

NIST Grant # 60NANB10D031
WHOI Project Number 49003100
Laboratory of Ocean Sensors and Observing Systems (LOSOS)
Progress Report 10 – 2nd Quarter 2012
Date: July 3, 2012.

Overall Project Baseline

The Woods Hole Oceanographic Institution (WHOI) received funding from NIST to construct a Laboratory for Ocean Sensors and Observing Systems (LOSOS). LOSOS will be an interdisciplinary center for scientists and engineers developing the next generation of sensors and supporting technology for ocean observation. It will specifically support the Ocean Observatories Initiative (OOI), the Martha's Vineyard Coastal Observatory (MVCO), the Ocean Bottom Seismometer Instrument Pool (OBSIP) and the Environmental Sample Processor (ESP) lab. The current planning provides for a 26,600 sq. ft. building on the WHOI Quissett Campus which will incorporate all of the scientific disciplines noted above. All aspects of the building function and operation, including sustainability and green construction are being incorporated throughout the project.

Update of Significant Results in Period

During this period, the installation of the miscellaneous exterior sheathing materials (Atlantic white cedar and architectural composite material) was completed including the installation of the overhead coiling doors. In April, the installation of the gypsum wallboard was completed along with the primer and finish paint in most areas. On May 18, the installation of the main air handling unit for the building was completed and began functioning. In June, the installation of the cabinets, casework and countertops was underway and the miscellaneous flooring materials were installed throughout the building including the ceramic tile, carpet and vinyl composition tile. During this quarter, the finish plumbing, electrical and HVAC and fire sprinkler piping work was substantially completed as well as the installation of the elevator. All of the mechanical systems are in the process of inspection and operational testing. The conservation restriction required for land adjacent to the project site was fully executed on June 15. The fire alarm system was inspected and tested by the local fire officials on June 19. The emergency generator, transfer switch and UPS were inspected and tested on June 26. The elevator was tested and inspected by the state officials on June 26. The exterior lighting review was performed by the Cape Cod Commission on June 27. The finish paving for the project was completed on June 28. The final site work details and exterior landscape work are continuing.

The project continues to track a LEED Gold certification as 36 points have been earned and 24 points are pending final review.

The architect and engineer performed several site visits to review progress and perform quality control as required. The construction manager, architect, engineering team and owner continue to work together to move the project forward and good, steady progress is being realized. The requests for information, submittals and other project document details continue to be processed as required to keep the project on schedule.

The internal construction web site continues to be updated regularly with information on the project and construction photos are provided to document the progress.

Milestones

Please see attached updated milestones chart dated 7.6.2012 (Project Schedule).

Technical Progress - Summary

- The installation of the exterior finish sheathing materials was completed.
- The installation of the gypsum wallboard is complete and the prime and finish coats of paint on the interior walls are substantially complete.
- The installation of the main air handling unit was completed and made operational on May 18.
- The installation of the cabinets, casework and countertops is ongoing.
- The installation of the floor finishes is substantially complete.
- The finish plumbing, electrical, teldata, HVAC and fire protection work is substantially complete.
- The conservation restriction was fully executed on June 15.
- The fire alarm system was inspected and tested on June 19.
- The emergency generator system was inspected and tested on June 26.
- The elevator was inspected and tested on June 26.
- The exterior lighting review was completed by Cape Cod Commission on June 27.
- The finished paving was completed on June 28.
- The project continues to track LEED Gold.
- The final site work and landscape work are underway.
- The architect and engineer performed several site visits to review progress and perform quality control.
- The construction manager, architect, engineering team and owner continue to work well together and progress is being realized
- WHOI continues to provide regular communication updates through the use of a website dedicated to the construction project.

Technical Progress - Implications

The construction continues and steady progress is being made.

Technical Progress – Current Status

The construction phase of the project continues and reasonable, steady progress is being realized by the construction team. The project is substantially complete and the expected occupancy date is July 2012.

Technical Progress – Mitigation of Risks

The construction activities include weekly construction meetings with the construction manager, architect and members of the design team as appropriate and the owner. This quarter included several pre-construction meetings with specific trade contractors to ensure the entire scope of the required work was fully understood including all performance expectations. A safety review of the ongoing activities on the project is performed by safety professionals on a regular routine basis independently by the construction manager and owner. Any observations of concern are addressed immediately. The results of such meetings including daily communications of needs and expectations by all team members will continue to prove very beneficial in mitigating risks throughout the project.

Summary of Proposed Changes

There are no proposed changes to the scope of the project since the last report.

Problems and Opportunities

Problems – (None)

Opportunities – We will continue to pursue opportunities to add value to the overall project.

Organizational Issues

(None)

Upcoming Meetings and Project Events

Meetings

We continue to hold weekly construction meeting throughout the duration of the project.

Project events

An opening ceremony for the laboratory is being planned and dates for the event are being finalized.

Respectfully submitted

Ernest G. Charette

