

**CALIFORNIA INSTITUTE OF TECHNOLOGY**  
LIGO Project, 102-33 East Bridge Laboratory, Pasadena, California 91125  
818-395-2129, Fax 818-304-9834

Date: January 10, 1995

Refer to:

LIGO ~~E950083~~ E950002

Paul S. Riegert  
Wyle Laboratories  
225 South Aviation Blvd.  
El Segundo, CA 90245

Dear Sir:

The following are the specifications for the racks that we will be needing for LIGO in the near future.

**Frame**

1. Panel opening: 19" W, 78" to 82" Height
2. 30" minimum depth
3. Full length, 10x32 tapped, mounting angles, front and rear, adjustable minimum 3" from front and rear to allow inset of equipment for rack door closure.
4. Materials and structure:
  - a. Support at least 800 lbs. of equipment, evenly distributed in rack.
  - b. Fully welded frame structure
  - c. Removable lifting eyes at top; capable of being lifted from 4 eyes at top of rack to single point connect crane hook, fully loaded, without noticeable frame distortion
  - d. All rack frame pieces electrically connected via welds, or bolted connections utilizing metal to metal contact

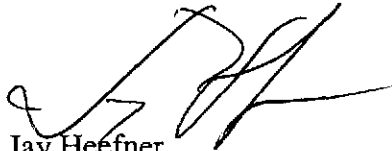
**Accessories**

1. Full length, steel rear door
  - a. Louvered vents at top and bottom
  - b. Flush mount door handle
  - c. Door lock
2. Two removable steel side panels
3. Aluminum front door
  - a. Smoked glass
  - b. Flush door handle w/lock
4. Removable bottom panel

5. Removable, louvered top panel
6. Vertical plug strip
  - a. 115V/15A service
  - b. Six outlet minimum
  - c. Include 115VAC plug strip power cord (10')
7. Toe base
  - a. Extra wide (3" greater than rack frame width/depth) to provide added stability
  - b. Removable casters, capable of accommodating full rack load
8. Moveable angle, unistrut or other supports on each side of rack to allow for equipment mounting at other than the front/rear panel angle supports.

I would appreciate it if you could furnish me with a quote for a quantity 5 order. As these racks will be used here at Caltech to do the initial prototype and development work for the LIGO Control and Data System the specifications are not as stringent as those for racks to be used at the LIGO sites in Washington and Louisiana. I have tried to stay within the specifications for your standard catalog items, but may not have succeeded. Therefore, I would appreciate it if you would advise me as to any exceptions or deviations that you may have to the specifications. The most important considerations at this time are price and delivery.

Sincerely,



Jay Heefner  
LIGO Control and Data System

bm:jh

cc:

File

*Document Control Center*  
*Chronological File*