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**From:** Evan Sawyer - NOAA Federal <evan.sawyer@noaa.gov>  
**Sent:** Tuesday, May 21, 2019 11:29 AM  
**To:** Cathy Marcinkevage - NOAA Federal  
**Subject:** Shasta Performance metrics  
**Attachments:** ROCON Shasta performance metrics v4.docx

As discussed,

I tried to take a consistent approach to the TDM and ETF survival metrics. For tiers 1, 2&3 and 4 I am suggesting using the median TDM (a little low in 1 and a little high in 4 but consistent). For tiers 1 and 2&3 I am suggesting the 3rd quartile (top 25%) of ETF survival which I would argue is a good "backstop" for when there is high TDM. Tier 4 ETF survival is based on the 90th percentile (lowest 10% ETF survival ) out of all years 1996 - 2018 (only 2014 is actual tier 4 so data limited). Again the lowest 10% of ETF survival would be the absolute minimum ETF survival that we would accommodate. <-- This might not work since Tier 4 has a max TDM of 84% and a minimum ETF of about 15% which would mean that if Reclamation exceeded the TDM of 84% the 'best' ETF we could hope for would be 16%, which is essentially at the threshold for ETF survival, which would trigger reinitiation (not meeting either TDM or ETF).

Evan

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