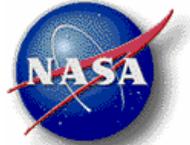




Alpha Magnetic Spectrometer
NASA / DOE

Alpha Magnetic Spectrometer Configuration Control Board (CCB) Minutes



National Aeronautics and
Space Administration

February 23, 2005
Building 1, Room 920L
2:00 – 4:00 pm

Attendees

CCB members and other attendees are listed in Attachment 1.

Agenda Item 1: Change Requests

- Change Request AMS-02/P-009: Build Additional USS and Support Equipment
 - This change request was not ready for approval
 - Preliminary cut has been completed.

- Change Request AMS-02/D-010: Baseline AMS-02 Structural Verification Plan for the Space Transportation System and the ISS
 - Waiting to hear back from Michael Grygier/ES2 and Michael Trznadel/ESCG.
 - Win Reid/OZ has no issues. Vic Sanders/Boeing still looking at SVP.
 - All comments need to be submitted prior to the CCB on March 2, 2005 in order for the CR to be approved and signed off.
 - New Action (05-005) – Chris Tutt/ESCG: Send all of the legacy documents (revisions A-C) to Trent Martin/EA2.

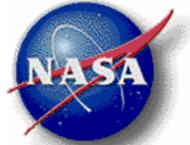
Agenda Item 2: Action Items

- Open Item 04-055: Review the composite panel strength testing results and requirements from the Structures Working Group with variability of data and relative paucity of data. Task assigned to Chris Tutt/ESCG.
 - Information was submitted to Deneen Taylor/ES2. Deneen Taylor/ES2 had questions. Chris Tutt/ESCG meeting with her after the CCB.



Alpha Magnetic Spectrometer
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Alpha Magnetic Spectrometer Configuration Control Board (CCB) Minutes



National Aeronautics and
Space Administration

February 23, 2005

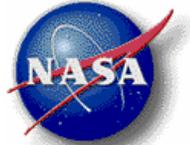
Agenda Item 3: Open Paper Management Tool – Open Items Report

- ❑ OPMT attached as Attachment 2 is the updated version reflecting all updates and statuses provided at CCB.
- ❑ One new action was assigned and modifications were made to existing actions.
 - Open Item 04-051: Finalize SSRMS requirements around the AMS-02. Task assigned to OZ and Bob Miley.
 - Win Reid/OZ rolling it into ICD. Exception to be in the ICD.
 - Win Reid/OZ stated that the ICD book manager restrained within the return to flight effort.
 - Need something in writing that SSRMS will not get within the 10 gauss limit.
 - Baselined PIA due mid April.
 - Baselined ICD due mid June.
 - Open Item 04-055: Review the composite panel strength testing results and requirements from the Structures Working Group with variability of data and relative paucity of data. Task assigned to Chris Tutt/ESCG.
 - Information was submitted to Deneen Taylor/ES2. Deneen Taylor/ES2 had questions. Chris Tutt/ESCG meeting with her after the CCB.
 - Open Item 05-001: Get together and discuss the pros/cons of CR and impact to the schedule. Steve Porter doesn't want this to impact the critical path. If it is in the critical path, it will not be considered. Task assigned to Ross Harold/ESCG and Bill Hungerford/AMS.
 - Action item status to be provided at the next CCB on March 2, 2005.
 - Plan being put together. It does not seem to impact the critical path, but there is a cost issue.
 - Paul Nemeth/ESCG to set-up meeting to brief Steve Porter/EA on Monday, February 28.



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Alpha Magnetic Spectrometer Configuration Control Board (CCB) Minutes



National Aeronautics and
Space Administration

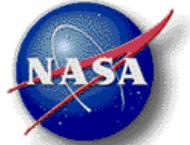
February 23, 2005

- Open Item 05-002: Brief Steve Porter/EA on the pros/cons and impact to schedule, concept, and costs before the next CCB so that the CR with modifications can be approved. Task assigned to Paul Nemeth/ESCG.
 - Action item status to be provided at the next CCB on March 2, 2005.
 - Paul Nemeth/ESCG to set-up meeting to brief Steve Porter/EA on Monday, February 28.
- Open Item 05-003: Steve Porter/EA requested a write up about any open action items regarding SSP57003. Task assigned to Chris Tutt/ESCG.
 - Have an agreement about how to handle issue. New model to be submitted to Boeing for new DAC cycle. Loads from this will be final. In the mean time, DAC-8 loads will be used with an uncertainty factor.
 - Waiting for concurrence from Michael Grygier/ES2.
 - Trent Martin/EA2 stated it needs to be put into a waiver in the ICD. An email will be justification for waiver.
- Open Item 05-004: Work on closure plans for all open Boeing PEI issues. Should also include Kornel Nagy or Hung Nguyen with structures. Steve Porter/EA wants to know who the ultimate arbitrator for structures. Task assigned to Chris Tutt/ESCG and Vic Sanders/ESCG.
 - As soon as a response is received from Boeing PEI on the Structural Verification Plan (SVP) will close this action.
- Open Item AMS_02-CDR-15: Implement recommendations. Task assigned to Paul Nemeth/ESCG and Tim Urban/ESCG.
 - Redlines submitted have been incorporated.
 - Meeting Friday, February 25. Drawings should be ready for review on Friday.
- Open Item AMS_02-CDR-16: Implement recommendations. Task assigned to Paul Nemeth/ESCG and Tim Urban/ESCG.
 - Redlines submitted have been incorporated.



Alpha Magnetic Spectrometer
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National Aeronautics and
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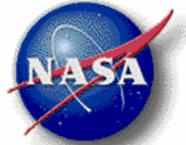
February 23, 2005

- Meeting Friday, February 25. Drawings should be ready for review on Friday.
- Open Item AMS_02-CDR-17 - Action 1: Implement recommendations. Task assigned to Paul Nemeth/ESCG and Tim Urban/ESCG.
 - Redlines submitted have been incorporated.
 - Meeting Friday, February 25. Drawings should be ready for review on Friday.
- Open Item AMS_02-CDR-21: Implement recommendation. Task assigned to Paul Nemeth/ESCG and Tim Urban/ESCG.
 - Based upon the ROEU re-design for EVA folding capability, the missing drawings are still in work. They will be provided at a later date.
- Open Item AMS_02-CDR-22: Supply EME control plan. Task assigned to Paul Nemeth/ESCG.
 - Redlines submitted have been incorporated.
 - Meeting Friday, February 25.
- Open Item AMS_02-CDR-23: Implement recommendations. Task assigned to Paul Nemeth/ESCG.
 - Redlines submitted have been incorporated.
 - Meeting Friday, February 25.
- Open Item AMS_02-Doc_Review-67: Update Vacuum Case ICD as indicated. Task assigned to Phil Mott/ESCG.
 - CR to be distributed later today.
 - Per Trent Martin/EA2, the document will need to be submitted to the DDMS.



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National Aeronautics and
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February 23, 2005

Open Discussion

- Win Reid/OZ pinning down XA on handrail dimensions. Needs to be decided soon if another WIF is needed. Still unclear what is needed.
 - Pressing XA to build hardware.
 - XA needs a date for delivery.
 - XA still determining cost of hardware.
- JJ Conwell/MO said there is a MIP review on March 17, 2005. This will be a working meeting. Need answers to the TBDs.
 - Paul Nemeth/ESCG to send overview to JJ Conwell/MO.
 - There will need to be AMS support at the meeting.
 - Agenda to be sent out later this week.
 - An advanced copy of the MIP will be out shortly for review.
- Trent Martin/EA
 - Next CCB is scheduled for March 2, 2005.
 - Change Request AMS-02/D-010: Baseline AMS-02 Structural Verification Plan for the Space Transportation System and the ISS will be presented for approval.

Paul Nemeth/ESCG adjourned meeting at 2:58 pm.

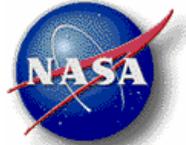
Minutes Approval: _____



Alpha Magnetic Spectrometer
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Alpha Magnetic Spectrometer Configuration Control Board (CCB) Minutes

February 23, 2005



National Aeronautics and
Space Administration

Attachment 1

CCB Sign-in Sheet



Alpha Magnetic Spectrometer Configuration Control Board (CCB) Sign-in Sheet



Alpha Magnetic Spectrometer
NASA / DOE

National Aeronautics and
Space Administration

February 23, 2005
2:00 – 4:00 pm
Building 1, Room 920L

Position	Name	Phone Number	Signature
Chairman	Porter, Steve	281-244-7149	
Member	Martin, Trent	281-483-3296	via telecon
Member	Vaughan, Anne	281-244-0257	
Member	Conwell, J.J.	281-483-1178	JJ Conwell
Member	Kaplan, David	281-483-3729	David Kaplan
Member	Reid, Winston	281-226-4809	W Reid
Member	Keifenheim, Jack	321-867-6028	
Member	Hungerford, Bill	281-218-7022	via telecon
Member	Nemeth, Paul	281-461-5715	Paul Nemeth
Secretary	Cox, Donna	281-461-5711	Donna Suzanne Cox



Alpha Magnetic Spectrometer Configuration Control Board (CCB) Sign-in Sheet



Alpha Magnetic Spectrometer
NASA / DOE

National Aeronautics and
Space Administration

Position	Name	Phone Number	Signature
Attendee	Arnold, Larissa	281-483-0623	
Attendee	Bailey, Chuck	281-244-5093	
Attendee	Caldwell, Steve	281-483-7766	
Attendee	Capell, Mike		
Attendee	Clark, Craig	281-461-5378	<i>Cy S. Clark</i>
Attendee	Cook, Gene	281-244-8467	
Attendee	Corbin, Cheryl	281-244-1830	
Attendee	Cornwell, John	281-483-9164	<i>John Cornwell</i>
Attendee	Dennett, Peter		
Attendee	Donahoe, Stan	281-483-4256	
Attendee	Echols, Ray	256-544-5354	
Attendee	Farner, David	281-461-5392	
Attendee	Fohey, Mike	281-461-5684	<i>M. F. Fohey</i>
Attendee	Gibb, Margaret	281-244-0284	
Attendee	Harold, Ross A.	281-461-5713	
Attendee	Harris, Mary	281-483-8261	
Attendee	Harris, William		
Attendee	Hill, Leland	281-461-5701	<i>via telecon</i>
Attendee	Jeevarajan, Judith	281-483-4528	



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Alpha Magnetic Spectrometer Configuration Control Board (CCB) Sign-in Sheet



National Aeronautics and
Space Administration

Position	Name	Phone Number	Signature
Attendee	Lear, Dana	281-483-2984	
Attendee	Lewis, Ruthan	301-286-1694	
Attendee	Miley, Bob		via telecon
Attendee	Morgan, Susan	281-483-4935	
Attendee	Mott, Phil	281-461-5712	<i>Phil Mott</i>
Attendee	Munoz, Nancy	281-483-9015	
Attendee	Orndoff, Evelyne	281-483-9117	
Attendee	Petri, David	281-483-9622	
Attendee	Piatek, Irene	281-483-9043	
Attendee	Rains, George (Ed)	281-244-8111	
Attendee	Rybicki, Dan	281-244-5181	
Attendee	Sauceda, Tania	281-244-1612	
Attendee	Schoenberg, Rich	281-483-6437	
Attendee	Schwarz, Roger	281-483-2378	
Attendee	Stanford, John	281-483-1347	
Attendee	Stevenson, L. D.	281-244-8890	
Attendee	Tutt, Chris	281-461-5703	<i>Chris Tutt</i>
Attendee	Urban, Tim	281-461-5702	<i>Tim Urban</i>



Alpha Magnetic Spectrometer
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Alpha Magnetic Spectrometer Configuration Control Board (CCB) Sign-in Sheet



National Aeronautics and
Space Administration

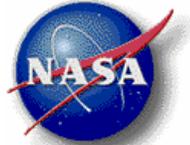
Position	Name	Phone Number	Signature
Attendee	Bruce Sommer	281-4265700	<i>[Signature]</i>
Attendee	Barbara J Miller	281-244 8890	<i>[Signature]</i> CB crew office
Attendee	Carlos G. Barcan	281. 244.1902	<i>[Signature]</i>
Attendee	Tim Wood	281 483.9661	<i>[Signature]</i>
Attendee			



Alpha Magnetic Spectrometer
NASA / DOE

Alpha Magnetic Spectrometer Configuration Control Board (CCB) Minutes

February 23, 2005



National Aeronautics and
Space Administration

Attachment 2

Open Action Items Matrix



Alpha Magnetic
Spectrometer NASA / DOE

Open Paper Management Tool

Open Items Report



National Aeronautics and
Space Administration

Open Items Report

Open Item Number: 04-046

RID Open Date: 8/1/2004

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

Tuesday, March 01, 2005

Open Items Report

Action Number: 1 **Actionee(s):** Bill Hungerford/AMS
Trent Martin/EA

Phone Number(s):
281-483-3296

Action Due Date: 7/31/2005

Action Completion Date:

Action *Build an integrated logic flow, assembly, and test (LFAT Schedule?) schedule and for the payload at CERN. Include a clear plan for Quality and MRB Authority for the payload integration and assembly at CERN. Ensure that an iterative electrical / functional test scheme is included to ensure adequate operation of hardware / software before access to that "installed" crate or detector is no longer possible.*

Action Status: *02/09/05 - We will build an integrated plan at JSC to go through with the AMS Collaboration. The plan will have to be approved by the Collaboration. The plan is to have: (1) NASA representative at CERN for the integration process and (2) NASA provide a quality representative to be at CERN at all time for quality control during integration process*

01/19/05 - briefed by G. Laurenti/AMS at KSC TIM; facility at Geneva looking for alternative; STA magnet test here at JSC or IBG, Aech (proposed by K. Lubelsmeyer/AMS), or ETH Zurich; Looking into options as backup to CERN (Aguilar/AMS working the issue); T. Mart wants G. Laurenti's schedule to be in scheduling format.

12/10/04 - Discuss issue at KSC TIM in January 2005; splinter meeting of detectors

11/17/04 - To be discussed at the Integration meeting being held at CERN December 7-9, 2004

08/01/04 - Plan due by 09/18/04; Questionare sent to detector groups to initiate process. Meeting scheduled at CERN Sept 13 and 14, by Giuliano Laurenti, to consolidate and refine inputs from various detector and sub-system groups. Should result in development of preliminary LFAT Schedule for review at October TIM

Open Items Report

Open Item Number: 04-051

RID Open Date: 8/1/2004

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

Tuesday, March 01, 2005

Open Items Report

Action Number: 1 **Actionee(s):** OZ/Bob Miley

Phone Number(s):

Action Due Date: 2/28/2005

Action Completion Date:

Action Finalize SSRMS requirements around the AMS-02

Action Status: 02/23/05 - Win Reid/OZ rolling it into ICD. Exception to be in the ICD. Win Reid/OZ stated that the ICD book manager restrained within return to flight effort. Need something in writing that SSRMS will not get within the 10 gauss limit. Baselined PIA due mid April. Baseline ICD due mid June.

02/09/05 - ISS ICD – turning in PIA baselined first. Still other actions to be handled (3 Kw of power the station guaranteed and duration for fiber optic). Plan to remove the TBRs. Win Reid to check on the actions on the ISS side. Action item to be discussed at next week's ta meeting on February 16, 2005.

12/10/04 - ISS ICD to be released 02/05; question how to get into official documentation; New status to be provided in January

11/17/04 - Add PIRN/Waiver

09/29/04 - To be discusses at the CCB on 10/27/04

08/11/04 - Needs hazard report

08/01/04 - Plan due by 09/18/04

Open Items Report

Open Item Number: 04-055

RID Open Date: 8/1/2004

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

Tuesday, March 01, 2005

Open Items Report

Action Number: 1 **Actionee(s):** Chris Tutt/ESCG

Phone Number(s): 281-461-5703

Action Due Date: 1/30/2005

Action Completion Date:

Action Review the composite panel strength testing results and requirements from the Structures Working Group with variability of data and relative p of data.

Action Status: 02/23/05 - Information was submitted to Deneen Taylor/ES2. Deneen Taylor/ES2 had questions. Chris Tutt/ESCG meeting with her after CCB.

02/09/05 - Chris Tutt/ESCG provided data to the Structures Working Group (SWG). SWG is still looking at the data and has not provide Chris Tutt/ESCG with an update. Action item status to be provided at CCB meeting on February 23, 2005.

01/19/05 - C. Tutt/LMSO received a phone call from P. Romine, there is enough concern on whether test cases run on allowable; Issue i worked, no date given for completion

01/05/05 - Chris Tutt will get this done shortly

12/10/04 - Chris Tutt has met with Lockheed Martin SWG; acceptance needs to be by NASA SWG; requested meeting, but has received r response; send list of issues and what needs letter to Win Reid and John Stanford.

10/05/04 - Chris Tutt setting up meeting with SWG

08/01/04 - Plan due by 09/18/04

Open Items Report

Open Item Number: 04-056

RID Open Date: 8/1/2004

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

Action Number: 1 *Actionee(s):* Chris Tutt/ESCG
Bill Hungerford/AMS
Paul Nemeth/ESCG

Phone Number(s): 281-461-5703

281-461-5715

Action Due Date: 8/15/2005

Action Completion Date:

Action Provide the plan for Surveillance of Safety Critical assembly and test steps of Collaboration Hardware.

Action Status: 02/09/05 - Mike Fohey/ESCG and David Kaplan/NT to discuss the MVP schedule. The MVP is a deliverable on the ESCG contract and delivered no later than 8 months from February 1, 2005.

Open Items Report

Open Item Number: 04-069

RID Open Date: 8/4/2004

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

*Action Number: 1 Actionee(s): Leland Hill/ESCG
Chris Tutt/ESCG*

*Phone Number(s): 281-461-5701
281-461-5703*

Action Due Date: 5/1/2005

Action Completion Date:

Action Coordinate closeout photo tasks; Need to verify we get closeout photos before hardware is closed up; Need update the pre-flight imagery plan

Action Status: 10/05/04- final documentation must be done after Surveillance Plan for Safety Critical Structure

09/29/04 - Draft documentation is complete

Open Items Report

Open Item Number: 04-115

RID Open Date: 11/29/2004

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

*Action Number: 1 Actionee(s): Paul Nemeth/ESCG
Mike Fohey/ESCG*

*Phone Number(s): 281-461-5715
281-461-5684*

Action Due Date: 3/31/2005

Action Completion Date:

Action Investigate to see if we need a FEMA/CIL for AMS. If not, what are we doing in place of the FEMA/CIL?

*Action Status: 02/09/05 - Paul Nemeth/ESCG will write up what the options are and what we are doing. Tim Urban/ESCG has looked at the issue and v
write something up for comparison. Will need to coordinate with John Stanford and NT.*

01/05/05 - presentation to be given at CCB in March 2005

12/08/04 - presentation to be given at CCB on January 5, 2005

Open Items Report

Open Item Number: 04-117

RID Open Date:

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

*Action Number: 1 Actionee(s): Craig Clark/ESCG
Joe Burger/AMS*

Phone Number(s): 281-461-5714

Action Due Date: 3/31/2005

Action Completion Date:

Action Extending Magnet Life - Make sure we have the capability to provide 150W of power into the cryo-coolers (-vs- the 100W nominal power).

Action Status: 01/05/05 - Craig Clark/LMSO staed that we have the capability to run at 150W per GSFC.

Open Items Report

Open Item Number: 04-120

RID Open Date: 12/6/2004

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

Action Number: 1 **Actionee(s):** Leland Hill/ESCG

Phone Number(s): 281-461-5701

Action Due Date: 3/31/2005

Action Completion Date:

Action Work with all AMS experimenters to close out all open issues associated with the Phase II Flight Safety Review Safety Data Package.

Action Status: 01/19/05 - Some data has been received since the October TIM and January TIM; Some data not due until March 2005; Due date was changed from 01/31/05 to 03/31/05; Final Safety Data Package due 03/08/05.

Open Items Report

Open Item Number: 05-001

RID Open Date: 2/9/2005

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

*Action Number: 1 Actionee(s): Ross Harold/ESCG
Bill Hungerford/AMS*

Phone Number(s): 281-461-5713

Action Due Date: 2/23/2005

Action Completion Date:

Action *Get together and discuss the pros/cons of CR and impact to the schedule. Steve Porter doesn't want this to impact the critical path. If it is in the critical path, it will not be considered.*

Action Status: *02/23/05 - Action item status to be provided at the next CCB on March 2, 2005. Plan being put together. It does not seem to impact the c path, but there is a cost issue. Paul Nemeth/ESCG to set-up meeting to brief Steve Porter/EA on Monday, February 28.*

Open Items Report

Open Item Number: 05-002

RID Open Date: 2/9/2005

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

Action Number: 1 **Actionee(s):** Paul Nemeth/ESCG

Phone Number(s): 281-461-5715

Action Due Date: 2/23/2005

Action Completion Date:

Action Brief Steve Porter/EA on the pros/cons and impact to schedule, concept, and costs before the next CCB so that the CR with modifications can be approved.

Action Status: 02/23/05 - Action item status to be provided at the next CCB on March 2, 2005. Paul Nemeth/ESCG to set-up meeting to brief Steve Porter on Monday, February 28.

Open Items Report

Open Item Number: 05-003

RID Open Date: 2/9/2005

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

Action Number: 1 **Actionee(s):** Chris Tutt/ESCG

Phone Number(s): 281-461-5703

Action Due Date: 2/23/2005

Action Completion Date:

Action Steve Porter/EA requested a write up about any open action items regarding SSP57003.

Action Status: 02/23/05 - Have an agreement about how to handle issue. New model to be submitted to Boeing for new DAC cycle. Loads from this will final. In the mean time, DAC-8 loads will be used with an uncertainty factor. Waiting for concurrence from Michael Grygier/ES2. Trent Martin/EA2 stated it needs to be put into a waiver in the ICD. An email will be justification for waiver.

Open Items Report

Open Item Number: 05-004

RID Open Date: 2/9/2005

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

Action Number: 1 **Actionee(s):** Chris Tutt/ESCG
Vic Sanders/Boeing

Phone Number(s): 281-461-5703

Action Due Date: 2/23/2005

Action Completion Date:

Action Work on closure plans for all open Boeing PEI issues. Should also include Kornel Nagy or Hung Nguyen with structures. Steve Porter/EA want to know who the ultimate arbitrator for structures.

Action Status: 02/23/05 - As soon as a response is received from Boeing PEI on the Structural Verification Plan (SVP) will close this action.

Open Items Report

Open Item Number: 05-005

RID Open Date: 2/23/2005

RID Closure Date:

Title:

Affected Document:

Initiator(s):

Initiator(s) Phone Number:

Description:

RID Disposition:

RID Status:

Action Item Information

Action Number: 1 Actionee(s): Chris Tutt/ESCG

Phone Number(s): 281-461-5703

Action Due Date:

Action Completion Date:

Action Send all of the legacy documents (revisions A-C) to Trent Martin/EA2.

Action Status:

Open Items Report

Open Item Number: AMS_02-CDR-01

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-1-10: Lack of Safety Information/ Documentation for the Thermal Control System (TCS) **Affected Document:** JSC 28792

Initiator(s): H. Flynn/NASA-JSC

Initiator(s) Phone Number: 281-483-1198

Description: From the limited information provided in Table E2, it is not possible to determine the safety requirements compliance of the TCS. Missing information includes: a system schematic, quality and type of working fluid, brief explanation(s) of the subsystem Maximum Design Pressure (MDP) determinations, itemized list of each part number/component, etc

RID Disposition: Approved

RID Status: Closure Pending Documentation

Action Item Information

Action Number: 1 **Actionee(s):** Chris Tutt/ESCG

Phone Number(s): 281-461-5703

Action Due Date: 3/31/2005

Action Completion Date:

Action Provide information in Phase II Safety Data Package and SVP will be updated.

Action Status: 01/19/05 - Due date changed from 01/30/05 to 03/31/05.

Open Items Report

Open Item Number: AMS_02-CDR-04

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-1-14: Lack of EVR Data in CDR Package

Affected Document:

Initiator(s): A. Mootty/Boeing PEI

Initiator(s) Phone Number: 281-226-4605

Description: The CDR package is lacking data (both design and analysis data) on the AMS-02 EVR accommodations for assessment of robotics compa with SSP 57003 requirements.

RID Disposition: Approved

RID Status:

Action Item Information

Action Number: 1 **Actionee(s):** Ross Harold/ESCG
Paul Nemeth/ESCG

Phone Number(s): 281-461-5633
281-461-5715

Action Due Date: 1/30/2005

Action Completion Date:

Action AMS will provide all design and analysis data required to meet EVR requirements per SSP 57003.

Action Status: 02/09/05 - Steve Porter/EA is to be tagged up with this action is ready to be closed.

01/19/05 - C. Tutt/LMSO and R. Harold/LMSO to discuss all open issues; C. Tutt/LMSO to send email to W. Reid/OZ to let him know wh LMSO is ready to meet with Boeing PEI and W. Reid/OZ will set-up meeting; Meeting should also include T. Martin/EA and G. Cook; An open action with Boeing PEI needs to be brought to the CCB so that the CDR items can be closed.

Open Items Report

Open Item Number: AMS_02-CDR-05

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-1-15: AMS-02 Passive Payload Attach System (PAS)

Affected Document: N/A

Initiator(s): M. Whitworth/Boeing PEI

Initiator(s) Phone Number: 281-226-4234

Description: SSP 57003 para. 3.1.1.2.3 (Design Loads) requires that the PAS/UCCAS interface shall be designed to withstand the interface loads in Tc 3.1.1.2.3-2 combined with the preload defined in paragraph 3.1.3.1.3.1 and the thermal loads derived from the environment defined in paragraph 3.5.1.12. Paragraph 3.5.1.12 states to use 0.2G and 0.4G on orbit load factors. This analysis used the interface loads and ba calculated the on-orbit load factors which were less than 0.05 G's. This calculation method is not appropriate.

RID Disposition: Approved

RID Status: Open due to pending action

Action Item Information

Action Number: 2 **Actionee(s):** Chris Tutt/ESCG

Phone Number(s): 281-461-5703

Action Due Date: 10/20/2004

Action Completion Date:

Action Update SVP and complete analysis.

Action Status: 01/05/05 - Per Chris Tutt/LMSO the SVP is updated. Talked to PEI and they refuse to closed the RID with no justification. Note: M. Witv has left the company so V. Sanders has taken over RID.

Chris Tutt/LMSO to send PEI responses to Win Reid/NT and Win will work it through his contact at PEI.

RID and OPMT item will be closed as soon as the Change Request and document have been approved.

12/08/04 - currently in internal review cyle at Lockheed Martin; to be sent out within 2 weeks to be approved at CCB on 01/05/05.

10/05/04 - SVP updated, still needs signature

Open Items Report

Open Item Number: AMS_02-CDR-06

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-1-17: Meteoroid/Orbital Debris Shielding

Affected Document: AMS-02 CDR Version 2

Initiator(s): E. Christiansen/NASA

Initiator(s) Phone Number: 281-483-5311

Description: Shielding from meteoroid/debris impact is inadequate to meet protection requirements. Shielding of pressurized vessels on AMS-02 such as vacuum case and TRD (as well as any other pressure vessel) is required to prevent catastrophic rupture of these tanks in the event of meteoroid/debris impact which would release high-velocity fragments creating a potentially serious safety issue for on-board crew. The probability of no penetration (PNP) using specified environment models is 0.97 which is far below the specified 0.997 PNP requirement. Updating ballistic limit equations and models as described in the forward work plan does not appear adequate to show compliance with requirements. Additional or significantly enhanced shielding will likely be necessary to meet safety requirements.

RID Disposition: Approved

RID Status: Open - Deferred to next cycle review

Action Item Information

Action Number: 1 **Actionee(s):** Dana Lear/ESCG

Phone Number(s): 281-483-2998

Action Due Date: 7/1/2006

Action Completion Date:

Action Complete analysis and coordinate design of debris shields. To be completed by Phase III Safety.

Action Status: 02/09/05 - Chris Tutt/ESCG sent an email to Dana Lear/ESCG requesting a letter from Eric Christiansen/KX with the requirements and his signature.

01/19/05 - L. Hill/LMSO to get in touch with D. Lear/LMSO to discuss what L. Hill/LMSO needs for Phase II. C. Tutt/LMSO, P. Mott/LM & R. Harold/LMSO need to be involved. T. Martin/EA stated that anything pressure safety critical needs to be covered.

Open Items Report

Open Item Number: AMS_02-CDR-08

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-2-07: Bolt in Sloppy Holes Assured to Take Shear

Affected Document: N/A

Initiator(s): B. Ritter/GSFC

Initiator(s) Phone Number: 301-286-9022

Description: Bolts attaching the support ring to the conical flange were assumed to transfer shear, even though they are in sloppy holes this is non-conservative.

RID Disposition: Approved

RID Status: Open

Action Item Information

Action Number: 1 **Actionee(s):** Chris Tutt/ESCG

Phone Number(s): 281-461-5703

Action Due Date: 5/31/2005

Action Completion Date:

Action Work with SWG to resolve concerns with compliance with NASA-STD-08307, including bolts in sloppy holes being assumed to take shear.

Action Status: 02/09/05 - Action item due date was changed to May 31, 2005. Bolt analysis was done to Lockheed Martin standards. Structures Worki Group (SWG) has new standards. Currently looking to see how many interfaces have issues and what needs to be done. Action item wa changed from 'Work bolt concerns with the SWG.' to 'Work with SWG to resolve concerns with compliance with NASA-STD-08307, inclu bolts in sloppy holes being assumed to take shear.'

Open Items Report

Open Item Number: AMS_02-CDR-09

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-2-15: Missing Documents - Structural Analysis

Affected Document: N/A

Initiator(s): Murthy Pinnamaneni Structures/Boeing

Initiator(s) Phone Number: 281-226-5665

Description: The following items were not available in the Data Package: design load factors, dynamic analysis procedure and results. From 2.2.1, AM Report Outline.doc, Magnetic Strap Analysis and the Coupled Loads Analysis, which are identified to be in "separate sections." Reports/documents that include: Dynamic Loads Analysis Description; Payload/Shuttle Interface Loads; Trunnion Deflection; Trunion Misalignment Loads; and Uncertainty Factors Used in the Analysis.

RID Disposition: Approved

RID Status: Closure Pending Documentation

Action Item Information

Action Number: 1 **Actionee(s):** Chris Tutt/ESCG

Phone Number(s): 281-461-5703

Action Due Date: 7/1/2006

Action Completion Date:

Action Update stress report and dynamics analyses reports. To be completed by Phase III Safety Data Pack.

Action Status:

Open Items Report

Open Item Number: AMS_02-CDR-12

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-4-18: Presentation Issues

Affected Document: Avionics & ACOP Presentations

Initiator(s): H. Hoang/PEI
J. Fu/PEO

Initiator(s) Phone Number: 281-226-6054

Description: The presentation for avionics is not adequate for documentation purpose to show compliance with SSP 57003 requirements.

RID Disposition: Approved

RID Status: Open

Action Item Information

Action Number: 1 **Actionee(s):** Tim Urban/ESCG

Phone Number(s): 281-461-5702

Action Due Date: 3/31/2005

Action Completion Date:

Action Supply document listing EMI/electrical specs.

Action Status: 02/09/05 - Try to get initiator's approval to merge this CDR action item with AMS-CDR-4-20 (OPMT action item AMS_02-CDR-13 by ne CCB. Action item due date was changed to March 31, 2005.

01/05/05 - Paul Nemeth/LMSO to ask initiator if this RID can be rolled into RID AMS-CDR-4-18 and Open Action Item AMS_02-CDR-13

Open Items Report

Open Item Number: AMS_02-CDR-13

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-4-20: Power Compatibility and EMC Testing

Affected Document: Avionics Overview

Initiator(s): H. Hoang/PEI
J. Fu/PEO

Initiator(s) Phone Number: 281-226-6054

Description: The EME Control Plan (or equivalent) used to establish the plan for how AMS will be compatible with the ISS EMI requirements is lacking the CDR package.

RID Disposition: Approved

RID Status: Open

Action Item Information

Action Number: 1 **Actionee(s):** Tim Urban/ESCG

Phone Number(s): 281-461-5702

Action Due Date: 3/31/2005

Action Completion Date:

Action Supply EME control plan.

Action Status: 02/09/05 - Try to get initiator's approval to merge this CDR action item with AMS-CDR-1-18 (OPMT action item AMS_02-CDR-12 by ne CCB. Action item due date was changed to March 31, 2005.

01/05/05 - Tim Urban/LMSO to provide status March 2005.

Open Items Report

Open Item Number: AMS_02-CDR-14

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-4-24: No Cable List and Derating Analysis of Cables

Affected Document: N/A

Initiator(s): D. Beverly/EEE

Initiator(s) Phone Number: 281-483-0250

Description: There is no evidence of wiring or external cable list. The derating of the wire and cables has not been performed.

RID Disposition: Approved

RID Status: Open

Action Item Information

Action Number: 1 **Actionee(s):** Dewey Nguyen/ESCG
Tim Urban/ESCG

Phone Number(s): 281-461-5681
281-461-5702

Action Due Date: 10/30/2004

Action Completion Date:

Action Supply wire list and derating details.

Action Status: 02/09/05 - Dewey Nguyen/ESCG has parts list but it is more complex than needed. Distilling and derating list in work. Next status date March 31, 2005.

01/05/05 - Changes have been submitted and is under review by Shuttle Avionics Integration.

Open Items Report

Open Item Number: AMS_02-CDR-15

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-4-25: Connector Designator in AMS-02 Wiring Diagram

Affected Document: SIG39136082

Initiator(s): Y. Jaurigue/AG-92-J34B

Initiator(s) Phone Number: 281-226-5634

Description: I/F Panel A P6/J6 should be P7/J7 to interface from the Standard Switch Panel (SSP), using the standard mixed cargo harness, to AMS-0 control electronics per earlier agreement between the customer & USA/NASA ('Proposed STS cabling requirements for AMS-02' agreed October 30, 2001: Danny Irvin, Mariella Hartgerink, Michael Gerlach, and Ed Walters).

RID Disposition: Approved

RID Status: Open

Action Item Information

Action Number: 1 **Actionee(s):** Paul Nemeth/ESCG
Tim Urban/ESCG

Phone Number(s): 281-461-5715
281-461-5702

Action Due Date: 10/30/2004

Action Completion Date:

Action Implement recommendation.

Action Status: 02/23/05 - Redlines submitted have been incorporated. Meeting Friday, February 25. Drawings should be ready for review on Friday.

02/09/05 - Waiting for Boeing import/export approval. Gene Cook/OZ requested a couple of days to work this issue.

01/05/05 - Changes have been submitted and is under review by Shuttle Avionics Integration.

10/05/04 - Paul Nemeth to check on status of action

Open Items Report

Open Item Number: AMS_02-CDR-16

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-4-26: AMS-02 Wiring Schematic

Affected Document: SIG39136082

Initiator(s): Y. Jaurigue/AG-92-J34B

Initiator(s) Phone Number: 281-226-5634

Description: 1. On sheet 3, i/f panel a connector p6/j6 should be p7/j7 to interface to the ssp via smch cabling per earlier agreement ("proposed sts cabling requirement for ams-02" agreed in october 30, 2001: danny irvin, mariella hartgerink, michael gerlach, and ed walters). Also the emc classification for interface wiring through j6/p6 appears to be rf. Change the shielded pair wires to twisted pair wires for eo, ho, or ml cabling - where appropriate. Redlines will be given @ ams-02 cdr avionics splinter.

2. On sheet 3, the interface wiring through i/f panel a connector p5/j5 has two return line when there is only one available on p5 pin 35. The 3 discrete output low signals from the mdm pf1 are available on pda connector p5 pins 32, 33 and 34.

3. On sheet 3, the interface wiring through i/f panel a connector j4/p4 is missing a pair of shielded ground wires for rs-422 #1 and #2. Pin 10 of pda connector p4 is assigned for rs-422 #2 gnd and pin 10 of pda connector p4 is for rs422 #1.

4. On sheet 3, interface wiring from ams-02 rs-422 #1 and #2 through i/f panel a connector j4/p4 to pdip2 p103 / j103 is different from the "proposed sts cabling requirement for ams-02" provided to paul nemeth via e-mail from d. Irvin on 12/07/2001 and boeing control schen vs72-config 1 last revised on 11/24/2002. A unique cable will have to be built to support ams-02 rf requirements.

5. This drawing should show the ams-02/gfe cable required to provide connectivity between ams-02 rs-422 service and t-0 connector j59.

RID Disposition: Approved

RID Status: Open

Action Item Information

Open Items Report

Action Number: 1 **Actionee(s):** Paul Nemeth/ESCG
Tim Urban/ESCG

Phone Number(s): 281-461-5715
281-461-5702

Action Due Date: 10/30/2004

Action Completion Date:

Action *Implement recommendation.*

Action Status: 02/23/05 - Redlines submitted have been incorporated. Meeting Friday, February 25. Drawings should be ready for review on Friday.

02/09/05 - Waiting for Boeing import/export approval. Gene Cook/OZ requested a couple of days to work this issue.

01/05/05 - Changes have been submitted and is under review by Shuttle Avionics Integration.

Open Items Report

Open Item Number: AMS_02-CDR-17

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-4-28: SPHe Electronics to I/F Panel A, GPC Cable Assembly, W11 **Affected Document:** SEG39136103

Initiator(s): Y. Jaurigue/AG-92-J34B

Initiator(s) Phone Number: 281-226-5634

Description: Sheet 2 of the above documents has two return lines when there is only one available on J5 mating Connector P5 Pin 35. Interface from the MDM PF1 which provides 3 discrete output low signals to the AMS-02 control electronics are available on connector P5 Pins 32, 33, and

RID Disposition: Approved

RID Status: Open

Action Item Information

Action Number: 1 **Actionee(s):** Dewey Nguyen/ESCG
Tim Urban/ESCG

Phone Number(s): 281-461-5681
281-461-5702

Action Due Date: 1/31/2005

Action Completion Date:

Action Implement recommendation.

Action Status: 02/23/05 - Redlines submitted have been incorporated. Meeting Friday, February 25. Drawings should be ready for review on Friday.

02/09/05 - Waiting for Boeing import/export approval. Gene Cook/OZ requested a couple of days to work this issue.

01/05/05 - Changes have been submitted and is under review by Shuttle Avionics Integration.

Open Items Report

Action Number: 2 *Actionee(s):* Steve Harrison/SCL

Phone Number(s):

Action Due Date: 1/31/2005

Action Completion Date:

Action Interface definition for control electronics to Vacuum Vent Valve

Action Status:

Open Items Report

Open Item Number: AMS_02-CDR-21

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-4-32: Missing Documents - Avionics

Affected Document: N/A

Initiator(s): Y. Jaurigue/AG-92-J34B

Initiator(s) Phone Number: 281-226-5634

Description: From the Flight Avionics Drawing Index, the following items were not available for review in the data package: 39136117 ROEU Connector Panel (Panel A), 39136118 ROEU Connector Panel Bracket (EW, YJ).

RID Disposition: Approved

RID Status: Open

Action Item Information

Action Number: 1 **Actionee(s):** Paul Nemeth/ESCG
Tim Urban/ESCG

Phone Number(s): 281-461-5715
281-461-5702

Action Due Date: 11/15/2004

Action Completion Date:

Action Implement recommendation.

Action Status: 02/23/05 - Based upon the ROEU re-design for EVA folding capability, the missing drawings are still in work. They will be provided at a later date.

01/05/05 - Changes have been submitted and is under review by Shuttle Avionics Integration.

11/18 - check status of action item on 11/29/04

Open Items Report

Open Item Number: AMS_02-CDR-22

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-4-33: RS422 DDRS-02/PDIP Cable Assembly

Affected Document: SED39136111

Initiator(s): Y. Jaurigue/AG-92-J34B

Initiator(s) Phone Number: 281-226-5634

Description: 1. The ``GND`` Pin for PDIP2 on connector P105 will mate with connector J105 pin 7.

2. Please see RID (boeing tracking number) ``Boeing-14 RID AFD AMS-02 wiring Schematic`` against SID39136110. The communication in the above document is unclear via the end to end interface nomenclatures. The RS-422 transmit and receive signal can be misinterpreted the payload (AMS-02) and result in a last minute payload wiring.

Please note there is a concern regarding the second RS-422 interface from PDIP2 P105 to PDIP1 J4 which can potentially interfere with shared use of the ku-band signal processor. It is preferred that only the required signal interface to PDIP1 J4 is used. If the high data rate digital data input of the ku-band signal processor is required per SIG39136083, use connector J4 (mating connector for P4) on PDIP1 P and 16.

RID Disposition:

RID Status: Open

Action Item Information

Open Items Report

Action Number: 1 Actionee(s): Paul Nemeth/ESCG

Phone Number(s): 281-461-5715

Action Due Date: 10/30/2004

Action Completion Date:

Action Supply EME control plan.

Action Status: 02/23/05 - Redlines submitted have been incorporated. Meeting Friday, February 25. Drawings should be ready for review on Friday.

02/09/05 - Waiting for Boeing import/export approval. Gene Cook/OZ requested a couple of days to work this issue.

01/05/05 - Changes have been submitted and is under review by Shuttle Avionics Integration.

11/18 - check status of action item on 11/29/04

Open Items Report

Open Item Number: AMS_02-CDR-23

RID Open Date: 5/1/2003

RID Closure Date:

Title: AMS-CDR-4-34: RS422 T-0/PDIP Cable Assembly

Affected Document: SED39136112

Initiator(s): Y. Jaurigue/AG-92-J34B

Initiator(s) Phone Number: 281-226-5634

Description: 1. The ``GND`` Pin for PDIP2 on connector P105 will mate with connector J105 Pin 7. Also, the gnd wire routed to connector P4 is inconsistency with drawing SID39136110, which routes the same wire to P103.

2. Please see rid for SID39136110. The communication flow in the above document is unclear via the end to end interface nomenclatures. RS-422 transmit and receive signal can be misinterpreted by the payload (AMS-02) and result in a last minute payload wiring.

Please note there is a concern regarding the second RS-422 interface from PDIP2 P105 to PDIP1 J4 which can potentially interfere with shared use of the ku-band signal processor. It is preferred that only the required signal interface to PDIP1 J4 is used. If the high data rate digital data input of the ku-band signal processor is required per SIG39136083, use connector J4 (mating connector for P4) on PDIP1 P and 16.

Also, it is recommended that pin to pin interface from PDIP2 P105 to P103 be as follows:

PDIP2 P105 - 3, 7, 6, 5, 12, 13, 10, 9, 2, 1

PDIP P103 - 3, 7, 13, 12, 5, 6, 10, 9, 2, 1

RID Disposition: Approved

RID Status: Open

Action Item Information

Open Items Report

Action Number: 1 **Actionee(s):** Paul Nemeth/ESCG

Phone Number(s): 281-461-5715

Action Due Date: 10/30/2004

Action Completion Date:

Action Implement recommendation.

Action Status: 02/23/05 - Redlines submitted have been incorporated. Meeting Friday, February 25. Drawings should be ready for review on Friday.

02/09/05 - Waiting for Boeing import/export approval. Gene Cook/OZ requested a couple of days to work this issue.

01/05/05 - Changes have been submitted and is under review by Shuttle Avionics Integration.

11/18 - check status of action item on 11/29/04

Open Items Report

Open Item Number: AMS_02-Doc_Review-67

RID Open Date: 6/24/2004

RID Closure Date:

Title: Updates to JSC 29202

Affected Document: JSC 29202

Initiator(s): T. Martin/LMSO

Initiator(s) Phone Number: 281-333-6114

Description: Vacuum Case ICD changes (JSC-29202B)

1. Change JSC Directorate.
2. Remove Ken Bollweg, J.R. Bates, J. Ross, and Professor K. Luebelsmeyer on signature pages. Add Trent Martin, Steve Porter, Robin St Allen, and (?? for Aachen).
3. Update Figure 1.2-1, AMS-02 Payload and Experiment
4. Update Figures 2.1-1 and 2.1-2, AMS-02 Payload and Experiment Coordinate Axis and Origin (Note: There are no changes to the dimensions. These models are over 2 years old and out of date)
5. Update Figure 2.2.1-2, Vacuum Case Cross-Section. Dimensions have not changed but figure already exists that contains a better representation of the magnet and helium tank.
6. Update Figure 2.2.1-5, O-Ring Groove Detail. Remove o-ring or show compressed. Remove "Note: All dimensions are TBD pending the results of the small scale o-ring test."
7. Update strap port details in Figures 2.2.3-4 through 2.2.3-7 based on assembly issues during the Denver dynamic tests. (These change already made on the Vacuum Case drawings)
8. Update the feed thru port callouts on Figures 2.2.4-1 through 2.2.4-3. The locations have not changed.
9. Rename section 2.2.7 from Cryo Service Port to SFHe Tank Fill Port. Update text to remove references to Cryocoolers in this section.
10. Update section 2.2.8 and figures to reflect the new SFHe Tank Fill Port. This will include both flight and ground configurations. All o keep in/out zones have not changed.
11. Update section 2.2.9 and figures. Several generic holes were removed due to redesign after weight increase.

Open Items Report

12. Update section 2.2.11.3 and figures. Several generic holes were removed due to redesign after weight increase.
13. Update section 3.1 to add more detail on the assembly of the cold mass/cmr to the vacuum case.
14. Update section 3.1.2, Strap System.
15. Update section 3.2, Assembly procedure between VC and ACC.
16. Update section 3.3, Assembly procedure between VC and Tracker.
17. Update section 4.0, Vacuum Case vacuum and test requirements.
18. Update document per the attached changes (Vacuum Case ICD Changes.doc)

RID Disposition: *Approved*

RID Status: *Open due to pending action*

Action Item Information

Action Number: 1 **Actionee(s):** *Phil Mott/ESCG*

Phone Number(s): *281-461-5712*

Action Due Date: *9/30/2004*

Action Completion Date:

Action *Update as indicated*

Action Status: *02/23/05 - CR to be distributed later today. Per Trent Martin/EA2, the document will need to be submitted to the DDMS.*

02/09/05 - VC ICD Change Requests to be issued shortly.

01/19/05 - VC ICD and SVP Change Requests to be issued before the end of January 2005. Change LMSO to Jacobs or contractor.

01/05/05 - The above suggestions have been incorporated into the document. Document currently in internal review at LMSO. Change 1 (CR) and document will be going through the AMS Configuration Control Board (CCB) for approval. Once CR and document have been approved, the RID and action will be closed.

Open Items Report

Open Item Number: AMS_02-Doc_Review-75

RID Open Date: 6/24/2004

RID Closure Date:

Title: 2nd ACOP System

Affected Document: Project Plan & PIA

Initiator(s): M. Capell/MIT

Initiator(s) Phone Number: +41 (22) 767 4706

Description: The AMS collaboration requests an additional Express Rack Locker location to house a 2nd ACOP system (plus the corresponding MDL mass, etc). Additional details will be provided soon, however it is anticipated that this will be run in cold, unplugged redundancy. This change is required to ensure that the data that AMS will be taking over decades (as opposed to the previously foreseen 3+ years), which is needed to accurately measure the interplanetary radiation environment, will be successfully archived.

RID Disposition:

RID Status: Open

Action Item Information

Action Number: 1 **Actionee(s):** Trent Martin/EA2

Phone Number(s): 281-483-3296

Action Due Date: 3/2/2005

Action Completion Date:

Action

Action Status:
