

SMR Update and Input to Ocean Class R/V RFP Development

Project Description and Tasking:

- **SMRs could benefit from some update, re-organization as well as incorporating lessons learned.** Stronger statements about minimum requirements and relative priorities are needed to make the SMRs more effective in the design development process.
- **Three key concepts** would improve the utility of the SMRs:
 - **Create an SMR statement of research vessel design principals and requirements (would apply to all classes):** Would include statements about such things as habitability, noise levels, lighting levels, lab design standards, pollution control, communications capabilities, etc. Quantifiable items would be presented in a table with columns for absolute acceptable minimum and an ideal target value.
 - **Class specific requirements** such as range, endurance, speed, number of science berths, number, size and type of laboratory spaces, main work deck area size, etc. would vary according to the class of vessels. These are quantifiable and would be presented in a table similar to the one above.
 - **Establish a relative priority for each requirement.** Cost drivers in ship design and construction should be considered.

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Timeline:

- **Near-term:**
 - This effort could have a beneficial impact on the current effort by ONR and PEO-Ships to create the RFP and performance specifications for the Ocean Class design effort. PEO-Ships is currently working on a notional design that would be used to create a cost estimate for the project and they are also working on the specifications and RFP language.
 - Community feedback over the next couple of months regarding the minimum acceptable values, target ranges, and relative priorities for the Ocean Class SMRs would be useful for their efforts.
- **One Year:** Finalizing revised SMRs for Regional, Ocean and Global Class can take place over a longer time frame, but could be completed within a year.

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- **Project website is available:**

<http://www.unols.org/committees/fic/smr/update08/index.html>

- Project Documents
- Project Statement
- Reference Materials
- Submit Feedback

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Proposed Process & Status:

- UNOLS Office would create a draft re-organization of the Ocean Class SMRs to fit the concepts discussed in previous slide.
 - Ocean Class SMR Table of Values and Priorities has been drafted by Mike Prince:
http://www.unols.org/committees/fic/smr/update08/OCSMR_Summary_Table_091608.pdf
- FIC, NSF, ONR and PEO-SHIPs would review the re-organized Ocean Class SMR to be sure the structure is effective and appropriate. Agree on those elements for which range of values are needed. Agree on the levels of relative priority (number and description/ranking).
 - FIC reviewed SMR table during August phone meeting

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Proposed Process (continued):

- **FIC would revise the actual requirements:**
 - Review lessons learned and incorporate
 - Identify the requirements that are cost drivers. (Input from a Naval Architect may be needed.)
 - Review UNOLS science outfitting recommendations provided to NSF in August 2007 for the Regional Class Vessels
 - Obtain feedback from Regional Class and ARRV advisory committees
 - Making an initial assessment of the relative priorities of SMR elements.
- **Get community input:**
 - Community Survey of Ocean Class SMR table - in progress.
http://www.unols.org/forms/_OCSMR_FeedbackForm.asp
- **Finalize SMRs** (slide to follow)

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Initial community response to Ocean Class SMR survey:

- **Mike Prince will present**

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Next Steps - Finalize SMRs:

- With FIC and Council approval, provide Ocean Class SMR final draft to ONR and PEO-Ships
- Draft Regional Class and Global Class versions of the revised SMR
- Post all three for community feedback with the quantifiable elements side-by-side.
- Create final draft of all three SMRs and post for final comments.
- FIC and Council approve final revised SMRs