SLAC Lifting Fixture Load-rating Form

(See page 2 for General Guidelines and Step-by-step Process)

Requester

Print name: **Jim Krebs** Date: **2/28/06**

Brief Description of Lifting Fixture and object to be lifted

**BaBar LST Module Transfer Frames #1 & #2**

**Devices provided by Princeton University**

SLAC Drawing number

**Sketch provided**

Copy of drawing or sketch must accompany this form.

1. Rated Capacity Calculation

Rated capacity **1,500 lbs.**

Print name: **William Sands** Signature: **Jim Krebs** Date: **3/1/06**

Qualified engineer who performed calculations. Copy of calculations or vendor documentation must accompany this form.

2. Non-destructive testing of load-bearing welds (pre-2005 non-certified welds only)

Print name: **N/A** Signature: **Jim Krebs** Date: **3/1/06**

Qualified engineer who supervised or contracted testing. Copy of report must accompany this form.

3. Review by Hoisting & Rigging Safety Committee

Print name: **Dave** Signature: **Jim Krebs** Date: **03/01/06**

H&R Safety Committee Chair

4. Load testing – normally at 125% of rated capacity (see instructions).

Required test weight **1,875#** Actual test weight **1,904#** Successful completion (check) **X**

Print name: **David Engel** Signature: **Jim Krebs** Date: **2/24/06**

SLAC Rigging Department

5. Label fixture with rated capacity & S/N

Assigned S/N **BBR-003, BBR-004**

Crane Custodian or Line Supervisor responsible for fixture

Print name: **Jim Krebs** Signature: **Jim Krebs** Date: **2/28/06**

Crane Custodian or Line Supervisor responsible for fixture

6. Final Inspection and Approval

Print name: **Dave** Signature: **Jim Krebs** Date: **03/01/06**

SLAC H&R Inspector

7. Permanent record keeping – retained for the life of the equipment (see instructions).
LST MODULE TRANSPORT FRAME

Load is supported by 4 1/2-13 threaded rods each capable of supporting 3550#.

\[ F = 8 A \times (25000 \text{psi})(1.419 \text{ in}^2) = 3550# \]

Eye Nut McMaster Car #3274T42 Rated 3600#.