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**Sent:** Sunday, June 16, 2019 9:12 AM  
**To:** Brittany Cunningham - NOAA Affiliate; Kristin McCleery - NOAA Affiliate; Sarah Gallagher - NOAA Federal; Evan Sawyer - NOAA Affiliate; J. Stuart  
**Cc:** Garwin Yip  
**Subject:** Take tables  
**Attachments:** STEPS TO DESIGNATE AN ECOLOGICAL SURROGATE - 2019.docx

Hi all,

I know at least most of you have looked at Garwin's review comments/edits and starting making some revisions. I went through and added a few comments to at least one of each of your sections (I think) - to be carried through all sections.

SCHEDULE: is to have a good ready to go copy by Monday. Thanks for those of you that are putting some time in this weekend!

Let's keep communicating when you close the Tables doc so others know they can get into it.

For example, some reminders about the A/E of take column:

- 1) Incidental take is A/E that we expect to occur based on the PA (modeling, etc). This should be an "acceptable" amount (that avoids J)
- 2) As take is number of "death/injury/capture, etc of fish" - when we don't have this, we are using an ecological surrogate (a metric we use to help inform what the level of effect/take will be). In the table for every cell, we should then start with "The ecological surrogate is... "
- 3) If it is not already stated, we should include how this surrogate relates to the actual number of fish being taken (for example a degraded habitat area surrogate would include description of how the degraded habitat is expected to result in reduced growth/survival of juveniles) - this is the "probable change in fitness" column.
- 4) To end the A/E discussion, we need to indicate when take would be exceeded. This is when the level of take goes BEYOND what was indicated in the PA/modeling - and so beyond the surrogate. In some cases we don't want to just end it, triggering reinitiation, but we would want some intervention (like call us to reduce), other times a "target" will be exceeded - but take won't be exceeded until the target is missed a certain number of days in a year or number of years, etc.

If you are still struggling to identify/define a surrogate or when it is exceeded, float the question with this group and maybe someone can help.

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