



# SCSI Harbor Status

**B. Sun**

**sgi**

# Status Summary

- **10x backplane layout has been completed and sent to Molex for prototyping**
- **Five sets of drives have undergone thermal testing**

# Progress

- **10 device backplane layout completed**
- **Working on next generation wrapper design (EMI gasket, Zn material)**
- **Prototype completed for dock structural support**

# Backplane Status

- **10 drive backplane**
  - Gerbers sent to Molex 9/14/99
  - 10x connector (1.6” design)
  - LVD only
  - 2 buses - 5 drives per bus
  - 110 Ohm differential impedance
- **15 drive backplane**
  - require expanders
  - neither schematic nor layout begun

# Schedule

- **Testing (round 1)**
  - **Present results Nov 4, 1999**
- **Design**
  - **Design review Nov 4, 1999**
  - **Design review Jan '00**
  - **Finalize design May '00**
- **Fab Cycle - assume 6 weeks**

# Issues

- Intel to provide design personnel (3/99)
- Intermec patent litigation
- Drive Proprietary Information
  - PES & error rejection curve information
  - Quantum, IBM, Hitachi must supply
- Dock deflection due to force from RV springs
- IP and licensing issues

# Drive Receipt

## – Thermal

- 68-pin drives
- Thermocouple location and max temp product spec
  - sgi c/o Mark Olson (715) 726-8218  
1050 Lowater Road  
Chippewa Falls, WI 54729

## – Rotational Vibration

- 80 pin SCA-2 drives
  - sgi c/o Benjie Sun (650) 933-5573  
2011 N. Shoreline Blvd. m/s 565  
Mountain View, CA 94043

# Drive Receipt

- **Quantum - awaiting drives**
- **Western Digital - not participating in round 1, purchasing full set of round 2 prototypes for testing**
- **Seagate - received 5 of 6 sets**
- **IBM - received 6 of 6 sets**
- **Fujitsu - performing testing in Japan**
- **Hitachi - received drives**

# Goals for Next Review

- Nov 4, 1999 - Monterey, CA**
- Hold Design Review**
  - Incorporate thermal and RV results into redesign**
  - Thermal results to include backplane**
  - Discuss detailed feature design for wrapper, handle, EMI, and bezel**
    - Attendees should include mechanical experts from drive mfgs to discuss drive specific needs**