Alvin

Near Term (June 2007)

- Install Adept / Lotus Notes
- Install precision time standard
- Install Frangibolt release devices
- Install RTD temperature instrument
- Test LED lighting
- Test new LBL data acquisition system / trigger system





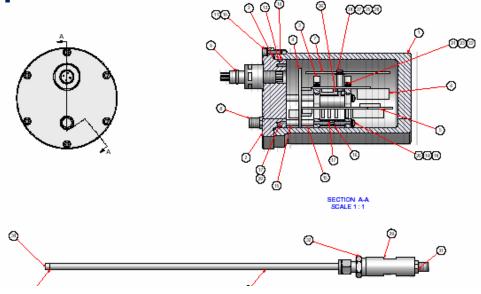




Alvin (cont.)

RTD Temp Instrument





- Replaces Low T and Hi T instruments
- Range: 0 to 480 deg C
- Platinum RTD



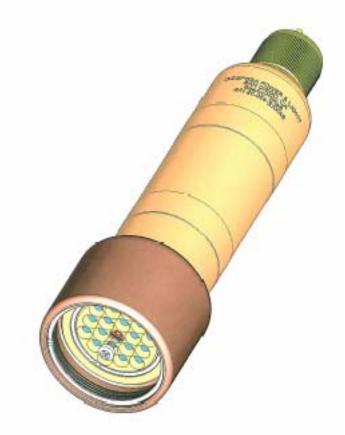






Alvin (cont.)

LED Lighting



- Pressure compensated
- 3,000 to 4,000 lumens (compared to 2800)
- 6,500 to 7,000 color temp









Alvin (cont.)

Precision Time Standard



- Provide Network Time Protocol (NTP) to Alvin computer bank
- Provide timing signals to Alvin navigation system
- Allow for synchronized LBL navigation with Atlantis
 (more reliable navigation)









Alvin (cont.)

Later in 2007:

- Install PHINS (inertial navigation)
- Test rate-controlled hydraulic control system for stbd manipulator
- Test digital still camera controller







