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**From:** Barbara Byrne - NOAA Federal <barbara.byrne@noaa.gov>  
**Sent:** Friday, December 21, 2018 3:33 PM  
**To:** Harrison, Katrina  
**Cc:** Garwin Yip - NOAA Federal; Jana Affonso; Jacobs, Brooke@Wildlife; Wilkinson, Chris@DWR; Howard.Brown; Cathy Marcinkevage  
**Subject:** Re: [EXTERNAL] RE: ROC on LTO - Complete Model Results to Support the December 2018 BA Qualitative Analysis

Katrina -- NMFS will need to review this material with our team to best determine what outputs are useful for our analysis of the different divisions. We will provide more detailed requests for results in January. As some preliminary initial feedback:

- We expect to see similar packages for stream flows and reservoir releases.
- We anticipate needing additional CALSIM and temperature modeling results.
- Below I offer a few suggestions on additional data visualizations that would be helpful for each type of output.
  - A series of bar charts like the attached example from the 2008 BA. While this information is in the yeartype-specific rows of your scenario tables, the current format of results allows a review of just two scenarios at a time. The attached example allows an easy "at a glance" comparison of ALL scenarios at once, over all months of year, both overall and by yeartype.
  - A graph showing the full chronology for all scenarios, as in the attached example from the 2008 BA. This sort of figure will help us understand whether/when we have "runs" of low storage/low flow years and how that looks in the different scenarios.

Barb

On Thu, Dec 20, 2018 at 5:43 PM Harrison, Katrina <[kharrison@usbr.gov](mailto:kharrison@usbr.gov)> wrote:

Hi folks -

Attached are some example results from our ROC modeling - do you have any comments on the format? They will all look like this (or as amended by your comments). We are spitting out the CalSim results for the new PA tomorrow.

Thank you,

Katrina

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