

Plan of Action

- **Analysis of failures to date.**

- ◇ NAVSEA funding.
- ◇ Scripps (Tom Althouse) lead; WHOI, UW assist.
- ◇ Team to witness removal of *Thompson* and *Knorr* gears, conduct metallurgic analysis.

- **Possible Outcome**

- ◇ Design problem (worst case) - seek Navy/NAVSEA assist in resolution.
- ◇ One off manufacturing defects - pursue recourse with LIPS with ONR and NAVSEA backing.
- ◇ No common cause/failure mode - review sparing provisions

Appendix V

ATLANTIS SHAKEDOWN

- ▶ **SeaBeam underway testing**
Hudson Canyon survey
- ▶ **Gravity coring**
- ▶ **Mooring deployment**

SHIP OUTFITTING & LOADING

Six weeks total

- ▶ **ALVIN shops and storage areas constructed**
- ▶ **Sled tracks modified**
- ▶ **Stores and supplies loaded**

ALVIN POST-OVERHAUL

- ▶ **3 tethered trim dives in Woods Hole**
- ▶ **14 certification/engineering dives off Bermuda**
Increasing depths from 10 to 4,500m
- ▶ **Science equipment tested:**

35mm stereo cameras

datalogger

navigation

external video cameras

all lights

video recorders

manipulators

temp probes

science strobes

shipboard video editing

lasers

pan & tilt

- ▶ **9 science dives so far on Mid-Atlantic Ridge**
All systems working well
Average bottom time: 4.6 hrs.