APPENDIX XII

ALVIN Overhaul and Upgrades

ALVIN Overhaul Status

- Some personnel on ROV ops
- Frame repaired..100%

123

988

335

論

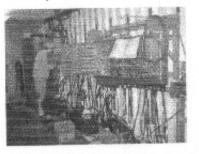
强

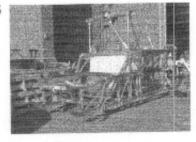
22

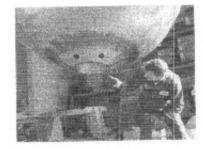
105

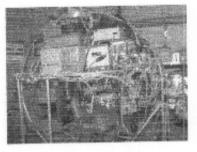
- Variable ballast rebuilt..70%
- Manipulators rebuilt..90%
- Electronic Equip maint..75%
- Personnel/VB/HP spheres insp..100%
- Pressure test implodables..50%
- Hydraulic system rebuild..80%
- Electrical J-boxes rebuild..75%
- Explosive bolts..20%
- Battery Boxes..10%
- Foam repairs..50%
- Blow/vent system. 100%
- Internal panels/wiring.. 75%
- Skin repairs/painting..5%

Component re-installations started..5%









ALVIN Upgrades

- Wiring for 3rd battery
- Pan/Tilt installation
- New single chip video camera
- New motor controllers
- Pelagic pump motors
- New in-hull Nikon cameras