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Reports until 13:40, Tuesday 11 November 2014

H1 SUS[Link](#)

jeffrey.bartlett@LIGO.ORG - posted 13:40, Tuesday 11 November 2014 (14979)

3IFO Suspensions Storage

Jeff B., Andres R., Mitch R., & Joe D.

We secured the last **two suspensions in the HAM ISI Storage Container #1** this morning. After replacing the top, Bubba craned the container back over the beam tube to its parking position next to the N2 manifold.

Counts before and during work were <100 0.3 microns and larger range. After the C3 cover was put over the suspensions the counts spiked to 50 of 0.3, 320 of 0.5, and 70 of 1.0 microns. These dropped back to the normal levels within 5 minutes after the cover was secure.

The LVEA has been returned to full laser hazard. The cleanrooms have been turned off. The work area is ready to receive HAM ISI Storage Container #2. We will move this into place when the next group of suspensions are ready for storage.

Images attached to this report

Displaying report 1-1 of 1.

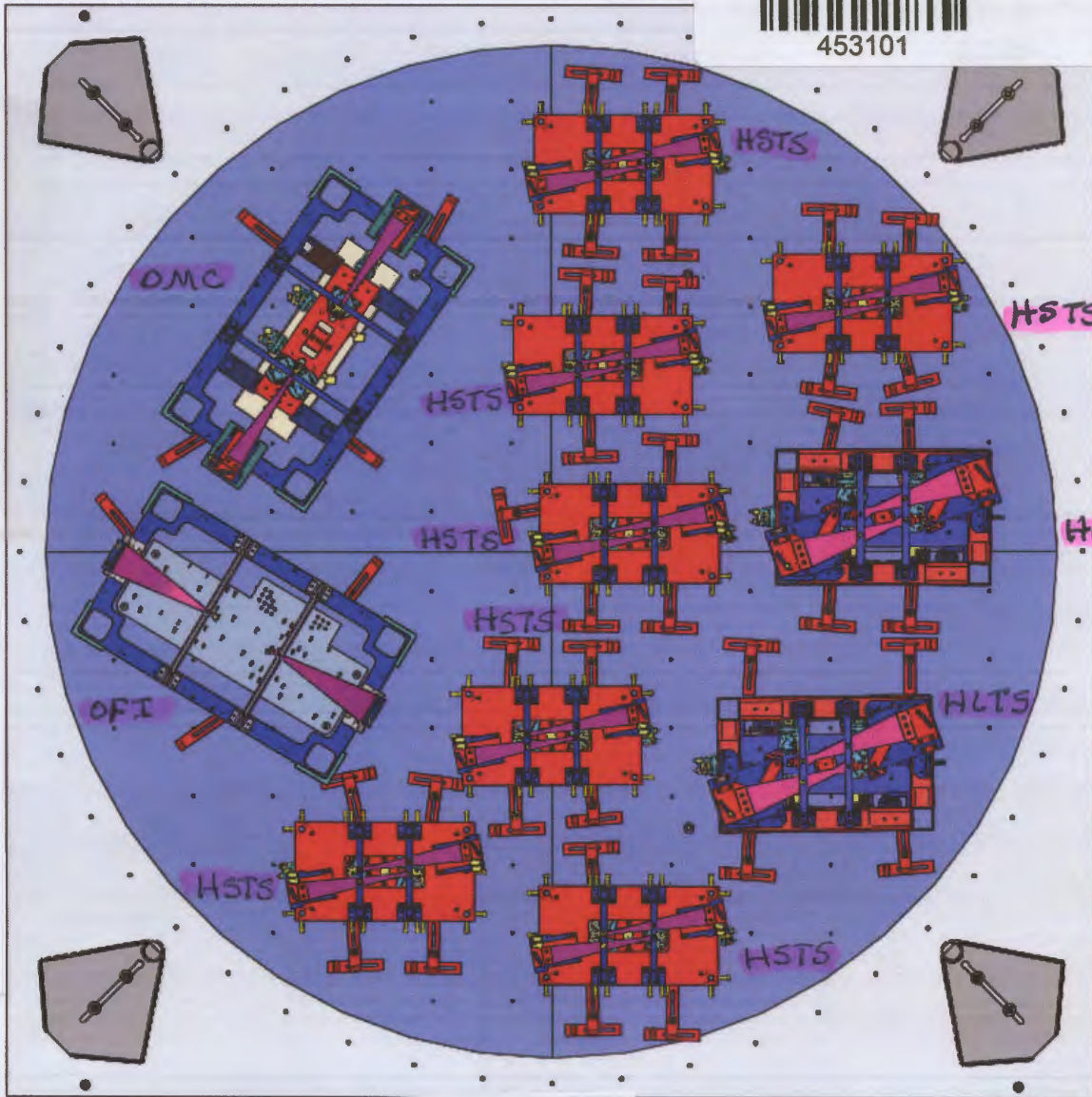
D1300146-v7 3rd IFO, HAM Storage Container Conversion for SUS

3-SUS-Storage Container 1

Container # 1 of 3, All HSTS & OMC & OFI



453101



3-OMC-Weldment



952201

3-OFI-Weldment-D0900655-2



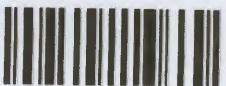
952101

3-SUS-HLTS-D070447-1-PR3



452201

3-SUS-HLTS-D070447-5-SR3



452202

3-SUS-HSTS-D020700-117-PRM



452301

3-SUS-HSTS-D020700-118-PR2



452302

3-SUS-HSTS-D020700-504-MC2



452303

3-SUS-HSTS-D020700-507-MC1



452304

3-SUS-HSTS-D020700-508-MC3



452305

3-SUS-HSTS-D020700-509-SR2



452306



452307

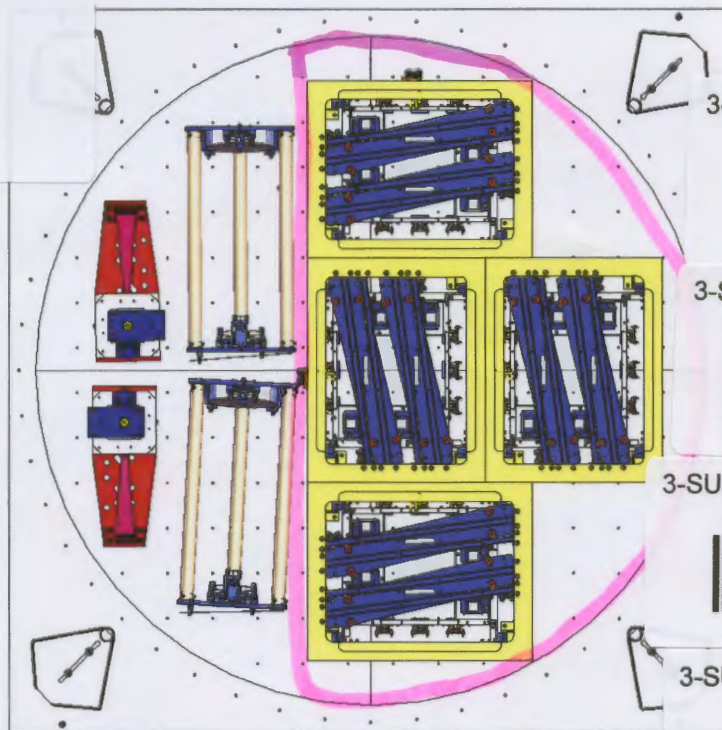
3-SUS-HSTS-D020700-511-SRM

Container # 2 of 3,

3-SUS-Storage Container 2



453102



3-SUS-BSC1-QUS-01



452501

3-SUS-BSC2-QUS-02



452502

3-SUS-BSC4(X)-QUS-03



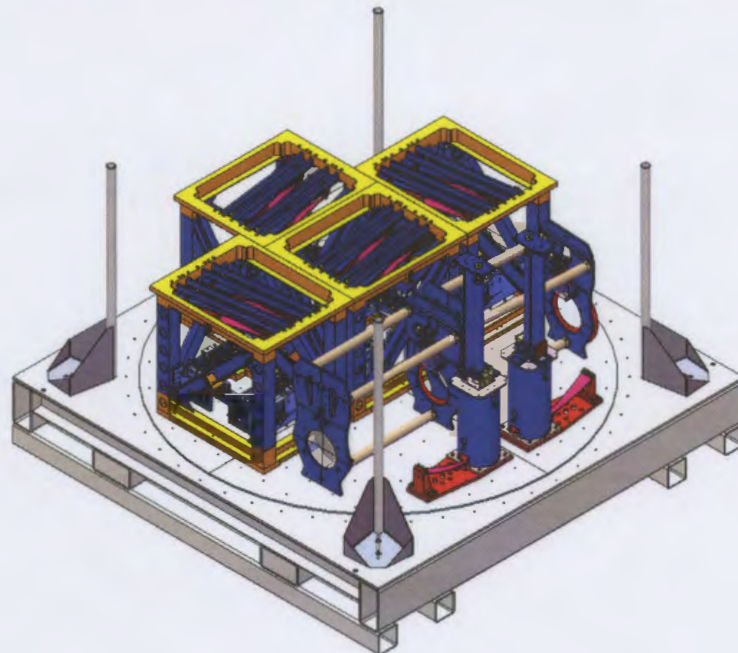
452503

3-SUS-BSC5(Y)-QUS-04



452504

4 Quad Upper Structures, 2 Elliptical Baffle SUS, 2 TMStele



Subject: 3IFO SUS Storage Container #1

From: Jeffery Bartlett <bartlett_j@ligo-wa.caltech.edu>

Date: 11/11/2014 2:03 PM

To: Calum Torrie <ctorrie@ligo.caltech.edu>, Norna Robertson <nroberts@ligo.caltech.edu>

CC: Marty Levine <Levine_M@ligo-wa.caltech.edu>, Mike Landry <mlandry@ligo-wa.caltech.edu>, Jodi Fauver <fauver_j@ligo-wa.caltech.edu>, Betsy Weaver <weaver_b@ligo-wa.caltech.edu>, Andres Ramirez <ramirez_a@ligo-wa.caltech.edu>

Calum,

The HAM ISI Storage Container #1 is loaded, sealed, and back in its parking position next to the N2 manifold; [aLGO #14970](#). It is ready to have the Nitrogen purge connected. There were no issues or problems encountered that had not been covered in yesterday's E-Mail.

We have reset the work area and cleanrooms for the next container. As there are several suspensions to be completed before the next container is ready to be loaded, we opted not to move container #2 into the work area.

The surface contamination was minimal and I have a few pictures of the worst areas.

Regards,

--

Jeffrey Bartlett
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aLIGO Lead Suspension Assembly Tech

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Reports until 14:50, Monday 10 November 2014


H2 SUS [Link](#) 

jodi.fauver@LIGO.ORG - posted 14:50, Monday 10 November 2014 - last comment - 15:30, Monday 10 November 2014(14947)

3IFO Storage Container Transfer

Jeff B and crew (Andres, Mitchell, Joe D, Chris S) and grounding plugs to and loaded **eight of the nine HXTS** and **the OMC** into the modified HAM ISI storage container this morning. The work went more quickly than we estimated.

Images attached to this report



Comments related to this report [Link](#)

jeffrey.bartlett@LIGO.ORG - 15:30, Monday 10 November 2014 (14955)

All the suspensions loaded thus far looked very good after their couple of years in the wine barrels. All magnets are still in place, no "rust" was noted on the blades or wires, no masses have shifted on their stops, and no wires have broken. There was no visible contamination on any of the suspension parts.

Particle counts taken before, during, and after the work show <100 counts of 0.3 micron particles and less for larger particle sizes.

Displaying report 1-1 of 1.

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Reports until 15:42, Tuesday 13 January 2015

H1 SUS [Link](#)

jeffrey.bartlett@LIGO.ORG - posted 15:42, Tuesday 13 January 2015 (16048)

3IFO Storage Container #2

Jeff B & Andres R


This morning we loaded the 4 3IFO Quad Upper Structures (Quad-6, Quad-7, Quad-8, & Quad-9) onto the HAM ISI storage container #2. No issues or problems were encountered during the load. We will load the 2 TMS telescopes and Elliptical Baffles into this container during the week as opportunity allows.

suspensions

Displaying report 1-1 of 1.

Displaying report 1-1 of 1.

Reports until 13:46, Tuesday 20 January 2015

H1 SUS[Link](#) 

jeffrey.bartlett@LIGO.ORG - posted 13:46, Tuesday 20 January 2015 (16159)

Load of HAM ISI Suspension Storage Container #2

Bubba G., Andres R., Mitch R., Jeff B.

This morning Mitch and Jeff finished loading the **Elliptical Baffles** into HAM ISI Storage Container #2. Jeff added a 4" witness wafer. After securing the top on the container it was craned over the H2 input arm and placed into its final long-term storage position.

We next craned the 3IFO BSC #4 container into its final long-term storage position.

This container was the last of the suspensions long-term storage containers to be filled and stowed. The cleanroom and dust monitor (#10) supporting this effort have been powered down.

Images attached to this report

Displaying report 1-1 of 1.

D1300146-v7 **3rd IFO, HAM Storage Container Conversion for SUS**

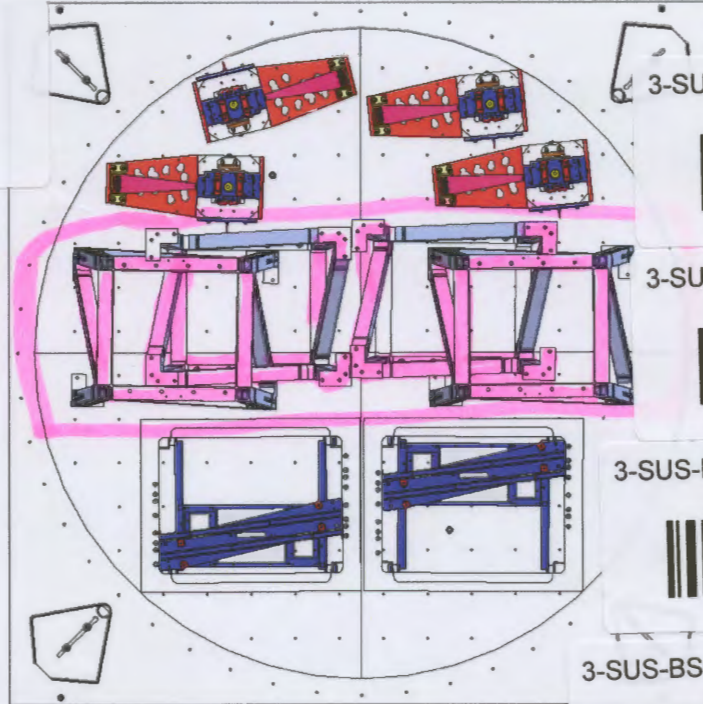
Container # 3 of 3

4 AOS baffle suspensions, 2 TMS upper structures, **4 SUS ITM/ETM Sleeves**

3-SUS-Storage Container 3



453103



3-SUS-BSC1-Q-Sleeve-01



451101

3-SUS-BSC2-Q-Sleeve-02



451102

3-SUS-BSC4(X)-Q-Sleeve-04

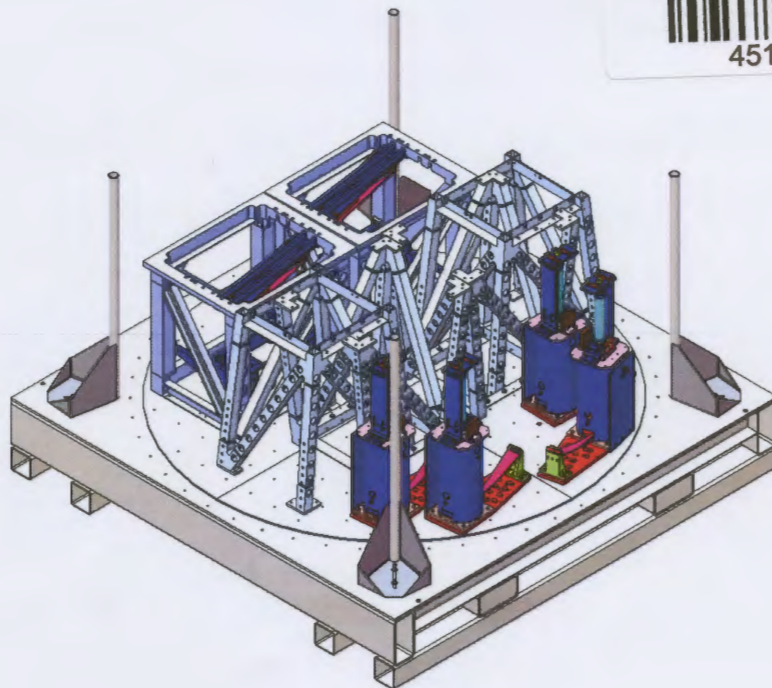


451104

3-SUS-BSC5(Y)-Q-Sleeve-05



451105



Subject: 3IFO Storage Container #3
From: Jeffery Bartlett <bartlett_j@ligo-wa.caltech.edu>
Date: 12/2/2014 3:28 PM
To: Calum Torrie <calum.torrie@ligo.org>
CC: Norna Robertson <nroberts@ligo.caltech.edu>, Jodi Fauver <fauver_j@ligo-wa.caltech.edu>

Calum,

We completed loading (well almost I need to get 2 more 1/4-20 x 3" SHCS for the last two dog clamps) the 3IFO Storage Container #3. The plan as drawn on page #3 of D1300146 did not work all that well, so we rearranged the load. See aLOG #15386 for photos and details. Who should I contact about updating the drawing?

I am planning for the top to go back on Storage Container #3 as soon as we can get permission from the commissioners to use the crane (next Tuesday at the latest) and then we will swap Container #3 and Container #2 for the last load. We need to have (1) the last Quad from Betsy, (2) the TMS telescopes to be craned over the beam tube and (3) the Elliptical baffles to be build before we can load the last container.

Regards,

--

Jeffrey Bartlett
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Author(s): 15386 (Any)
Keyword(s): 15386 (Any)

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Reports until 15:17, Tuesday 02 December 2014

H1 General [Link](#)

jeffrey.bartlett@LIGO.ORG - posted 15:17, Tuesday 02 December 2014 (15386)


3IFO Suspensions Storage Container #3

Andres R., Mitch R., and Jeff B.

We completed the loading of the HAM ISI 3IFO Storage Container #3. The suspensions would not fit as specified on page #3 of D1300146. We rearranged the suspensions so (1) the TMS Upper Structures were centered and moved as far towards the edge as could be, (2) the Quad sleeves are still in the center of the container but two had to be rotated 90° so they would stack, and (3) the AC baffles were placed around the edges at 45°, 135°, 225°, and 315°. See photos below. We encountered no other serious issues.

suspensions

Images attached to this report



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Reports until 13:54, Tuesday 20 January 2015

H1 SUS

[Link](#)

jeffrey.bartlett@LIGO.ORG - posted 13:54, Tuesday 20 January 2015 (16161)

Crane 3IFO BS and SUS LS Containers

Andres R., & Jeff B.

We craned the 3IFO Beam-Splitter storage container and the four (4) Quad Lower Storage containers (for Q6, Q7, Q8, & Q9) over the H1 Input arm and placed them into their final long-term storage positions. These containers are ready to be connected to the N2 system.

Images attached to this report



3-SUS-BSC3-BS-02



452101

3-SUS-BSC1-QLS-01



452601

Displaying report 1-1 of 1.

3-SUS-BSC2-QLS-02



452602

3-SUS-BSC4(X)-QLS-03



452603

3-SUS-BSC5(5)-QLS-04



452604

Subject: 3IFO Storage Moves

From: Jeffrey Bartlett <bartlett_j@ligo-wa.caltech.edu>

Date: 1/20/2015 2:09 PM

To: norna Robertson <nroberts@ligo.caltech.edu>, Michael Landry <landry_m@ligo-wa.caltech.edu>

CC: Andres Ramirez <ramirez_a@ligo-wa.caltech.edu>, Jodi Fauver <fauver_j@ligo-wa.caltech.edu>, Betsy Weaver <weaver_b@ligo-wa.caltech.edu>

Norna & Mike,

This morning Andres and I, with much help from Mitch and Bubba, completed the 3IFO suspension storage project. All three HAM ISI Storage Containers and their contents (per D1300146) have been craned into their final long-term storage locations and are ready for the N2 back-filling. (aLOG #16159)

Andres and I craned the 3IFO BS, and the four (4) Quad Lower Storage Containers into their final long-term storage location. These containers are ready to be connected to the N2 system. (aLOG #16161)

As far as I know, this (with the exception of some minor tool cleanup) completes the 3IFO storage tasks assigned to Andres and myself in the LVEA. We have some more count, bag, and stow activities in the staging building, but the bulk of our known 3IFO tasks are completed.

Regards,

--

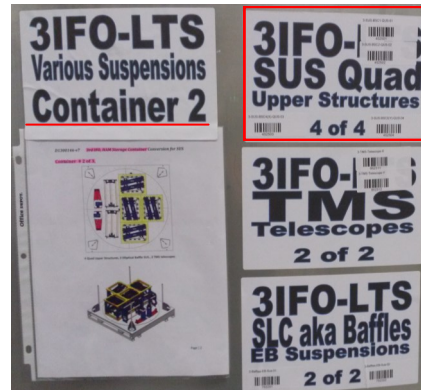
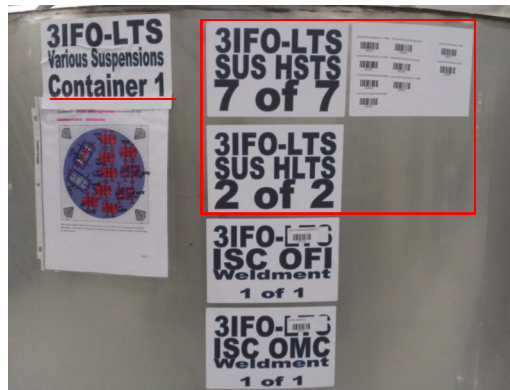
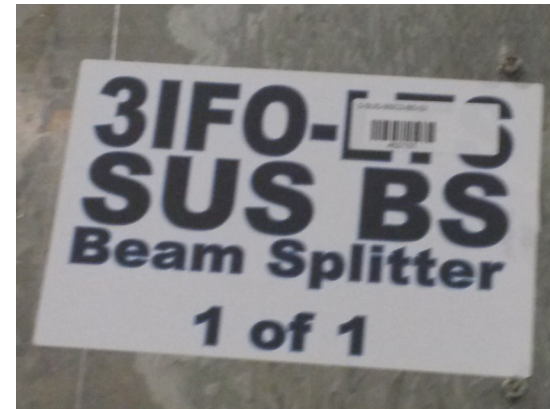
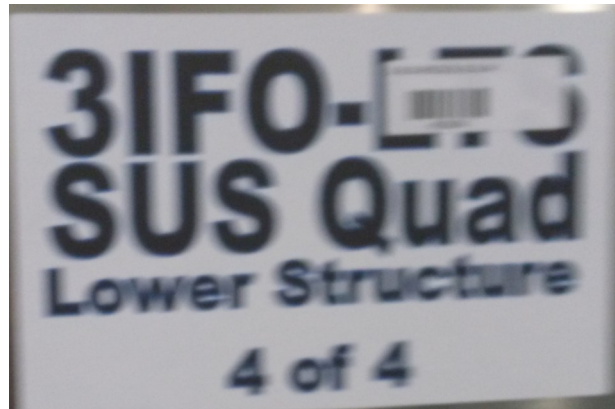
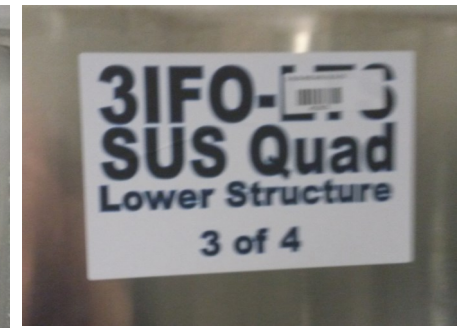
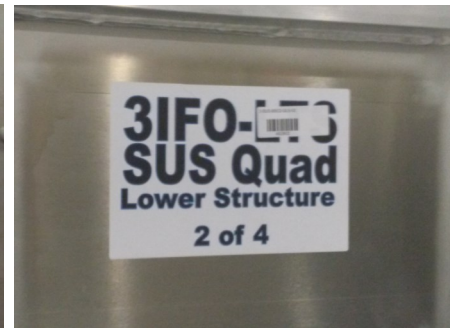
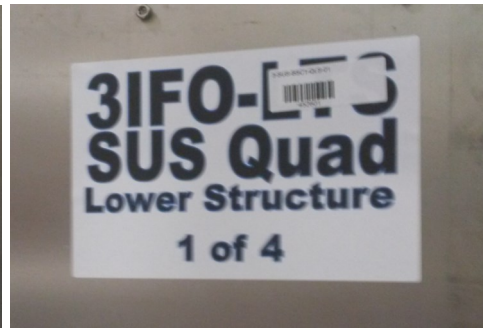
Jeffrey Bartlett
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3IFO SUS SUS Cross Check and Custody-19 March 2015



3IFO SUS Cross Check and Custody-26 March 2015

3IFO Q6
SUS
ITM QUAD
BIN 1

3-3US-Q6-ITM Quad Kit
3IFO-1
SUS Q6
ITM Quad Kit
Bin 2

3-3US-Emergency Quad Parts
3IFO-1
SUS
Emergency Quad Parts
Assy-D999911

3IFO Q7
SUS
ITM QUAD
BIN 1

3-3US-Q7-ITM Quad Kit
3IFO-1
SUS Q7
ITM Quad Kit
Bin 2

DOG CLAMPS
eventually for
3IFO OR SPARE
SEE Betsy
D1201154 AOS
D1001700 SLC
D120366 HAM
D070056 & BSC
D1001376

3IFO Q8
SUS
ETM QUAD
BIN 1

3-3US-Q8-ETM Quad Kit
3IFO-1
SUS Q8
ETM Quad Kit
Bin 2
D1400110-Q8

3IFO Q9
SUS
ETM QUAD
BIN 1

3-3US-Q9-ETM Quad Kit
3IFO-1
SUS Q9
ETM Quad Kit
Bin 2

3IFO BS
SUS
ASSY-D1400130
-3IFO
(BW)

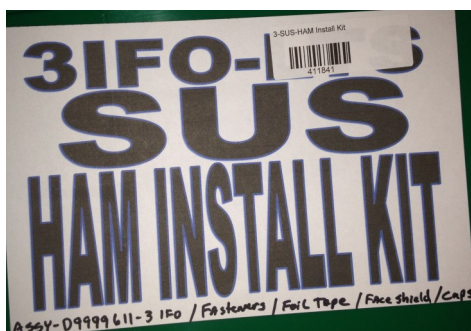
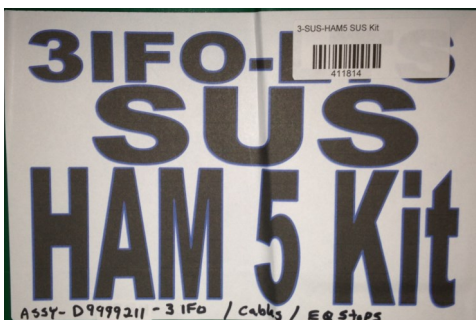
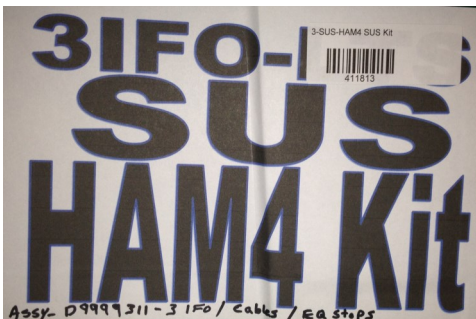
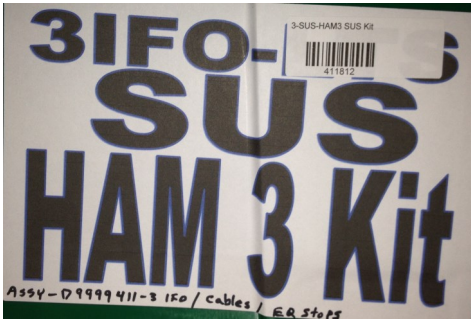
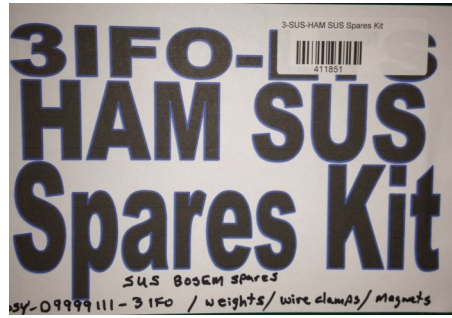
3IFO BSC
INSTALL
D140000 PECK
CABLE CLAMPS
78100 3/8-16x1.25"
& 3/8-16x1/2"
PECK Zip ties
N60 3/8 NUTS
12pt 3/8-16x1.5"

3-3US-B5 Install Kit
3IFO-1
SUS
BS INSTALL KIT

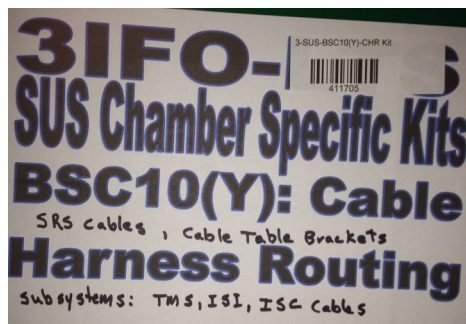
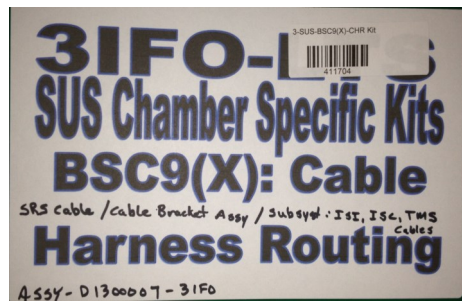
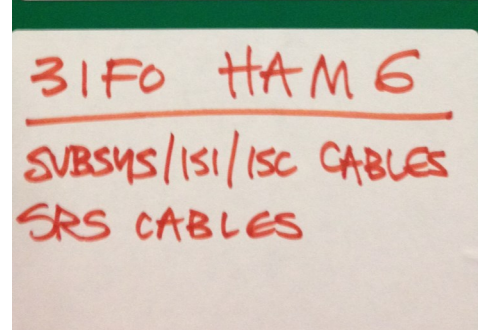
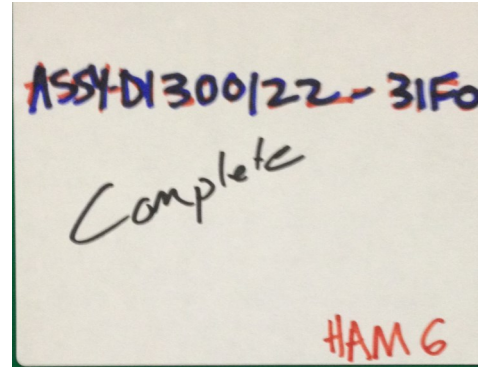
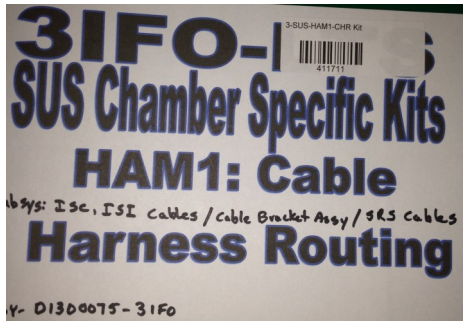
QUAD 3IFO
PUSHERS
TOOLING
D9999811
SUS (BW)

3IFO SUS
(2) QUAD
LSAT
PARTS
(BW)

3IFO SUS Bins Cross Check and Custody-26 March 2015



3IFO SUS Cable Bins Cross Check and Custody-26 March 2015



3IFO SUS Electronics Cross Check and Custody-27 March 2015

H2-SUS-C1



S1200870

H2-SUS-C2



S1200871

H2-SUS-C3



S1200872

H2-SUS-C4



S1200873

H2-SUS-C5



S1200874

H2-SUS-C6



S1200875

H2-SUS-C7



S1200876

H2-SUS-C8



S1200877

H2-SUS-X

2 additional binary chassis needed. Fil. Clara checking on this.



S1200921

H2-SUS-Y



S1200922