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**From:** Howard Brown - NOAA Federal <howard.brown@noaa.gov>  
**Sent:** Friday, October 26, 2018 7:37 AM  
**To:** Maria Rea  
**Cc:** Cathy Marcinkevage; Garwin Yip  
**Subject:** Re: [EXTERNAL] LCM discussion

I sent you a draft of the resource and schedule needs yesterday afternoon. Garwin, Cathy, Barb, Evan and myself are meeting today to discuss the science and modeling needs in greater detail and should have something ready to share soon after.

Howard

On Thu, Oct 25, 2018 at 8:55 PM Maria Rea - NOAA Federal <[maria.rea@noaa.gov](mailto:maria.rea@noaa.gov)> wrote:

So, this needs to go on Garwin's list of resource needs for biop. How is that coming, Garwin? Let's touch base in morning.

Sent from my iPad

On Oct 25, 2018, at 5:21 PM, Cathy Marcinkevage - NOAA Federal <[cathy.marcinkevage@noaa.gov](mailto:cathy.marcinkevage@noaa.gov)> wrote:

Just making sure that everybody knows Reclamation's re-iterated statement about NOT paying for the use of the LCM for the BiOp (only for the BA).

I'm not sure where they are going with this, but know that it has been stated and re-stated SEVERAL times.

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

**From:** **Harrison, Katrina** <[kharrison@usbr.gov](mailto:kharrison@usbr.gov)>  
**Date:** Thu, Oct 25, 2018 at 5:14 PM  
**Subject:** Re: [EXTERNAL] LCM discussion  
**To:** Eric Danner - NOAA Federal <[eric.danner@noaa.gov](mailto:eric.danner@noaa.gov)>  
**Cc:** Cathy Marcinkevage - NOAA Federal <[Cathy.Marcinkevage@noaa.gov](mailto:Cathy.Marcinkevage@noaa.gov)>

Hi Eric -

I caught about 10 minutes of the call today, unfortunately got pulled away from listening more. Hope it went well.

I think we talked a bit earlier, but just to confirm, Reclamation's agreement with UC Santa Cruz for the Winter-run Chinook salmon Life-Cycle Model does NOT include any funds for the SWFSC / UCSC to run the LCM for informing any NMFS Biological Opinions. This is not covered or allowed under our agreement.

Thank you,

Katrina Harrison

On Tue, Oct 9, 2018 at 2:06 PM Eric Danner - NOAA Federal <[eric.danner@noaa.gov](mailto:eric.danner@noaa.gov)> wrote:

Hi Katrina,

Since we are not having our Thursday call, Cathy and I thought it would be important for the three of us to have a call tomorrow instead. There are a number of pressing issues we should discuss:

1. BA scenario timeline
2. What scenarios/types of scenarios will be run
3. Use of current funding for BA vs BO

We both have relatively open schedules. I will suggest:

- a. Between 8:30 and 10:30
- b. 12:30
- c. 2:30

Any of those work for you?

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Eric Danner, Ph.D.  
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