

Ops

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Baseline plan of 1989 being revised to adjust to new realities. This will result in increased scientific activities on site and increased on-site staffing.

Work in Progress:

- Preliminary definition of staffing/occupancy levels (approx. 36/28) is done
- Definition of demands of support facilities is in progress

Work needed:

- Test above products by writing scenarios for various work activities, e.g.
 - cleaning of a test mass
 - modification of a suspended optic
 - installation of a new suspension
- Staffing/occupancy implementation plan: how to have a crack, experienced technical staff waiting to make progress when the equipment shows up at the loading dock.

Electronics/Data Lab

Activities:

- Electronics/cabling fabrication, assembly
- Measurement, calibration and troubleshooting
Electronics repair
- Soldering
- Electronics design
- Home base for Electronics engineer and technician

Furnishings:

- 1 ea ENGINEER desk w/workstation, bookcases, files
- 1 ea TECHNICIAN desk, catalog cases
- 1 ea workstation w/ laser printer
- 5 ea workbenches (2ea, test/repair/calibrate; 2ea, electronics fab; 1ea, design/test)
- TBD cabinets and shelving for electronics supplies
- TBD files for electronics documentation/manuals
- TBD free standing area for rack assembly

Installed Equipment:

- **TBD, using Support Equipment Cost Book Basis**

Minimum estimated space: 30' x 30' = 900 sqft

Special considerations: maintain 36" minimum clearances for movement of electronics on carts.

Optics Lab

Activities:

- **Optics Inspection**
- **Optics Cleaning: spin cleaning and chemical cleaning**
- **Optical Testing: ringdown, scatter, transmission, absorption**
- **Optics Storage**
- **Home base for optics technician**

Furnishings:

- **1 ea desk w/ workstation for TECHNICIAN**
- **1 ea desk with chemresin work surface**
- **1 ea clean bench, 8' x 3'**
- **1 ea inspection microscope capable of handling core optics**
- **1 ea chemical cleaning station for core optics, requires fume ducting, hot plate, 18-Meg water, sink with water, chemical storage**

- 1 ea optics test station, including ringdown, transmission, scattering, absorption test, capable of handling core optics
- TBD cabinets for storage of optical components

Special considerations:

- maintain 36" minimum clearances for movement of electronics on carts
- solvent use area, requiring chemresin work surfaces, metal cabinets w/ glass doors
- no DOPA used to test clean benches
- minimize introduction and handling of paper materials
- Class 3000 environment for particulates
- air must be free of oil vapors
- requires use of pressurized, high-purity gas cylinders

Installed Equipment:

- TBD, using Support Equipment Cost Book Basis

Minimum estimated space: 30' x 30' = 900 sqft

Vacuum Prep/Assembly Lab

Activities:

- Cleaning, including use of detergents and solvents
- Vacuum bakeout and outgassing certification
- Clean assembly of subsystems
- Home base for vacuum/mechanical engineer and technician

Furnishings:

- 1 ea ENGINEER desk w/workstation, bookcase, files
- 1 ea TECHNICIAN desk w/ workstation, catalog case, files
- 1 ea cleaning station w/ fume ducting, ultrasonic bath, drying area
- 1 ea large vacuum bake oven w/ RGA
- 1 ea small vacuum bake oven w/ RGA
- 2 ea large work table with lower drawers for clean tools
- TBD overhead cabinets w/ parts bin for vacuum-prepped screw, nuts, shims, small fixtures

- **TBD cabinets for storage of cleaned and baked components**
- **1 ea large clean bench**

Special considerations:

- **maintain 48" minimum clearances for movement of electronics on carts, engine hoist**
- **solvent use area, requiring chemresin work surfaces, metal cabinets w/ glass doors**
- **no DOPA used to test clean benches**
- **minimize introduction and handling of paper materials**
- **Class 3000 environment for particulates**
- **air must be free of oil vapors**
- **requires use of pressurized, high-purity gas cylinders**

Minimum estimated space: 20' x 30' = 600 sqft