



PROJECT SITUATION REPORT DISC Drill 09-10 Season

Project:	T-350-M				
Project Principal Investigator:	Dr. Charles Bentley				
Report No:	3	for period	11-23-09	through	11-30-09
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ACTIVITIES DURING PERIOD

- Patrick arrived in MCM on Monday.
- Krissy, Nicolai, and I flew to WAIS Divide on Wednesday.
- Josh, Ben, and Robb arrived in MCM on Friday.
- Work in the arch started by removing the tarps from equipment and removing snow that accumulated in the building over the winter. There were only small amounts of snow near the power panels. There was a large drift in front of one of the big doors because the vent turn downs were not removed for the winter and the snow load ripped them off the arch. This left two large holes for snow to enter in.
- The generator was brought on line Thursday afternoon.
- Leveled the control room to compensate for the floor heaving by adding another 1 ½" thick board under the side nearest the arch wall. There is now a total of 3" of shim.
- Adjusted the screen cleaning system to realign the tilt stage with the vibrator table.
- Leveled the centrifuge. Added another ¾" to the back edge for a total of 1 ½" of shim.
- Powered up the tower hydraulics. The slot walls will need some trimming so the tower can be tilted. The slot opening through the floor has clearance to the tower so it will not need any modifications. The carpenters will start the slot work next week.
- The end of the arch was buried up to the peak of the roof. The equipment operators were finishing digging out the doors on Sunday evening.

- The MECC has been moved into place, was set up, and it is fully operational.
- Both gantry cranes are up and running.
- Moved the floating crane rail ~2" in the mid area (away from the slot) to put the rails at the proper spacing. The rail has been moved a total of 5" which is an indication of how much the building has been squished at the mid point.
- The centrifuge controller has been installed and it powers up, but the nitrogen hasn't been hooked up so we haven't been able to fully test it yet.
- Removed the crown sheave and pulled the bearing hub to machine it for the new bearings. I found the hub is 1/2" narrower than the drawings from Inter Ocean called it out to be. The new bearings are too wide to work with the existing hub. I ended up adding a second set of the existing bearings so the hub now has four bearings. The second set of bearings will help share the load and hopefully get us by until a new solution can be worked out.
- Checked the bore hole fluid level. It measured 242.5' (74m) from floor level. The level at the end of last season was 246' (75m). The increase in fluid level is most likely due to the bore hole slightly shrinking over winter. Assuming even hole closure, a hole diameter change of .0025" would give 1m of fluid rise.
- Installed the level wind control arm. The potentiometer housing hit the junction box mount when the sheave is pivoted up. Shortening the mount solved the problem.
- Installed the batch controllers in the fluid handling system and tested it. Fluid has not been added to the system yet, but the controls all work.
- Reorganized the power and signal cables connecting the winch, winch power cabinet, and control room to separate the power and signal cables so they don't cross talk.
- WAIS celebrated Thanksgiving on Friday evening.
- We did a two hour late start on Saturday and then worked a full day on Sunday.

SAFTEY

- Nothing at this time.

COMMENTS

(Problems, Concerns, Recommendations, Etc.)