Tasks accomplished previous week (ending Oct 14th)

Corey

1. **Worked on** performance appraisals for employees that I supervise.
2. **Answered questions** from PHPK regarding fabrication of the LCLS-II Warm He Compressors.
3. **Worked with** B. Hunewill to develop the design of the MSU FRIB HP Compressor Transmission Coupling Removal Jig/Tool.
4. **Attended** a CTF Upgrade Meeting on Oct 13th at 1:30pm.
5. **Created** a STEP file of the Hall D Gas Management Rack Assy for S. Yang.
6. Currently, developing the design for the MSU FRIB LP, LPL & MP Compressor Transmission Coupling Removal Jig/Tool.

P. Hansen

1. **Oversaw** creation of new dwg depicting hole locations and sizes for the LCLS-II Warm He Compressor Shear Keys in the CP1 and CP2 Compressor Room Slabs. This dwg will also source all Hilti anchors and the epoxy used to install them.
2. **Consulted** with J. Bartholomew on the LCLS-II Cryogenic Plant upper level assembly structure.
3. **Met with** M. Bevins & S. Kaminksi to discuss what is needed for the upcoming review at JLab on Tuesday Oct 18th.
4. **Continued** checking the Crane Duo-Chek valve and Jamesbury valve reuse library parts.
5. **Worked on** performance appraisals for employees that I supervise. Half of the performance appraisals for which I am responsible are done.
6. **Worked on options** for rearranging the stairs around the Air Liquide Upper Cold Box. Presented three different design options to M. Bevins for review.
7. **Corrected** CP1 and CP2 trench NX part model. Awaiting confirmation from SLAC as to whether the latest changes are indeed what will be done regarding the location and design of the sump pump.
8. **Need to rework** some water piping at the trench cross-overs as a result from the latest modification to the trench NX part model.
9. **Went to the shop** with D. Oprisko to take a look at how weld-o-lets are installed on the piping. Using the information observed to develop a JLab standard dwg for weld-o-let installation on piping.
10. **Awaiting** a new 3D model from PHPK for the Air Liquide 4.5K Cold Box. PHPK will be sending one file for the Lower Cold Box and one file for the Upper Cold Box.

P. Stewart

1. **Made copies** of the CTF Cold Box 3 dwgs and gave them to T. Wijeratne. (Dwgs 72620-0003 RevB & -0006 RevB).
2. **Made copies** of dwg 71900-0283 and gave them to A. Saringer. (This is the Standard Recovery Compressor He Suction Spool dwg)

3. **Created** several new dwgs for the JLab Standard Recovery Compressor Skid per C. Butler and A. Saringer. The following dwgs were created: 71900-0282, -0284, -0285 & -0286. Gave copies of these dwgs to C. Butler and A. Saringer for checking.
4. **Started working on** the CTF Cold Box 3 Installation Overall Layout dwg (72200-0100).
5. **Made changes** to assembly 72700-0092 (CTF Cold Box 3 LN2 Spool) per T. Wijeratne. Also updated this dwg to revision B. Gave a copy of the dwg to T. Wijeratne for review.

Damon

MONDAY 10/10/16

1. Reworked instrument air header & feeds.

TUESDAY 10/11/16

1. Reworked hurricane relief assembly.
2. Reworked guard vac & 3atm He lines to LS1.

WEDNESDAY 10/12/16

1. Attended MSU Frib design review.
2. Created step file for test to turn over models to MSU
3. Reworked structural column shielding.

THURSDAY 10/13/16

1. Worked Pipe Supports
2. Worked with R. Norton to get electrical & instrumentation components added to the model.

FRIDAY 10/14/16

1. Worked with R. Norton to get electrical & instrumentation components added to the model.

Craig

1. **Revised** drawings 71800-0072, -0074 and -0076. These drawings have been approved in E-Sign.
2. **Drawings** for water lines for Guard Vac Skid: 71800-0080 through -0094, -0101 and -0102 have been **approved** in E-sign.
3. **Changed material** specs on CHL Recovery Compressor water piping dwgs from 304/304L to 316/316L. Piping design was reviewed and changed material on all dwgs back to 304/304L per K. Dixon.
4. **Created** and **sent out** updated and editable material specification list for the cryo group designers.
5. **Started incorporating** red line comments to the HD ICE mark-ups.
6. **This week** I'm **concentrating on HD ICE**. I am taking Thursday and Friday off (10/20/16 and 10/21/16).

Michael

Attended design review meeting on Dewar Transfer Line -0047

- Discussed changes

Worked on -0047 Dewar Transfer Line

- Implementing changes
- Converted drawings to pdf format
- Asked internal group to review
- Worked on Installation drawing Dewar Neck Can/Dewar Transfer Line

Worked on -0033 Dewar Neck Can Assembly

- Received MSU mark-ups
- Fixed drawings based on MSU suggestion
- Created report and re-submitted to MSU

Worked on -0020 U-Tube assembly

- Communicated with MSU engineer regarding U-tube design
- Started U-Tube design

Jim

1. **Updated slab models on cooling water assemblies**
   79120-077 & -0720

2. **Added bellows to new MP & HP compressor model icons**
   79120-0201 & -0301

3. **Updated compressor icons in CR1 and CR2**
   79120-0026 & -00027

4. **Realigned He and H2O spools to all CR1 compressors in models**
   79120-0494 & -0714

5. **Created 2 new stair concept models for upper cold box**
   15-5032-0300 Rev0 MODIFIED STAIRS

6. **Created 2 new stair concept models for lower cold box**
   79120-0025 MODIFIED LCB STAIRS

7. **Modeled new sump discharge lines for east & west trench**
   SUMP DISCHARGE - WEST
   SUMP DISCHARGE - EAST

Thomas

1. CREATED FLEX HOSE DRAWINGS 75600-1061, 1062, 1063, 1065 AND 1066.
2. CREATED ADAPTER PLATE DRAWINGS 75600-1016, 1019, 1052 AND 1064.
3. CREATED DRAWINGS FOR VACUUM BREAK ASSEMBLIES 79720-2042 AND 79720-2043. THIS INCLUDED DRAWINGS FOR THE END CAPS AS WELL.
4. ADDED BELLOWS SEALED VALVES TO 2 NPS CHe FILTER ASSEMBLY.
5. HANDED OFF FINAL UPDATES OF LN2 AND GN2 PIPING ASSEMBLIES.
6. BEGAN PLACEMENT OF PIPE SUPPORT WELDED STRUCTURAL STEEL ON NORTH SLAB. PERFORMED MODIFICATIONS ON STEEL MEMBERS AND PIPE PATHS AS NECESSARY.

Andre'

1. **Modified** model and created drawing of the following: T30201-MDE-0025-0006, T30000-MDE-9001-1201, T30000-MDE-9001-1543, T30201-MDE-0022-0018, T30000-MDE-9003-1202
2. **Converted** (20) drawings to pdf format for the Coalescer Oil Piping Layout and sent off for review.
3. **Weekly review meeting** with V. Ganni, K. Dixon, N. Laverdure & T. Nellis.
4. **Meeting** with N. Laverdure to discuss questions from D. Brown about Indoor Coalescer drawings.
5. **Worked** on creating pipe route model for 3 Atm Helium piping.
6. **Made** corrections to the Indoor Coalescer piping per redlines from D. Brown and N. Laverdure.
7. **Modified** models and created drawings for Outdoor Coalescer piping and sent out for review.

Adrian

<u>Monday, October 10</u>
Continue working on Horizontal LS1 West transfer line drawings

<u>Tuesday, October 11</u>
Attend Review meeting with T.Nellis, S.Young, N.Laverdure, K.Dixon
Continue working on Horizontal LS1 West transfer line drawings

<u>Wednesday, October 12</u>
Finalizing Horizontal LS1 West transfer line drawing set
Create PDF flies

<u>Thursday, October 13</u>
Prepare the review package and sent it to the review team
Start working on Special Horizontal LS3 transfer line

Friday, October 14

Working on Special Horizontal LS3 transfer line

Discussion with Shirley and apply a design change she requested -

remove notches from the anchor plate for the 10" pipe

Resolved red marks from Shirley on LS1 transfer line

Create PDFs and resent for review the drawings affected by the design change

Cindy

1. **Changed** 9 1/4 bayonet on both can A&B to one with heat ring added copper shield and copper braid.
2. **Created** custom c-clamp models for transfer line 55k pipe support for transfer lines A&B and added to to models.
3. **Made adjustments** to Can A G10 support and adjusted wheel size and position.
4. **Created** Drawing formats for Can B and Transfer Line B creating arrangements and a check print for design review with Hung you- pro-actively getting drawing packages preparation.
5. **Continued** to develop Thermal Shields throughout transfer lines and interior cans.

Dan

1. **Updated** changes to LCLS-II CP1 and CP2 trench detail dwgs per P. Hansen.
2. **Generated** MP & HP Icons for the LCLS-II Warm He Compressors and forwarded them to J. Bartholomew for placement in upper level CP1 & CP2 Compressor Room Assemblies.
3. **Started** reviewing the latest Air Liquide model for the 4.5K Cold Box. Trying to simplify a version of the Upper and Lower Cold Boxes which can be used in the Cryogenic Plant Layout Assemblies.
4. **Worked with M. Wade** in developing the Crane Duo-Chek II and Jamesbury Butterfly valve reuse library hardware set and gasket dwgs. Provided direction on formatting for dwgs to M. Wade.
5. **Met with** B. Crahen to discuss the Guard Vacuum Skid and Recovery Compressor drawings.
6. **Worked with** G. Hays to resolve an error Gary was experiencing with a NX drawing.
7. **Continued** detailing the PLC electrical enclosure box and Transformer electrical enclosure box used on the new LCLS-II Recovery Compressors. These drawings are almost done.
8. **Continued** to evolve the LCLS-II He Dewar design per H. Bai.

Randy

1. Added holes for components in 10 NPS Line B and 24 NPS vacuum jacket pipes.
2. Added ¼" rolled plate make-up clamshell for join to Fermi Lab transfer line.
3. Created and added pipe clamp anchors for 2 NPS process lines.

4. Added Nu-Pro / Swagelok SS-4H-TH3 valve for Line A, C, and E process pressure taps and for venturi flow meters per request of Chris.
5. Updated adjustable support model with valid part and hardware entities at the request of Connor Kaufman to support structural and seismic analysis.
6. Altered the sweep of the support saddle plate to 120 degrees per Connor Kaufman to suit ASME guidelines.

Rev: 0
Corey R. Butler
17OCT16

Notes: