ISSUES FROM MECH GROUP MEETING – FEB 18/03

ISSUES THAT REQUIRE IMMEDIATE ATTENTION
****** DO TO SAFETY CONCERNS ******

1) A fork lift is much needed. The current handling methods are getting close to exceeding capacity (i.e. gibe crane) or are difficult to use (handling cart, balanced with lots of lead plates).

   - George is instructed to identify an item for purchase, and to get the quote to Alan.
   - Alan will look into identifying money for this item.

2) The trolley on the crane could use an access ladder.

   - Tim will look at this on his next visit over. If something simple can be made in house, then we will proceed. Otherwise an outside contractor/welder will be hired to fabricate.
   - Possible contractor is the one that made the mezzanine platform.
   - Alan will look into identifying money for this item.

3) Several deficiencies identified by crane inspector need to be attended to.

   - These are to be Sammy’s highest priority.
   - If it will expedite the process, we should get a quote from the company that did the inspection, to get them to do the repairs.
   - Alan will look into identifying money for this item.
ITEMS FOR TIM
LISTED IN ORDER OF PRIORITY

1) The configuration issues with the new NSFcam upgrade (interference with the yoke) need to be sorted out.

2) Spare telescope drive motors need to be spec'ed/purchased.

3) The 4 bolts used to attach instruments to the spool are difficult to access (and these are accessed regularly).
   - Vern is already working on this problem.
   - Tim will expedite/follow up.

4) There needs to be some sort/form of rotation scale on the instrument rotator or spool.
   - Vern is already working on this problem.
   - Tim will expedite/follow up.

5) Moveable counterweights need to be audited, and (possibly) new set fabricated.
   - NSFcam upgrades must be taken into account first.
   - UPS problems must be sorted out as well (Fred).

6) The shutter and dome support design needs to be investigated, and a preventative maintenance schedule needs to be developed. Some particulars include:

6.1) One of the dome drive motors has problems with it's gear head (possibly stripped).

6.2) Dome support wheels are in constant need of alignment.

6.3) Review access to the shutter wheels - currently is quite difficult, and needs improvement (the side panels to the cars).

6.4) All of the shutter wheels need to be greased.

6.5) The shutter bottom wheel may have been damaged recently in an incident where the shutter drive was released, and the door slammed shut.
   - Tim will investigate, and develop a plan.
   - Identified Steve Gunnels as possible consultant on this issue.
   - Alan may need to find money if we consider using Gunnels.
7) Preventative maintenance needs to be identified and performed on the MIM and Instrument area (including ram and platform). Some particulars include:

7.1) The MIM truck rollers/rails need to be realigned.

7.2) The stop locks for the instruments are jamming or are out of alignment.

7.3) The platform is in need of attention / overhaul.

7.4) The hydraulic ram for the primary needs maintenance. It will be needed again in 2-3 years. Possibly sooner.

    - Tim and Sammy will discuss and formulate plans.
    - Maybe possible to use crane/hoist contractor to do hydraulic ram maintenance.
    - Darryl will be available to help after May. Also possible Hilo shop help.

8) Blue prints need to be consolidated, sorted, and copied.

    - Piotr (student help) to be used as a resource for this.

9) A guider handling cart needs to be procured.

    - Ask Lars for clarification as to what is required here. Guider cart, sensor handling cart, and/or APD handling cart.
    - Vern to do actual work here.
    - Tim will expedite/follow up.
ITEMS FOR DAY CREW / OUTSIDE HELP
HIGHEST PRIORITY

1) North pier wire wrap is starting to wear. Needs maintenance.
   - Tim and George to discuss at next visit.

2) Fill is required for the water tank and telephone box (erosion mitigation).
   - Outside help is already looking into this.
   - George to contact Ron ……. If delayed to long.

3) A humidifier for the control room needs to be purchased.
   - Sammy to retrieve his previous quote for this item.

4) The spare Ice Wagon chiller needs to be installed and tested in the machinery room.
   - Sammy to do when time available.

ITEMS FOR DAY CREW / OUTSIDE HELP
MEDIUM PRIORITY

1) The spare compressor for the floor chiller needs to be rebuilt.
   - George to get three outside quotes to do the job.
   - Alan will investigate a source for money for this item.

2) The air compressor tank and dryer need preventative maintenance work performed on them.
   - Tim George and Sammy will discuss this item on Tim’s next visit.
   - Sammy to do the work.

3) Helium lines are requested for the Instrument handling area.
   - Lars and Darryl to do this when Darryl becomes available (after H85 work. Probably June)
ITEMS FOR DAY CREW / OUTSIDE HELP
LOWEST PRIORITY

1) The back door needs work/repairs.
   - Tim will look into on his next visit.

2) Access holes to the glycol system bleed valves need to be made in the mezzanine floor.
   - Sammy (or possibly Maury) to do when time becomes available.

3) Possible leaks in the roof need to be found/identified and repaired. This issue may go away with the installation of the new dome seals.
   - nothing to be done here until after dome seals are complete.

4) Training is requested for summit machine shop tools, welding, and HVAC recovery.
   - TBD.