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# LASP:

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | | | | | |
| **SS#1** | | **SS#2** | | **SS#3** | | **SS#4** | | |
| **DSP** |  | |  | |  | |  | | |
| Serial Number | DSPA: SN01 | DSPB: SN03 | DSPA: SN08 | DSPB: SN09 | DSPA: SN05 | DSPB:SN11 | DSPA: SN12 | DSPB: SN13 | |
| Final Assembly | complete | complete | complete | complete | rework | complete | complete | complete | |
| Bench Testing | complete | complete | complete | complete | complete | complete | complete | complete | |
| Thermal Testing | complete | complete | complete | complete | complete | complete | complete | complete | |
| Delivery to UNH | complete | complete | 23 May 2012 | 23 May 2012 | 09 Oct 2012 | 04 Oct 2012 | 07 Feb 2013 | 07 Feb 2013 | |
|  |  |  |  |  |  |  |  |  | |
| **ADP Boom** |  | |  | |  | |  | | |
| Serial Number | SN01 | SN02 | SN03 | SN04 | SN05 | SN06 | SN07 | SN08 | |
| Final Assembly | complete | complete | complete | complete | complete | complete | complete | complete | |
| Engineering Test | complete | complete | complete | complete | complete | complete | complete | complete | |
| PER | 05 Apr 2011 | 05 Apr 2011 | 23 Sep 2011 | 23 Sep 2011 | 09 Nov 2011 | 09 Nov 2011 | 30 Nov 2011 | 30 Nov 2011 | |
| Vibration Test | complete | complete | complete | complete | complete | complete | complete | complete | |
| Thermal Deployment Testing | complete | complete | complete | complete | complete | complete | complete | complete | |
| Deployed Performance Testing | complete | complete | complete | complete | complete | complete | complete | complete | |
| PSR/EIDP (ATK) | 4/6/2012 | 4/6/2012 | complete | complete | complete | complete | complete | complete | |
| Shipment to LASP | 4/11/2012 | 4/11/2012 | 4/11/2012 | 4/11/2012 | 5/9/2012 | 5/9/2012 | 5/9/2012 | 5/9/2012 | |
| PSR | 23 May 2012 | 23 May 2012 | 10 Sep 2012 | 10 Sep 2012 | 18 Jan 2013 | 18 Jan 2013 | 19 Apr 2013 | 19 Apr 2013 | |
| Bake out and Certif | complete | complete | complete | complete | complete | complete | complete | complete | |
| Delivery to GSFC | 04 Jan 2013 | 04 Jan 2013 | 04 Jan 2013 | 04 Jan 2013 | 08 May 2013 | 08 May 2013 | 19 Jun 2013 | 19 Jun 2013 | |
|  |  |  |  |  |  |  |  |  | |
| **ADP RE** |  | |  | |  | |  |  | |
| Serial Number | SN03 | SN04 | SN05 | SN06 | SN01 | SN02 | SN07 | SN08 | |
| Final Assembly | complete | complete | complete | complete | complete | complete | complete | complete | |
| Initial Functional Test | complete | complete | complete | complete | complete | complete | complete[[1]](#footnote-1) | complete | |
| PER | 23 Jan 2012 | 23 Jan 2012 | 30 Apr 2012 | 30 Apr 2012 | 07 Sep 2012 | 07 Sep 2012 | 26 Oct 2012 | 26 Oct 2012 | |
| Vibration Test | complete | complete | complete | complete | complete | complete | complete | complete | |
| Thermal Vacuum Test | complete | complete | complete | complete | complete | complete | complete | complete | |
| Calibration with AEB | complete | complete | complete | complete | complete | complete | complete | complete | |
| PSR/EIDP | 23 May 2012 | 23 May 2012 | 10 Sep 2012 | 10 Sep 2012 | 18 Jan 2013 | 18 Jan 2013 | 19 Apr 2013 | 19 Apr 2013 | |
| Delivery to GSFC | 04 Jan 2013 | 04 Jan 2013 | 04 Jan 2013 | 04 Jan 2013 | 19 Jun 2013 | 19 Jun 2013 | 19 Jun 2013 | 19 Jun 2013 | |
|  |  |  |  |  |  |  |  |  | |
| **AEB** |  | |  | |  | |  |  | |
| Serial Number | SN01 | | SN02 | | SN05 | | SN04 | | SN03 (spare) |
| Receipt from UNH | complete | | complete | | complete | | complete | | complete |
| Final Mechanical Assembly | complete | | complete | | complete | | complete | | complete |
| PER | 31 Jan 2012 | | 30 Apr 2012 | | 24 May 2013 | | 14 Nov 2012 | | 07 Sep 2012 |
| Vibration Test | complete | | complete | | complete | | complete | | complete |
| Thermal Vacuum Test | complete | | complete | | complete | | complete | | complete |
| Calibration with RE | complete | | complete | | complete | | complete | | complete |
| Test Reports | in process | | complete | | In process | | complete | | complete |
| Delivery to UNH | complete | | complete | | complete | | complete | | 23 Oct 2012  09 Apr 2013  rework required, completed. Flight spare |
| **SDP Preamp / Cable Assemblies** |  | |  | |  | |  |  | |
| Serial Number | 1, 2, 3, 4 | 5, 6 | 7, 8 | 9/ 10 | 11, 12 | 13, 14 | 15, 16 | 17, 18 | |
| Cable received from UNH | complete | complete | complete | complete | complete | complete | complete | complete | |
| Cleaning and Bake Out | complete | complete | complete | complete | complete | complete | complete | complete | |
| Final Assembly | complete | complete | complete | complete | complete | complete | complete | complete | |
| Initial Functional Test | complete | complete | complete | complete | complete | complete | complete | complete | |
| EIDP | complete | complete | complete | complete | complete | complete | complete | complete | |
| Delivery to UNH | complete | complete | complete | complete | complete | 21 Sep 2012 | 21 Sep 2012 | 21 Sep 2012 | |
| **SDP Doors** |  | |  | |  | |  |  | |
| Serial Number | 1, 2, 3, 4 | 5, 6 | 7, 8 | 9, 10 | 11, 12 | 13, 14 | 15, 16 | 17, 18[[2]](#footnote-2) | |
| Assembly | complete | complete | complete | complete | complete | complete | complete | complete | |
| Initial Functional Test | complete | complete | complete | complete | complete | complete | complete | complete | |
| EIDP | complete | complete | complete | complete | complete | complete | complete | complete | |
| Delivery to UNH | complete | complete | complete | 23 May 2012 | 23 May 2012 | 23 May 2012 | 23 May 2012 | 21 Sep 2012 | |

# UCLA:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | | | | |
| **SS#1** | | **SS#2** | | **SS#3** | | **SS#4** | |
| **FM AFG/DFG Sensors** |  | |  | |  | |  |  |
| Serial Number | AFG: 05 | DFG: 04 | AFG: 06 | DFG: 08 | AFG: 09 | DFG: 07 | AFG: 11 | DFG: 10 |
| Final Assembly | complete | complete | complete | complete | complete | complete | complete | complete |
| Bench Testing | complete | complete | complete | complete | complete | complete | complete | complete |
| PER | 20 Oct 2010 | 20 Oct 2010 | 09 Sep 2011 | 09 Sep 2011 | 09 Jan 2012 | 09 Jan 2012 | 26 Jun 2012 | 26 Jun 2012 |
| Environmental Testing and bake-out | complete | complete | complete | complete | complete | complete | complete | complete |
| Delivery to tuning and calibration | complete | complete | complete | complete | complete | complete | complete | complete |
| **Spare AFG/DFG Sensors** | **Spare** | |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |
|  | AFG | DFG |  |  |  |  |  |  |
| Serial Number | N/A | DFG 13 |  |  |  |  |  |  |
| Final Assembly | N/A | complete |  |  |  |  |  |  |
| Bench Testing | N/A | complete |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **AFG Electronics** |  | |  | |  | |  |  |
| Serial Number | 01 | | 02 | | 03 | | 04 | |
| Final Assembly | complete | | complete | | complete | | complete | |
| Bench Test | complete | | complete | | complete | | complete | |
| Delivery to tuning/matching and calibration | complete | | complete | | complete | | complete | |
| **AFG Tuning and Calibration** |  | |  | |  | |  |  |
| Sensor/Electronics Tuning/Matching, Thermal Test | complete | | complete | | complete | | complete | |
| Calibration at TU-BS | complete | | complete | | NO CALIB | | NO CALIB | |
| Final Test and EIDP | complete | | complete | | complete | | complete | |
| Delivery to UNH | complete | | complete | | complete | | 12 Dec 2012 | |
| **AFG/DFG Harness** |  | |  | |  | |  |  |
| Serial Numbers | AFG Deck: 1  DFG Deck: 1 | Boom: 1, 2 | AFG Deck: 2  DFG Deck: 2 | Boom: 3, 4 | AFG Deck: 3  DFG Deck: 3 | Boom: 5, 6 | AFG Deck: 4  DFG Deck: 4 | Boom: 7, 8 |
| Final Assembly | complete | complete | complete | complete | complete | complete | complete | complete |
| Test | complete | complete | complete | complete | complete | complete | complete | complete |
| Bake Out | complete | complete | complete | complete | complete | complete | complete | complete |
| Shipment to UNH | complete | complete | complete | complete | complete | complete | complete | complete |

# IWF (DFG):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | |
| **SS#1** | **SS#2** | **SS#3** | **SS#4** | **Spare** |
| **DFG Sensor** |  |  |  |  |  |
| Serial Number | 04 | 08 | 07 | 10 | 13 |
| Received from UCLA | complete | complete | complete | complete | complete |
| **DFG Electronics** |  |  |  |  |  |
| Serial Number | DFG1 | DFG2 | DFG5 | DFG4 | DFG3 |
| Receipt from UNH | complete | complete | complete | complete | complete |
| Functional, Thermal and Tuning Test | complete | complete | complete | complete | complete |
| Ready for Sensor/Electronics Calibration | complete | complete | complete | complete | complete |
| **DFG Tuning and Calibration** |  |  |  |  |  |
| Calibration at TU-BS | complete | complete | complete | complete |  |
| Final Test, EIDP | complete | complete | complete | complete |  |
| Delivery to UNH | complete | complete | 24 Jul 2012 | 12 Dec 2012 |  |

# LPP:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | |
| **SS#1** | **SS#2** | **SS#3** | **SS#4** | **Spare** |
| **SCM Sensor** |  |  |  |  |  |
| Serial Number | FM1 | FM2 | FMS | FM3 | FM4 |
| Assembly | complete | complete | complete | complete | complete |
| Functional and Thermal Test | complete | complete | complete | complete | complete |
| PER | 20 May 2011 | 09 Jan 2012 | 09 Jan 2012 | 17 Sep 2012 | 04 Apr 2013 |
| Vibration and Post-Vibe Thermal Test | complete | complete | 01 Jun 2012 | complete | complete |
| TV Test | complete | complete | 11 Jun 2012 | complete | complete |
| Delivery to Tuning and Calibration | complete | complete | complete | complete | complete |
|  |  |  |  |  |  |
| **SCM Preamp** |  |  |  |  |  |
| Serial Number | FM1 | FM2 | FM4 | FMS | FM3 |
| Assembly | complete | complete | complete | complete | complete |
| Functional ant Thermal test | complete | complete | complete | complete | complete[[3]](#footnote-3) |
| PER | 08 Aug 2011 | 09 Jan 2012 | 09 Jan 2012 | 17 Sep 2012 | 23 Oct 2012 |
| Vibration Test | complete | complete | complete | 17 Jul 2012[[4]](#footnote-4) | complete |
| TV Test | complete | complete | complete | complete | complete |
| Delivery to Tuning and Calibration | complete | complete | complete | complete | complete |
| **SCM Harness** |  |  |  |  |  |
| Serial Number | 01 | 02 | 03 | 04 | S |
| Assembly and Test | complete | complete | complete | complete | complete |
| Bake Out & Certification | 22 May 2012[[5]](#footnote-5) | complete | complete (done at UNH) | Complete (cert. waived) |  |
| Delivery to UNH | complete | complete | complete | 27 Feb 2013 |  |
| **SCM Test and Calibration** |  |  |  |  |  |
| Sensor/Electronics Test | complete | complete | complete | complete | complete |
| Calibration | complete | complete | complete | complete | complete |
| Final Test and EIDP | complete | complete | complete | complete |  |
| Delivery to UNH | complete | 25 Jul 2012 | 25 Jul 2012 (Sensor and Preamp)  5 Nov 2912 (Harness) | 27 Feb 2013 |  |

# U of Iowa:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | | | | |
| **SS#1** | | **SS#2** | | **SS#3** | | **SS#4** | |
| **EDI Optics** |  | |  | |  | |  |  |
| Serial Number | 01 | 02 | 03 | 04 | 05 | 06 |  |  |
| Final Assembly | complete | complete | complete | complete | complete | complete |  |  |
| Testing | complete | complete | complete | complete | complete | complete |  |  |
| Delivery to UNH | complete | complete | complete | complete | complete | complete |  |  |
|  |  |  |  |  |  |  |  |  |
| Serial Number | 09 |  |  |  |  |  |  |  |
| Final Assembly |  |  |  |  |  |  |  |  |
| Testing |  |  |  |  |  |  |  |  |
| Delivery to UNH |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

# IWF (EDI):

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | | | | | |
| **SS#1** | | **SS#2** | | **SS#3** | | | **SS#4** | |
| **Gun** |  | |  | |  | | |  |  |
| Serial Number | 01 | 02 | 03 | 04 | 05 | | 06 | 07 | 08 |
| Final Assembly | complete | complete | complete | complete | complete | | complete | In process |  |
| Bench Testing | complete | complete | complete | complete | complete | | complete |  |  |
| Thermal Testing | complete | complete | complete | complete | complete | | complete |  |  |
| Deliver to Gun/GDE Test and Calibration | complete | complete | complete | complete | complete | | Problem |  |  |
|  |  |  |  |  |  | |  |  |  |
| **GDE** |  | |  | |  | | |  |  |
| Serial Number | 01 | 02 | 03 | 04 | 05 | | 06 | 07 | 08 |
| Final Assembly | complete | complete | complete | complete | complete | | complete | complete | complete |
| Environmental Tests | complete | complete | complete | complete | complete | | complete | complete | complete |
| Delivery to IWF | complete | complete | complete | complete | complete | | complete | complete | complete |
| IWF Acceptance Test | complete | complete | complete | complete | complete | | complete | complete | complete |
| Deliver to Gun/GDE Test and Calibration | complete | complete | complete | complete | complete | |  |  |  |
| **GDE** |  | |  | |  | | |  |  |
| Serial Number | 09 |  |  |  |  | |  |  |  |
| Final Assembly | complete |  |  |  |  | |  |  |  |
| Environmental Tests | complete |  |  |  |  | |  |  |  |
| Delivery to IWF | complete |  |  |  |  | |  |  |  |
| IWF Acceptance Test | complete |  |  |  |  | |  |  |  |
| Deliver to Gun/GDE Test and Calibration |  |  |  |  |  | |  |  |  |
|  |  |  |  |  |  | |  |  |  |
| **Gun/GDE Test and Calibration** |  | |  | |  | | |  |  |
| Initial Functional Test | complete | complete | complete | complete | complete |  | |  |  |
| Calibration | complete | complete | complete | In process | complete |  | |  |  |
| Final Test and EIDP | complete | complete | complete |  | complete |  | |  |  |
| Deliver to UNH | complete | complete | 01 Nov 2012 |  | 12 Mar 2013 |  | |  |  |

# KTH/IRFU/Oulu:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | | | | | |
| **SS#1** | | **SS#2** | | **SS#3** | | | **SS#4** | |
| **LVPS** |  | |  | |  | | |  |  |
| Serial Number | PS1 | | PS2 | | PS3 | | | PS4 (& PS5-spare) | |
| Receipt from UNH | complete | | complete | | complete | | | complete | |
| Bench Test (KTH) | complete | | complete | | complete | | | complete | |
| Acceptance Test (IRFU) | complete | | complete | | complete | | | complete | |
| Parylene Coating | complete | | complete | | complete | | | complete | |
| Final Test and EIDP | complete | | complete | | complete | | | complete | |
| Deliver to UNH | complete | | complete | | complete | | | complete | |
|  |  | |  | |  | | |  | |
| **AEB** |  | |  | |  | | |  |  |
| Serial Number | 001 | | 002 | | 003 | | | 004, 005 | |
| Receipt from UNH | complete | | complete | | complete | | | complete | |
| Bench Test (KTH) | complete | | complete | | complete | | | complete | |
| Acceptance Test (IRFU) | complete | | complete | | complete | | | complete | |
| Parylene Coating | complete | | complete | | complete | | | complete | |
| Final Test and EIDP | complete | | complete | | complete | | | complete | |
| Deliver to UNH | complete | | complete | | complete | | | 18 Oct 2012 | |
|  |  | |  | |  | | |  | |
| **S-BEBs** |  | |  | |  | | |  |  |
| Serial Numbers | 3, 4 | 5, 6 | 7, 8 | 9, 10 | 11, 12 | | 13, 14 | 15, 16 | 17, 18 |
| Receipt from UNH | complete | complete | complete | complete | complete | | complete | complete | complete |
| Bench Test (KTH) | complete | complete | complete | complete | complete | | complete | complete | complete |
| Acceptance Test (IRFU) | complete | complete | complete | complete | complete | | complete | complete | complete |
| Ready for Probe-to-BEB) Test and Calibration | complete | complete | complete | complete | complete | | complete | complete | complete |
| Parylene Coating | complete | complete | complete | complete | complete | | complete | complete | complete |
| Final Test and EIDP | complete | complete | complete | complete | complete | | complete | complete | complete |
|  |  |  |  |  |  | |  |  |  |
| **Probe/Yo-Yo** |  | |  | |  | | |  |  |
| Serial Numbers | A1, A2  To be replaced with B1, B2 | B3, B4 | D1, D2 | D3, D4 | C1, C2 | A3, A4 | | E2, E3 |  |
| Assembly | complete | complete | complete | complete | complete | complete | | complete | complete |
| Functional Test (Oulu) | complete | complete | complete | complete | complete | complete | | complete | complete |
| Delivery to KTH | complete | complete | complete | complete | complete | complete | | complete | complete |
| Ready for Probe-to-BEB) Test and Calibration | complete | complete | complete | complete | complete | complete | | complete | complete |
| Thermal Vacuum Test | complete | complete | complete | complete | complete | complete | | complete | complete |
| Final Test and EIDP | complete | complete | complete | complete | complete | complete | | complete | complete |
| Return to UNH (reworked probes) |  |  |  |  |  |  | |  |  |
| **Preamp/Cable** |  | |  | |  | | |  |  |
| Serial Numbers | 3, 4 | 5, 6 | 7, 8 | 9, 10 | 11, 12 | 13, 14 | | 15, 16 | 17, 18 |
| Receipt from UNH | complete | complete | complete | complete | complete | complete | | complete | complete |
| Ready for Probe-to-BEB) Test and Calibration | complete | complete | complete | complete | complete | complete | | complete | complete |
|  |  |  |  |  |  |  | |  |  |
| **Probe-to-BEB Test and Calibration** |  | |  | |  | | |  |  |
| Probe-to-BEB Test and Calibration | complete | complete | complete | complete | complete | complete | | complete | complete |
| EIDP | complete | complete | complete | complete | complete | complete | | complete | complete |
| Deliver to UNH | complete | complete | complete | complete | complete | complete | | complete | complete |
|  |  |  |  |  |  |  | |  |  |

# UNH:

## UNH Subassemblies Delivered to Partners:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | | | | | | | |
| **SS#1** | | **SS#2** | | | **SS#3** | | | **SS#4** | | |
| **A-BEBs** |  | |  | | |  | | |  | | |
| Housing Serial Number | 001 | | 002 | | | 003 (spare) | | | 004 | | 005 (flight) |
| Board Serial Numbers | ADP5: ACP1, AAM1  ADP6: ACP2, AAM2 | | ADP5: ACP3, AAM3  ADP6: ACP4, AAM4 | | | ADP5: ACP5, AAM5  ADP6: ACP6, AAM6 | | | ADP5: ACP7, AAM7  ADP6: ACP8, AAM8 | | ADP5: ACP9, AAM9  ADP6: ACP10, AAM10 |
| Board Assembly | complete | | complete | | | complete | | | complete | | complete |
| AEB Assembly | complete | | complete | | | 18 May 2012 | | | 26 Jul 2012 | | 26 Jul 2012 |
| Delivery to KTH | complete | | complete | | | 12 Jun 2012 | | | 13 Aug 2012 | | 13 Aug 2012 |
| Received from KTH | complete | | complete | | | 20 Aug 2012 | | | 18 Oct 2012 | | 18 Oct 2012 |
| Delivery to LASP | complete | | complete | | | 22 Aug 2012 | | | 23 Oct 2012 | | May 2013 |
| Received from LASP | complete | | 20 Jun 2012 | | | 23 Oct 2012 | | | 8 Mar 2013 | | 21 Jun 2013 |
| **S-BEBs** |  | |  | | |  | | |  | | |
| Housing Serial Number | 3, 4 | 5, 6 | 7, 8 | | 9, 10 | 11, 12 | | 13, 14 | 15, 16 | 17, 18 | |
| Board Serial Numbers | SCP3, SCP4  SAM3, SAM4  GT3, GT4 | SCP5, SCP6  SAM5, SAM6  GT5, GT6 | SCP7, SCP8  SAM7, SAM8  GT7, GT8 | | SCP9, SCP10  SAM9, SAM10  GT9, GT10 | SCP11, SCP12  SAM11, SAM12  GT11, GT12 | | SCP13, SCP14  SAM13, SAM14  GT13, GT14 | SCP15, SCP16  SAM15, SAM16  GT15, GT16 | SCP17, SCP18  SAM17, SAM18  GT17, GT18 | |
| Board Kitting, Parts Forming and Tinning | complete | complete | complete | | complete | complete | | complete | complete | complete | |
| Board Assembly (Syntech) | complete | complete | complete | | 31 May 2012 | 31 May 2012 | | complete | complete | complete | |
| S-BEB Assembly (UNH) | complete | complete | complete | | complete | complete | | complete | complete | complete | |
| Delivery to KTH | complete | complete | complete | | complete | complete | | complete | complete | complete | |
| Received from KTH | complete | complete | complete | | complete | complete | | complete | complete |  | |
| **SDP Peamp/Cable** |  | |  | | |  | | |  | | |
| Serial Numbers | 3, 4 | 5, 6 | 7, 8 | 9, 10 | | 11, 12 | 13, 14 | | 15, 16 | 17, 18 | |
| Received from LASP | complete | complete | complete | complete | | complete | complete | | complete | complete | |
| Survival TV Test | complete | complete | complete | 05 Jun 2012 | | 05 Jun 2012 | complete | | complete | complete | |
| Delivery to KTH | complete | complete | complete | complete | | complete | complete | | complete | complete | |
| Received from KTH | complete | complete | complete | complete | | complete | complete | | complete |  | |
| Ready for SDP I&T | complete | complete | complete | complete | | complete | complete | | complete |  | |
| **EDI BGS** |  | |  | | |  | | |  | | |
| Serial Number | 1 | 2 | 3 | 4 | | 5 | 6 | | 7 | 8 (9, 10 spares) | |
| Assembly | complete | complete | complete | complete | | complete | complete | | complete | complete | |
| Testing | complete | complete | complete | complete | | complete | complete | | complete | complete | |
| Delivery to IWF (Gun) | complete | complete | complete | complete | | complete | complete | | complete |  | |
|  |  |  |  |  | |  |  | |  |  | |
| **EDI HV & Fil. Board** |  | |  | | |  | | |  |  | |
| Serial Number | FIL1 | FIL2 | FIL3 | FIL4 | | FIL5 | FIL6 | |  |  | |
| Assembly | complete | complete | complete | complete | | complete | complete | |  |  | |
| Testing | complete | complete | complete | complete | | complete | complete | |  |  | |
| Delivery to IWF (Gun) | complete | complete | complete | complete | | complete | complete | |  |  | |
|  |  |  |  |  | |  |  | |  |  | |
| **LVPS** |  | |  | | |  | | |  |  | |
| Serial Number | PS1 | | PS2 | | | PS3 | | | PS4 | | PS5 (spare) |
| Assembly | complete | | complete | | | complete | | | complete | | complete |
| Deliver to KTH | complete | | complete | | | complete | | | complete | | complete |
| Received from KTH | complete | | complete | | | complete | | | complete | | complete |
| Receiving test | complete | | complete | | | complete | | | complete | |  |
| Ready for CEB | complete | | complete | | | complete | | | complete | |  |
|  |  | |  | | |  | | |  | | |
| **DFG Board** |  | |  | | |  | | |  |  | |
| Serial Number | DFG1 | | DFG2 | | | DFG5 | | | DFG4 | | DFG3 (spare) |
| Assembly | complete | | complete | | | complete | | | complete | | complete |
| Deliver to IWF | complete | | complete | | | complete | | | complete | | complete |
| Received from IWF | complete | | complete | | | complete | | | complete | |  |
| Receiving test | complete | | complete | | | complete | | | complete | |  |
| Ready for CEB | complete | | complete | | | complete | | | complete | |  |

## UNH CEB:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | | | | |
| **SS#1** | | **SS#2** | | **SS#3** | | **SS#4** | |
| **BPM** |  | |  | |  | |  |  |
| Serial Number | BP1 | | BP2 | | BP3 | | BP4 | |
| Final Assembly | complete | | complete | | complete | | complete | |
| Bench Testing | complete | | complete | | complete | | complete | |
| Coating | complete | | complete | | complete | | complete | |
| Ready for CEB | complete | | complete | | complete | | complete | |
| **CDPU** |  | |  | |  | |  | |
| Serial Number | A: CPUA2 | B: CPUB2 | A: CPUA1 | B: CPUB1 | A: CDPUA3 | B: CDPUB3 | A: CDPUA4 | B: CDPUB4 |
| Final Assembly | complete | complete | complete | complete | complete | complete | complete | complete |
| Bench Testing | complete | complete | complete | complete | complete | complete | complete | complete |
| Thermal Testing | complete | complete | complete | complete | complete | complete | complete | complete |
| Coating and SE’s Test | complete | complete | complete | complete | complete | complete | complete | complete |
| Ready for CEB | complete | complete | 26 Apr 2012 | 26 Apr 2012 | complete | complete | complete | complete |
| **EDI Controller** |  | |  | |  | |  |  |
| Serial Number | CNTL1 | | CNTL2 | | CNTL3 | | CNTL4 | |
| Final Assembly | complete | | complete | | complete | | complete | |
| Bench Testing | complete | | complete | | complete | | complete | |
| Thermal Testing | complete | | complete | | complete | | complete | |
| Coating and SE’s Acceptance Test | complete | | complete | | complete | | complete | |
| Ready for CEB | complete | | 03 May 2012 | | complete | | 06 Mar 2013 | |
|  |  | |  | |  | |  | |
| **CEB** |  | |  | |  | |  | |
| Housing Serial Number | FM1 | | FM2 | | FM3 | | FM4 | |
| Board Serial Numbers as Integrated | BPM: BP1  LVPS: PS1  CDPU-A: CPUA2  CDPU-B: CPUB2  EDI Controller: CNTL1  AFG: 01  DFG: DFG1  DSP-A: SN01  DSP-B: SN03 | | BPM: BP2  LVPS: PS2  CDPU-A: CPUA1  CDPU-B: CPUB1  EDI Controller: CNTL2  AFG: 02  DFG: DFG2  DSP-A: SN08  DSP-B: SN09 | | BPM: BP3  LVPS:PS3  CDPU-A: CDPUA3  CDPU-B: CDPUB3  EDI Controller: CNTL3  AFG: 03  DFG: DFG5  DSP-A: 11  DSP-B: 05 | | BPM: BP4  LVPS: PS4  CDPU-A:  CDPU-B:  EDI Controller:  AFG: 04  DFG: DFG4  DSP-A: 12  DSP-B: 13 | |
| Housing Assembly | complete | | complete | | complete | | complete | |
| Final Assembly | complete | | complete | | complete | | complete | |
| FFT | complete | | 26 Jun 2012 | | 25 Oct 2012 | | 18 Mar 2013 | |
| PER | 18 Jan 2012 | | 11 Jul 2012 | | 29 Oct 2012 | | 20 Mar 2013 | |
| EMI/EMC Test | complete | | complete | | complete | | complete | |
| Vibration Test | complete | | 18 Jul 2012 | | 02 Nov 2012 | | complete | |
| TV Test | complete | | complete | | complete | | complete | |
| Ready for FIELDS I&T | complete | | complete | | complete | | complete | |

## UNH SDP:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | | | | |
| **SS#1** | | **SS#2** | | **SS#3** | | **SS#4** | |
| **S-BEBs** |  | |  | |  | |  | |
| Serial Number | 3, 4 | 5, 6 | 7, 8 | 9, 10 | 11, 12 | 13, 14 | 15, 16 |  |
| Received from KTH | complete | complete | complete | complete | complete | complete | complete |  |
| Final Assembly and Torque Monitor Calib. | complete | complete | complete | complete | complete | complete | complete |  |
| Ready for SDP I&T | complete | complete | complete | complete | complete | complete | complete |  |
| **Preamp/Cable** |  | |  | |  | |  | |
| Serial Numbers | 03, 04 | 05, 06 | 07, 08 | 09, 10 | 11, 12 | 13, 14 | 15. 16 |  |
| Received from KTH | complete | complete | complete | complete | complete | complete | complete |  |
| Ready for SDP I&T | complete | complete | complete | complete | complete | complete | complete |  |
| **Door Assembly** |  | |  | |  | |  | |
| Serial Numbers | 3, 4 | 5, 6 | 7, 8 | 9, 10 | 11, 12 | 13, 14 | 15, 16 | 17, 18 |
| Received from LASP incl. fit check | complete | complete | complete | 23 May 2012 | 23 May 2012 | 23 May 2012 | 23 May 2012 | 19 Sep 2012 |
| Ready for SDP I&T | complete | complete | complete | complete | complete | complete | complete | complete |
| **Sphere/Yo-Yo** |  | |  | |  | |  | |
| Serial Numbers | A1, A2  To be replaced | B3, B4 | D1, D2 | D3, D4 | C1, C2 | A3, A4 | E1, E2 |  |
| Received from KTH | complete | complete | complete | complete | complete | complete | complete |  |
| Ready for SDP I&T | complete | complete | complete | complete | complete | complete | complete |  |
| **S/C Bracket** |  | |  | |  | |  | |
| Thermal Hardware | 3, 4 | 5. 6 | 7, 8 | 9, 10 | 11, 12 | 13, 14 | 15, 16 |  |
| Motor Harness | complete | complete | complete | complete | complete | complete | complete |  |
| Ready for SDP I&T | complete | complete | complete | complete | complete | complete | complete |  |
| **Sphere/Yo-Yo to Preamp Integration** |  | |  | |  | | complete | |
| Serial Numbers | Sphere: A1, A2  To be replaced  Preamp: 03, 04 | Sphere: B3, B4  Preamp: 05, 06 | Sphere: D1, D2  Preamp: 07, 08 | Sphere: D3, D4  Preamp: 09, 10 | Sphere: C1, C2  Preamp: 11, 12 | Sphere: A3, A4  Preamp: 13, 14 | Sphere: E1, E2  Preamp: 15, 16 |  |
| Assembly complete | complete | complete | complete | complete | complete | complete | complete |  |
| Ready for SDP I&T | complete | complete | complete | complete | complete | complete | complete |  |
| **SDP** |  | |  | |  | |  | |
| Serial Numbers | FM3, FM4 | FM5, FM6 | FM7, FM8 | FM9, FM10 | FM11, FM12 | FM13, FM14 | FM15, FM16 | (Spare: FM2) |
| Final Assembly | complete | complete | complete | complete | complete | complete | complete |  |
| FFT | complete | complete | complete | complete | complete | complete |  |  |
| PER | 11 Jun 2012 | 7 Aug 2012 | 16 Oct 2012 | 11 Jan 2013 | 03 Apr 2013 |  |  |  |
| EMI/EMC Test | complete | complete | complete | complete | complete | complete |  |  |
| Vibration Test | complete | complete | complete | complete | complete |  |  |  |
| TV Test | complete | complete | complete | complete | complete |  |  |  |
| Ready for FIELDS I&T | complete | complete | complete | complete | complete |  |  |  |
| PSR | 04 Oct 2012 | 04 Oct 2012 | 12 Feb 2013 | 12 Feb 2013 |  |  |  |  |
| Delivery to IS | 12 Aug 2012[[6]](#footnote-6) | 27 Oct 2012 | 17 Dec 2012 | 22 Apr 2013 | 13 May 2013 |  |  |  |
| Fine wire crimp rework |  | complete | N/A | N/A |  |  |  |  |
| Return to GSFC |  | 13 May 2013 | N/A | N/A |  |  |  |  |

## UNH EDI GDU:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | | | | | |
| **SS#1** | | **SS#2** | | **SS#3** | | **SS#4** | |
| **Sensor** |  | |  | |  | |  | |
| Serial Number | 1 | 3 | 4 | 5 | 6 |  |  |  |
| Preamp Trimming | complete | complete | complete | complete | complete |  |  |  |
| Preamp Delay Test | complete | complete | complete | complete | complete |  |  |  |
| Thermal Test (w/o MCP) | complete | complete | complete | complete | complete |  |  |  |
| Parylene | complete | complete | complete | complete | complete |  |  |  |
| Final Assembly | complete | complete | complete | complete | complete |  |  |  |
| Electrical Test | complete | complete | complete | complete | complete |  |  |  |
| Vacuum Test (Characterization) | complete | complete | complete | complete | complete |  |  |  |
| Ready for GDU I&T | complete | complete | complete | complete | complete |  |  |  |
| **Optics** |  | |  | |  | |  | |
| Serial Number | 1 | 3 | 4 | 5 | 6 |  |  |  |
| Received from U. Iowa | complete | complete | complete | complete | complete |  |  |  |
| Ready for GDU I&T | complete | complete | complete | complete | complete |  |  |  |
| **Gun** |  | |  | |  | |  | |
| Serial Number | 1 | 3 | 4 | 5 |  |  |  |  |
| Received from IWF | 11 Sep 2012 | 31 Oct 2012 |  | 12 Mar 2013 |  |  |  |  |
| Ready for GDU I&T | complete | complete |  | complete |  |  |  |  |
| **GDE** |  | |  | |  | |  | |
| Serial Number | 1 | 3 | 4 | 5 |  |  |  |  |
| Received from IWF | 11 Sep 2012 | 01 Nov 2012 |  | 12 Mar 2013 |  |  |  |  |
| Ready for GDU I&T | complete | complete |  | complete |  |  |  |  |
| **GDU** |  | |  | |  | |  | |
| Serial Number | FM1 | FM3 |  | FM5 |  |  |  |  |
| Final Assembly | complete | complete |  | complete |  |  |  |  |
| Bench Test | complete | complete |  | complete |  |  |  |  |
| FFT and Characterization in Vacuum | complete | complete |  | Complete  Converter shut down |  |  |  |  |
| PER | 28 Sep 2012 | 20 Nov 2012 |  | 26 Mar 2013 |  |  |  |  |
| EMI Test | 03 Oct 2012 | complete |  | complete |  |  |  |  |
| Vibration Test | complete | 28 Nov 2012 |  | 28 Mar 2013 |  |  |  |  |
| TV Test | complete | Complete  problems |  | complete |  |  |  |  |
| Ready for FIELDS | complete |  |  | complete |  |  |  |  |
| FIELDS level testing | complete |  |  | complete |  |  |  |  |
| PSR | 17 Jan 2013 |  |  |  |  |  |  |  |
| Delivery to IS | 14 Nov 2012 |  |  |  |  |  |  |  |

## UNH FIELDS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Subsystem & Status** | **Ship Set** | | | |
| **SS#1** | **SS#2** | **SS#3** | **SS#4** |
| **FIELDS** |  |  |  |  |
| Component Serial Numbers | CEB: FM1  AEB: 001  SCM Sensor: FM1  SCM Preamp: FM1  SCM Harness: 01  AFG Sensor: 05  Boom Harnesses: 1, 2  Deck Harnesses: 1, 1  DFG Sensor: 04  EDI Pair: 1, 3  SDP Pair-1: 3, 4  SDP Pair-2: 5, 6  ADP Booms: 01, 02  ADP REs: 03, 04 | CEB: FM2  AEB: 002  SCM Sensor: FM2  SCM Preamp: FM2  SCM Harness: 02  AFG Sensor: 06  Boom Harnesses: 3, 4  Deck Harnesses: 2, 2  DFG Sensor: 08  EDI Pair:  SDP Pair-1: 7. 8  SDP Pair-2: 9, 10  ADP Booms: 03, 04  ADP REs: 05, 06 | CEB: FM3  AEB: 003  SCM Sensor: FMS  SCM Preamp: FM4  SCM Harness: 03  AFG Sensor: 09  Boom Harnesses: 5, 6  Deck Harnesses: 3, 3  DFG Sensor: 07  EDI Pair:  SDP Pair-1: 11, 12  SDP Pair-2:  ADP Booms: 05, 06  ADP REs: 01, 02 | CEB: FM4  AEB: 004  SCM Sensor: FM3  SCM Preamp: FM5  SCM Harness: 04  AFG Sensor: 11  Boom Harnesses: 7, 8  Deck Harnesses: 4, 4  DFG Sensor: 10  EDI Pair:  SDP Pair-1:  SDP Pair-2:  ADP Booms: 07, 08  ADP REs: 07, 08 |
| FIELDS CPT | complete | complete | complete | complete |
| FIT Test | complete | complete | complete | complete |
| EIDP | complete | complete | complete |  |
| PSR | 23 May 2012[[7]](#footnote-7) | 10 Sep 2012 | 18 Jan 2013 | 19 Apr 2013 |
| UNH Delivery to IS | 30 May 2012 | 17 Sep 2012 | 22 Jan 2013 | 22 Apr 2013 |
| LASP ADP Boom and RE Delivery to S/C | 04 Jan 2013 | 04 Jan 2013 | 08 May 2013 | 19 Jun 2013 |

## FIELDS Components on MMS Observatories

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Obs / Component**  (SN) | **CEB** | **AEB** | **AFG** | **DFG** | **SCM** | **SCM**  **PA** | **SDP1** | **SDP2** | **SDP3** | **SDP4** | **ADP +Z** | **RE +Z** | **ADP -Z** | **RE-Z** | **EDI GDU1** | **EDI GDU2** |
| **Obs-1** | FM1 | 001 | 05 | 04 | FM1 | FM1 | FM3 | FM4 | FM5 | FM6 | 1 | 03 | 2 | 04 | 3 | 2 |
| **Obs-2** | FM2 | 002 | 06 | 08 | FM2 | FM2 | FM9 | FM10 | FM7 | FM8 | 3 | 05 | 4 | 06 | 1 | 5 |
| **Obs-3** | FM4 | 004 | 11 | 10 | FM3 | FM5 |  |  |  |  | 7 | 07 | 8 | 08 |  |  |
| **Obs-4** | FM3 |  | 09 | 07 | FMS | FM4 | FM11 | FM12 |  |  | 5 | 01 | 6 | 02 |  |  |

|  |  |
| --- | --- |
|  | Installed |
|  | Delivered, not yet installed |
|  | Installed, rework planned |

1. Anomaly. NCR in process. [↑](#footnote-ref-1)
2. Spare doors. At least one will be needed given that SDP S/N FM1 is no longer a flight unit. [↑](#footnote-ref-2)
3. Preamp compliant with the sensitivity requirements, except at 10 Hz where the noise is slightly above the requirement. NCR, waiver requested. [↑](#footnote-ref-3)
4. Vibration test was performed before the PER. [↑](#footnote-ref-4)
5. Rework with new over-shield, bake-out and certification done at UNH [↑](#footnote-ref-5)
6. Delivered prior to PSR. 04 Oct 2012 PSR covered four units: SNs 3, 4, 5, 6. [↑](#footnote-ref-6)
7. All except EDI GDU and SDP [↑](#footnote-ref-7)