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**From:** Melanie Okoro - NOAA Federal <melanie.okoro@noaa.gov>  
**Sent:** Monday, June 11, 2018 9:41 AM  
**To:** Barbara Byrne - NOAA Federal  
**Cc:** Garwin Yip - NOAA Federal; Douglas Hampton; Jeff Stuart; Kristin McCleery - NOAA Affiliate; Sarah Gallagher - NOAA Federal  
**Subject:** Re: I:E ratio alternatives by 3pm today!!!!

Hi Barb,

I've added comments and ideas .

Melanie

On Mon, Jun 11, 2018 at 9:01 AM, Barbara Byrne - NOAA Federal <[barbara.byrne@noaa.gov](mailto:barbara.byrne@noaa.gov)> wrote:  
Jeff, Garwin, and I will be meeting with Maria at 3pm to review the list we generate. Please do contribute any and all ideas (even not fully worked out) -- this issue has been elevated and will be a topic of discussion ASAP and having some alternatives we support will help the conversation move forward.

Full explanation and link to google doc in original e-mail, forwarded below.

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

**From:** Barbara Byrne - NOAA Federal <[barbara.byrne@noaa.gov](mailto:barbara.byrne@noaa.gov)>  
**Date:** Wed, Jun 6, 2018 at 2:31 PM  
**Subject:** I:E ratio alternatives -- please add to google doc by COB Monday, 6/12.  
**To:** Garwin Yip - NOAA Federal <[Garwin.Yip@noaa.gov](mailto:Garwin.Yip@noaa.gov)>, Douglas Hampton <[douglas.hampton@noaa.gov](mailto:douglas.hampton@noaa.gov)>, Jeff Stuart <[j.stuart@noaa.gov](mailto:j.stuart@noaa.gov)>, Kristin McCleery - NOAA Affiliate <[kristin.mccleery@noaa.gov](mailto:kristin.mccleery@noaa.gov)>, Melanie Harrison - NOAA Federal <[Melanie.Okoro@noaa.gov](mailto:Melanie.Okoro@noaa.gov)>, Sarah Gallagher - NOAA Federal <[sarah.gallagher@noaa.gov](mailto:sarah.gallagher@noaa.gov)>

As part of the Track 1 ROC on LTO process, Reclamation has shopped several alternatives to Action IV.2.1 (the I:E ratio action in the RPA of the 2009 NMFS LTO BiOp. Especially as part of Track 1 (which is supposed to include relatively easy-to-implement, low-hanging-fruit types of projects), the proposed alternatives are....challenging. This issue has been elevated to Maria and Federico's level and **Maria has asked for the WODC's ideas on "alternatives to the I:E ratio in IV.2.1 that provide equivalent protection"**.

Please share your ideas BY MONDAY 6/12 COB on the google doc I shared with you, and available at: [https://docs.google.com/document/d/1czZ89H3wJPldCz7oheP9Kp-5hhAG9J-qkFt\\_8l\\_afM0/edit?usp=sharing](https://docs.google.com/document/d/1czZ89H3wJPldCz7oheP9Kp-5hhAG9J-qkFt_8l_afM0/edit?usp=sharing)

A small group (Garwin, Jeff, and me?) will brief Maria on our ideas sometime the week of 6/12.

Thanks,  
Barb

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**Barb Byrne**

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