Feb. 15 1998 - Compile DESSC, federal agency, and community-wide comments/revisions to draft policy.
Mar. 1 1998 - Complete revisions and submit to DESSC and federal agencies for final review and approval.

Appendix XII

Available from UNOLS Office

Appendix XIII

New Deep Submergence Vehicle Construction and Facilities Upgrades
The 5 to 20 Year Vision

- Arrive at consensus on what type(s) of n e w vehicle(s) are needed to accomplish deep submergence science over the next 20 years
    - Example:
        - New construction should be 6000m science dedicated ROV versus 6000m submersible
    - Issues:
        - Operational limits and required support personnel
        - Vehicle tether management system and shipboard heave compensation
        - Manipulation and Sampling
        - Remote data communication
        - Vehicle Systems Redundancy/Spares
- Make decisions about upgrades to existing National Deep Submergence Facilities
    - Examples:
        - Use of Sea Cliff to enhance Alvin capabilities.
        - Shared vehicle telemetry and science sensors between ROV Jason and Argo 11.
        - Surface control vans and electronics
        - Existing manipulator on ROV Jason and basket space/configuration
        - DSL-120 sonar array upgrades-altimeter, subbottom profiling, vehicle towbody, depressor and cable hydrodynamics
    - Issues:
        - Identification of how to best utilize Sea Cliff to upgrade Alvin operational and science sensors, and the timetable over which this can be accomplished Expected useful service life of ROV Jason, Argo 11 and DSL-120 sonar
- Investment in upgrades to existing ROV & towed vehicle facilities to provide capabilities for next 5-7 years with ability to migrate investment to new ROV and towed vehicle facilities & Funding strategies to implement required longterm new facility construction and short-term upgrade to existing vehicles
    - Examples:
        - Tripartite federal funding plan for new construction and phased upgrade plan
        - WHOI and private foundation funding
        - Consortium of the above parties
        - Other combinations vehicle
    - Issues:
        - Writing the supporting document which makes the case for the need for new deep submergence vehicle construction and upgrades - long term and short term.
        - Acquiring community, agency and "political" support for the projects.
        - How quickly can the funding be secured
        - When can the new and upgraded facilities be placed into service.
        - Impact to ongoing and planned research objectives
