

Project: T-350-M

Project Principal Investigator: Dr. Charles Bentley

Report No: 3 for period 11-29-10 through 12-5-10

Prepared by: Kristina Dahnert Date: 12-5-10

IDDO Personnel on Site: Patrick Cassidy (MCM as of 11/26/10)

Kristina Dahnert (WSD as of 11/22/10)

Dave Ferris (MCM as of 11/26/10)

Josh Goetz (WSD as of 12/1/10)

Mike Jayred (WSD as of 12/1/10)

Jim Koehler (WSD as of 11/22/10)

Nicolai Mortensen (WSD as of 12/1/10)

Elizabeth Morton (MCM as of 11/26/10)

Steve Polishinski (WSD as of 12/2/10)

John Robinson (MCM as of 11/26/10)

ACTIVITIES DURING PERIOD

- Elizabeth is now coordinating cargo forwarding in MCM
- Dave, Elizabeth, John and Patrick are scheduled to fly to WSD this

coming week

- Installed MECC doorstop and step
- Moved control room 2" toward slot for blue gantry clearance
- Installed mill and lathe digital readouts
- Dug out fan room in conjunction with D4 support
- Wireless system installed in Arch; Steve performed additional testing

and work on this system on Saturday and Sunday, as the Arch network would

not transmit back to camp and wireless was not available in the Arch

Jamesway or MECC as planned

- The large DISC Drill doors have now been opened and grooming continues outside

- Tower tilted vertical while shaving high spots of slot walls away; this

made way for the excavation bucket used by the carpenters

- Josh, Mike and Nicolai arrived at WSD on Wednesday, 12/1/10 along with

most of the remaining DISC Drill cargo. We are still waiting for the

Instrument sections that are in MCM. Two other non-essential pieces for

the core barrel warming bath have yet to arrive in MCM.

- Steve arrived at WSD on Thursday, 12/2/10 along with SCO Rep Don Voigt

and 4 science techs

- Re-leveled centrifuge, centrifuge collection tank, tower hydraulic unit, optical table and control room.
- Installed PLC and timer in centrifuge and tested system
- Installed batch controllers on fluid mixing tank
- Unpacked blue crate
- Installed new level wind drip pans
- The carps began excavation of the slot walls on Thursday, 12/2/10. This is a time-consuming process. The current plan is to continue cutting back the wall on the control room side and then only shave the other wall in high spots. Completely excavating both sides would tie up the blue crane and extend the carpenters work until at least 12/10/10, so only the one side will be fully excavated as originally planned. The floor and railings have been cut back on both sides, so the tower is now free at its pivot point.

- Organized electrical bench in MECC
- Organized parts and tested LVDT board; it is functioning well
- Updated wiring schematic for LVDT board
- Installed Arch ventilation VFD and tested system
- Set up drill fluid filling station out by the fluid berm
- Assembled screen barrels with new stabilizer sections
- Assembled core barrel
- Began grooming fluid berm and brought Isopar bulk tank down from winter berm

- Hung air monitor in control room
- Cleared snow blocks from the slot on Sunday to expedite the excavation.

The carps will chainsaw on Monday and four drillers will work after dinner to remove the blocks.

- Installed the crown sheave

SAFETY

- Nicolai sustained a very, very minor laceration while cutting a zip tie off of a hose. A report has been completed simply due to the increased healing time of Antarctic injuries and the increased risk for infection.

This report will be filed upon my return to Madison in February.

COMMENTS

(Problems, Concerns, Recommendations, Etc.)

- I have emailed Cara Ferrier in MCM and Matthew Kippenhan in Denver again regarding electrician support for WSD. We installed the Arch ventilation system VFD this week and the system appears to be working, but this was traditionally a RPSC responsibility. I have not looked at the fire alarm system yet, which is also a Raytheon system. While we are certainly willing to assist in any way possible, many of these tasks fall outside of our expertise and abilities.
- Slot progress continues, but semi-shift work is required to expedite the excavation. We now plan to remove snow on only the control room side. This was originally in the pre-season operations plan, but carpenter support is limited. While 6-8 carpenters were onsite for minor and cosmetic fixes to the slot last season, only 4 carpenters are onsite for both slot work and Arch repair this season.