
From: Garwin Yip - NOAA Federal <garwin.yip@noaa.gov>
Sent: Thursday, October 13, 2016 8:20 PM
To: 'Maria.rea@noaa.gov'
Subject: Fwd: Concepts on RPA Adjustments process
Attachments: 2016-10-12 ReclamationConcepts.pdf; Attachment1_CommentsonBackground.pdf; Attachment2_ReformattedBackgroundSection.pdf

This afternoon's meeting included Michelle, Janice, Dave M., Jeff R., Liz, Thuy, Brycen, and me.

We walked through Reclamation's Concepts for Near-Term Adjustments from their handout, where Jeff said Reclamation agrees with NMFS on most of the adjustments, except for RPA Actions I.2.3 and I.2.4, where Reclamation said a 55 F 7 DADM and specific end of month Shasta storages exceeded minor adjustments, may have system-wide effects, and would be more appropriate to consider in the reinitiation. I turned their attention to lesson learned #18, specifically, "California WaterFix modeling indicates worsening of temperature effects..." and suggested that end of month storages and 55 F 7DADM are the meat of the adjustments, and without them, we'll just be nibbling around the edges.

Reclamation said they don't want operations to be hardwired, that we should just tell them what we want biologically, and they should have the flexibility to operate any which way they want in order to meet it. We discussed the following:

-- I indicated that we essentially have something comparable to 55 F 7DADM if we impose a 56 F DAT way downstream like Bend Bridge, but that's not consistent with a LOBO recommendation, best available science, and could introduce other variables to meeting water temperatures (e.g., tributary side flows) between the redd location and the temperature compliance point further downstream. If we had to pick a DAT, that would be something like 53 F where the redds are, but that doesn't address the best available scientific metric of 7DADM.

-- Reclamation said putting a cap on releases would in effect result in higher releases of cold water, which is counterproductive to what we want. I suggested that the SWFSC's RAFT model indicates not much temperature reduction with considerably higher releases. Reclamation said that was based on a model, vs. Reclamation's actual operations and experience.

-- Reclamation said what can get us the desired water temperature is to be able to access the upper gates early in the season, which I said is really a minimum Shasta volume that needs to be specified.

-- The issue of Wilkins Slough at the antiquated 5,000 cfs came up, where our idea of adjustment said Reclamation was able to operate to 3,800 cfs all summer. Reclamation said there are all kinds of reasons to operate to 5,000 cfs, including providing for SRSC diversions, Delta outflow and salinity, exports, etc. I said that some transparency in justification would go a long way, rather than just saying they need to meet the minimum 5,000 cfs Corps requirement. That might not change anything, but would help in understanding operations.

Next steps:

-- Next week's management team meeting to resolve our basic differences in marching orders for the adjustments effort.

-- I will talk to Cathy and Ryan about the CWF analysis (e.g., where the Shasta analysis came from) and next steps in that analysis.

-Garwin-

Garwin Yip

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From: **Maria Rea - NOAA Federal** <maria.rea@noaa.gov>
Date: Thu, Oct 13, 2016 at 12:27 PM
Subject: Re: Concepts on RPA Adjustments process
To: Garwin Yip - NOAA Federal <garwin.yip@noaa.gov>, Aimee Moore <aimee.moore@noaa.gov>

Agreed. I was very disappointed to see their comments.
Aimee. Can you please see if I can get a call with Pablo tomorrow ?

Sent from my iPhone

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From: **Garwin Yip - NOAA Federal** <garwin.yip@noaa.gov>
Date: Thu, Oct 13, 2016 at 11:43 AM
Subject: Re: Concepts on RPA Adjustments process
To: "Marie.rea@noaa.gov" <Marie.rea@noaa.gov>
Cc: "Brycen.Swart@noaa.gov" <Brycen.Swart@noaa.gov>

Maria,

Did you scan through the attached?

I called Jeff R. this morning and mentioned a few things:

- The lessons learned were shared with Ron and he didn't appear to have any consternations over them (is that true?).
- Reclamation's comments on the lessons learned and suggestions for adjustments seem to set us back, rather than move us forward together.
- Reclamation didn't provide any feedback on the timeline.
- I asked how Reclamation's suggestions mesh with our outline, and he said the adjustments they were thinking were pretty much limited to changes to the various teams. He said any changes to temperature metric (i.e., 55 F 7DADM vs. 56 F DAT) or Shasta storage requirements would require more time and effort than we have, and would have system-wide ramifications that need to be considered and modeled carefully.

-- If/Since we have basic disagreements on lessons learned and what can/should be done with the adjustments, we need to elevate these issues to Pablo and you to resolve once and for all so we can actually make some progress.

We'll see what happens at this afternoon's technical meeting.

-Garwin-

Garwin Yip

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From: **Rieker, Jeffrey** <jrieker@usbr.gov>

Date: Wed, Oct 12, 2016 at 5:04 PM

Subject: Concepts on RPA Adjustments process

To: Garwin Yip - NOAA Federal <garwin.yip@noaa.gov>, "Brycen Swart" (Brycen.swart@noaa.gov)<Brycen.swart@noaa.gov>

Cc: PABLO ARROYAVE <parroyave@usbr.gov>, "Maria.rea@noaa.gov" <maria.rea@noaa.gov>, Ronald Milligan <RMilligan@usbr.gov>, Michelle Banonis <mbanonis@usbr.gov>, Elizabeth Kiteck <ekiteck@usbr.gov>, Randi Field <rfield@usbr.gov>, Thuy Washburn <twashburn@usbr.gov>, David Mooney <dmmooney@usbr.gov>, Patricia Idlof <PIdlof@usbr.gov>, Janice Pinero <jpinero@usbr.gov>, Joshua Israel <jaisrael@usbr.gov>

Garwin,

Attached are our concepts on the adjustments process; our apologies again for the time it took to get this to you. Let us know if you have any questions, and we look forward to the meeting tomorrow.

Thanks,
Jeff

Jeffrey Rieker
Deputy Operations Manager

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