

**South Texas Research Facility  
NEWSLETTER  
No. 10: June 14, 2011**

**News and Information for  
Investigators and Staff Relocating  
to STRF**

**Editor: John Cole, Ph.D.**  
*Director STRF Operations  
Office of the VP for Research  
colejf@uthscsa.edu*

---

**Relocation Planning Progress**

UT contractor Veolia Environmental Services and EHS representatives did a laboratory walk-through on May 26<sup>th</sup> to assess relocation requirements for chemicals and hazardous materials.

On June 8<sup>th</sup> a relocation planning progress update and information team meeting was held with relocation consultant Coats Group. At this meeting a preliminary relocation schedule was presented and discussed. Coats Group conducted additional meetings on June 8<sup>th</sup> to coordinate matters with materials management and other support groups as well as with Program Leaders and PIs.

This month Sean Wilson will be working with PIs and lab managers to prepare an inventory of all floor-mounted and other major research equipment to be relocated to STRF. The inventory will include important information such as electrical requirements and electrical plug types to ensure compatibility with STRF receptacles. Liquid nitrogen storage dewars and compressed gas cylinders will also be inventoried. We very much appreciate the continuing help

and support of PIs, lab managers, and laboratory personnel in planning this move.

**Construction Progress**

In the first floor lobby area terrazzo installation is nearing completion and handrails are being installed and final painting proceeding in stairwells. On the second floor at grids 1-18 air balance and cleanup is proceeding. At grids 12-22 overhead inspections and ceilings are being completed. At grids 22-33 laboratory casework hookup and testing and overhead rough in, ceilings and flooring continues. The third floor is undergoing final cleaning. Outside, paving, irrigation, and landscaping continue. Trees have been delivered. The construction trailers have been removed and grading of parking lot 19A is under way. The construction office has been relocated inside the building. There are 150-160 workers on site, down from 200-220 at our last report. Building equipment training is being scheduled.

**STRF Building Operations**

The HSC Materials Management organization will provide services similar to those it provides at other campus research buildings.

Items ordered from General Stores or outside vendors, will be delivered to Central Receiving, brought to STRF, and delivered to individual room numbers as specified on the PO, by Materials Management personnel.

Mail will be delivered to the mail room located in the first floor dock area and will be sorted by research program and/or mail code for pick up by

administrative personnel. Existing mail codes for IIMS and STTM will be retained. For outgoing mail (internal or US Mail) an outgoing mail bin will be provided at the mailroom.

Storage will be provided in the dock area for bottled gases in routine use (such as CO<sub>2</sub>, dry nitrogen, oxygen) but investigators will need to arrange for drop off of empty bottles and pick up of full bottles by laboratory personnel. Also, space will be provided for hazardous and radioactive waste storage/pick up and linen service (lab coats). To assure proper delivery to the STRF, lab coats will be eventually re-coded.

Liquid nitrogen and dry ice will be provided from bulk storage at 24/7 state-of-the-art self-service stations located in the first floor receiving area. Lab personnel will bring their dewars or ice boxes to the fill area where product will be dispensed by weight. While final details remain to be worked out, the current concept is for a user to place a nitrogen dewar on the scale at the dispensing station, swipe his/her badge, and enter a user password and PID number. The dewar will be filled automatically. Every dewar in use will be bar-coded and information as to manufacturer, tare weight and full weight will be maintained by the system computer. Many safety features and interlocks will be incorporated into the system.

By special arrangement with Materials Management, unusually large or high value equipment may be delivered directly to the STRF building.

## **Laboratory Utilities**

In this article, reference will be made to the National Electrical Manufacturers Association (NEMA) configurations for electrical plugs and receptacles. For illustrations of what these look like see the following link:

[http://www.nooutage.com/nema\\_configurations.htm](http://www.nooutage.com/nema_configurations.htm) - Terminology

At STRF receptacles connected to emergency power are generally colored red, however this is not always the case. The circuit label on each receptacle indicates whether it is connected to emergency power or not. Circuit labels printed in red ink indicate emergency power.

### *Linear Equipment (LE) Labs.*

Each LE lab has an ice machine installed in the center of one long wall. The drain from the ice machine is hard-plumbed to a floor drain beside it. This will prevent placement of floor-mounted equipment in this position. Also, condensate-reheating equipment likely will be placed in this position in LE labs rooms 217, 218, 219, 220, 221, 222, 223, and 224. Equipment may be placed on the movable bench straddling the drain.

Each long wall has two (2) 208 Volt 20 Amp NEMA 6-20R receptacles on emergency power for a total of four (4). These are for -80 freezers.

Each long wall has nine (9) 110 Volt 20 Amp NEMA 5-20R plugmold receptacles on the ice machine side and ten (10) on the opposite wall.

The long wall opposite the ice machine has one (1) 208 Volt 30 Amp

NEMA 6-30R receptacle for a centrifuge. The opposite long wall has one (1) 110 Volt 20 Amp NEMA 5-20R receptacle not on emergency power.

All -80 freezers, refrigerators, and floor-mounted centrifuges to be relocated to the STRF need to be identified, inspected, and cataloged, noting their voltage and the type of plug by NEMA classification. Before the move, *any incompatible receptacles at the receiving location must be changed out.* Sean Wilson will work with lab managers, investigators, and Facilities Management to prepare this catalog and schedule replacement of receptacles as needed.

Each long wall has several equally spaced connection boxes wired for central equipment monitoring for a total up to eight (8) per LE lab. These connections will be identified in the central monitoring system with the STRF room number followed by a number 1 through 8 beginning in the northeast corner of the lab and counting clockwise. Example 2xx.x-1.

All equipment to be connected to the central monitoring system needs to be identified, inspected and cataloged noting current location, destination location (lab room number and position, preceding paragraph), central monitoring sticker ID (if any), connection type (whether analog or binary), and name and contact information for person(s) to be called out in case of alarm. Sean Wilson will work with lab managers and investigators to prepare this catalog. Information in this catalog will trigger disconnections before the move and reconnections after the move.

Each long wall has two (2) or three (3) network data connections.

#### *Tissue Culture (TC) Labs*

Each TC lab has one (1) 110 Volt 20Amp NEMA 5-20R receptacle on emergency power located above each hood for a total of three (3). This is power to operate the hood. Each of the three hoods is also hard wired through armor conduit for two (2) duplex 110 Volt 5 Amp receptacles built into the hood.

On the wall opposite the hoods there are ten (10) 110 Volt 15 Amp NEMA 5-20R plugmold receptacles.

There are two (2) connection boxes for central equipment monitoring, one (1) above the hoods and one (1) on the opposite wall.

Each hood is plumbed for air, vacuum, and CO<sub>2</sub>.

Inside the door on the hood side there is a cylinder rack for two (2) CO<sub>2</sub> cylinders. Mounted on the wall above this is the CO<sub>2</sub> regulator/monitoring system. The pressure regulator is built into the unit. Two braided pigtails connect directly to the gas cylinders. The connection provided is male ¾ inch NPT. Low pressure CO<sub>2</sub> is piped in ¾ copper pipe from the regulator/monitoring system to the hoods on one wall and to a distribution point on the opposite wall for CO<sub>2</sub> to the incubators.

The distribution point is high up and in the center of the wall opposite the hoods and comprises ¾ inch copper

pipe with a ball valve ending in a male 3/4 inch NPT fitting that is capped off.

Before move in, low-pressure CO<sub>2</sub> manifolds need to be installed to distribute gas to up to six (6) incubators. Each manifold needs four (4) to six (6) brass or stainless steel barbed connectors for 1/4 inch Tygon tubing. These manifolds should be commercially available from gas or lab supply houses. The carbon dioxide system needs to be operable in designated TC labs before move in with staging incubators running and lined out.

#### *Fume Hood and Sink Alcove (FHSA) Labs*

Each FHSA lab has four (4) 110 Volt 20 Amp NEMA 5-20 plugmold receptacles on the wall opposite the hood and three (3) 110 Volt 20 Amp NEMA 5-20 plugmold receptacles adjacent to the hood.

#### **Lab Animal Resources**

Investigators are reminded to contact Dr. Hacker well in advance of the move to make arrangements to relocate animals.

#### **STRF Web Pages**

The web pages enable us to post large files that would be difficult to distribute by email. Please check from time to time for updated information: <http://research.uthscsa.edu/STRF/index.shtml>

The DI water system specification has been posted under STRF Building Information.

#### **STRF Administrative Office**

John Cole:  
Office 210-450-0150  
Cell 210-601-1074  
[colejf@uthscsa.edu](mailto:colejf@uthscsa.edu)

Sean Wilson:  
Office 210-450-0155  
Cell 210-260-9918  
[wilsonst@uthscsa.edu](mailto:wilsonst@uthscsa.edu)

07061411