iPhone

On Dec 15, 2016, at 10:04 AM, Maria Rea - NOAA Federal <[maria.rea@noaa.gov](mailto:maria.rea@noaa.gov)> wrote:

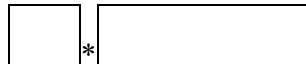
OK with me to cancel. Per my earlier discussions with Pablo, I'll be sending out a track changes version of the Shasta RPA adjustment today, with comments due back from Reclamation next Wednesday. I'd suggest a call perhaps on Monday between Garwin and Jeff, once you've had a chance to review the draft.  
- Maria

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On Thu, Dec 15, 2016 at 9:59 AM, Banonis, Michelle <[mbanonis@usbr.gov](mailto:mbanonis@usbr.gov)> wrote:  
Hi All -

It appears that Pablo, CVO, and I will all be in parallel meetings today that we cannot reschedule. Can we either reschedule the Shasta RPA meeting or cancel and pick up later? Please let me know what works. Apologies for the conflicts.

Michelle

**Michelle Banonis, Esq., Bay Delta Office Area Manager**

**Bureau of Reclamation**

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