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**From:** Brycen Swart - NOAA Federal <brycen.swart@noaa.gov>  
**Sent:** Monday, September 12, 2016 10:05 AM  
**To:** Garwin Yip - NOAA Federal  
**Cc:** Cathy Marcinkevage - NOAA Federal  
**Subject:** Re: Shasta RPA adjustments and schedule  
**Attachments:** 2016-08-31 RPA Adjustments Outline.docx; 2016-08-19 RPA Adjustment Schedule.xlsx

Cathy,

We'll chat more at noon, but here's the latest (already slipping) schedule and outline.

Brycen

**Brycen Swart**  
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On Mon, Sep 12, 2016 at 8:14 AM, Garwin Yip - NOAA Federal <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)> wrote:  
Let's chat during our noon check-in.

I think you meant to send to Brycen, too.

-Garwin-

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*Garwin Yip*  
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U.S. Department of Commerce  
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On Sun, Sep 11, 2016 at 2:18 PM, Cathy Marcinkevage - NOAA Federal <[cathy.marcinkevage@noaa.gov](mailto:cathy.marcinkevage@noaa.gov)> wrote:

Garwin and Brycen --

I'm not sure where things are with the RPA adjustment -- are you still following the schedule that was provided by Garwin (dated 5/5/16) in the email below, though with a different start date? Regardless, there are some effects that we have seen from the CWF results that I'd suggest be considered in the adjustment, especially since the adjustment could become part of a process-based RPA for CWF, if necessary.

Here are some suggestions for what could be included in the adjustment given concerns generated by CWF results:

- Redd dewatering monitoring on annual basis.
- Detailed and updated hydraulic modeling to identify dewatering risks with changes in releases.
- In-redd temperature monitoring.
- Detailed temperature profiles across the Sac River below Keswick at different flows and water temps, include shallow riffles and pools and various air temperature conditions.
- Install thermistor strings in Shasta reservoir.

Will there be any modeling done to support the adjustment? I don't see that in the timeline, unless it is worked into the drafting of the adjustment document? Wouldn't there have to be some type of modeling with the new storage and spring action criteria -- for instance to see what the effects are to other components of the system, like the American, or to deliveries? I think that we would have to see that to have the adjustment fulfill the expectation that the process-based RPA prevents jeopardy (due to upstream concerns).

This isn't urgent, but they are thoughts to chew on, especially as the CWF pieces slowly but too quickly start to fall into place.

Thanks -  
Cathy

On Mon, Jun 27, 2016 at 12:13 PM, Garwin Yip - NOAA Federal <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)> wrote:  
FYI

-Garwin-

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----- Forwarded message -----

From: **Garwin Yip - NOAA Federal** <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)>  
Date: Fri, May 13, 2016 at 8:24 AM  
Subject: Shasta RPA adjustments and schedule  
To: "'[Maria.rea@noaa.gov](mailto:Maria.rea@noaa.gov)'" <[Maria.rea@noaa.gov](mailto:Maria.rea@noaa.gov)>  
Cc: "'[Brycen.Swart@noaa.gov](mailto:Brycen.Swart@noaa.gov)'" <[Brycen.Swart@noaa.gov](mailto:Brycen.Swart@noaa.gov)>

Maria,

See attached for the draft Shasta RPA adjustments and schedule. Hard copies will be distributed to Reclamation at our 9:30 a.m. meeting this morning.

-Garwin-

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