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**From:** Cathy Marcinkevage - NOAA Federal <cathy.marcinkevage@noaa.gov>  
**Sent:** Monday, April 29, 2019 11:15 PM  
**To:** Maria Rea  
**Cc:** Garwin Yip; Evan Sawyer - NOAA Affiliate; Howard Brown  
**Subject:** Shasta Effects Analysis Items  
**Attachments:** Shasta\_Headers\_Only.docx; 2.5 and 2.6 Upper Sac Effects V9.docx

Hi Maria --

There's a lot of work on Shasta, and eagle-eye Yip will review it all very closely I'm sure ;).

A few items I'll raise to you either due to interest or need for some help:

(All page numbers are with tracks OFF)

p. 10

I added Section 2.5.2.1.1 Project Uncertainties. Please take a look. I will add in your table with some fleshing out.

p. 11

Your comment "**Organizationally, I'm not sure this belongs here - - but insert somewhere**" refers to text that I didn't revise much simply because of limitations in my knowledge. Happy to have any fleshing out of this that you can offer.

p. 13

We added SAIL figures and linked those to the stressors. Skim through!

p. 25

Revised GS text for effects of winter operations. A bit more to do but added some in there.

p. 27

Section on Feb forecast process and contractual water allocations begins here and goes several pages. **I flag this for your attention since I'm not confident I captured all of your points.** Specifically, in the subsequent spring base flows section on p. 31, you have a comment **Here is where you should put in some base vs contract supply delivery analysis, and make some overall summary conclusions of volumes of storage losses that are associated with reclamation's discretionary actions, and separately, the SRS base supplies (with are part of the PA).** I have that in yellow because I don't feel like I've adequately addressed it.

p. 32

Section on spring pulse flows includes a lot more from Daniels work and presentation, including figures on p. 34.

p. 40

Summer cold water pool management section starts here. I revised this a lot, and added in a lot on 7DADM, EPA 2003, some 2014/2015 drought info throughout. p. 45 begins explanations of the tiers, and descriptions of uncertainty associated with each one.

p. 47

WR analysis of summer cold water pool management. You had several items in this section that I believe I addressed, and I added a lot on uncertainty.

Attached: A document of headers only, so that you can more easily see the structure of the sections.

Happy to get your thoughts and suggestions on any of this.

Thanks!

Cathy