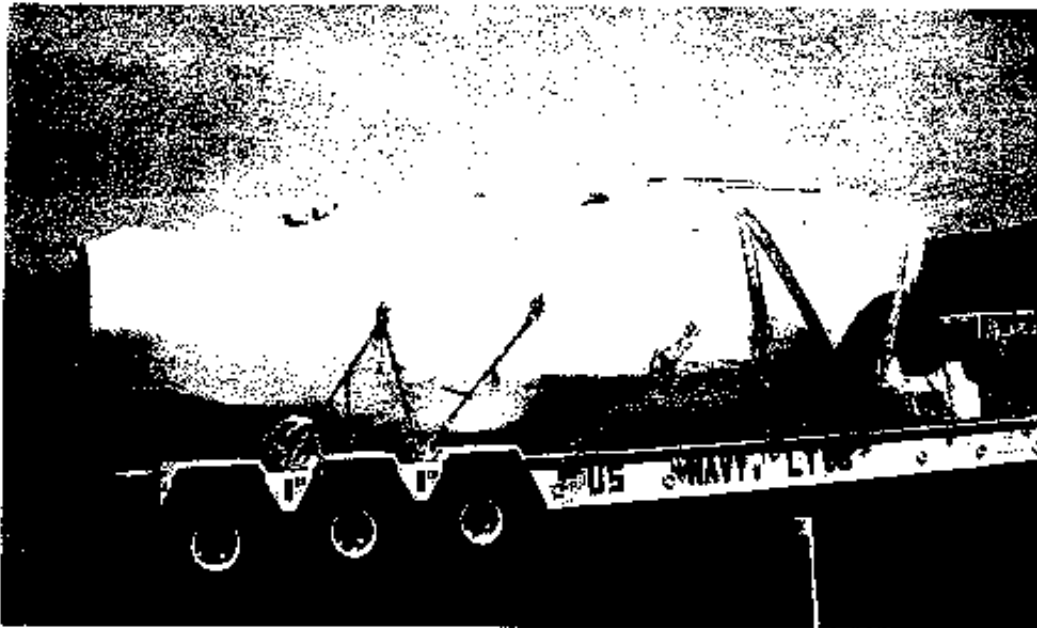


Appendix VII

SEA CLIFF Update

SEA CLIFF (DSV-4)

Status Report



Arrived August 5, 1998

Current Projects

- Layup maintenance program
- Long-term storage arrangements
- Obtaining manipulators and replacement trim systems from Navy
- Obtaining spare parts from Navy
- Obtaining maintenance and engineering records

SEA CLIFF/TURTLE Parts in Current Use

- EDO/Straza 1510 CTFM sonar
- Spare UQC underwater telephone

Engineering Study

- Approved and funded
- Integration of SEA CLIFF and ALVIN systems into 6,000m submersible
 - Detailed study of SEA CLIFF systems
 - *Study plans, manuals and material history*
 - *Study actual vehicle, components & material on site*
 - Investigation of 6,000m submersible component market
 - Inspection of currently-operating 6,000m submersibles
 - Investigate sphere construction and viewport location issues
 - Develop design concepts and cost projections