



# Minutes of the 47th MMPDS Coordination Meeting

## Held in:

Portland, OR  
March 16-19, 2026

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### Compiled by:

Battelle  
505 King Avenue  
Columbus, OH 43201-2693

### Prepared for:

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Atlantic City, NJ 08405

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# 47<sup>th</sup> MMPDS Coordination Meeting

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## Introduction of Attendees

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A list of 47th Coordination Meeting attendees, indicating the meetings they attended, has been incorporated into this document.

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## Approval of the 47<sup>th</sup> MMPDS Meeting Minutes

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Per the Foreword of MMPDS-2026, with a few exceptions, items are considered approved if no technical comments are received by Battelle within 30 days after these Final Minutes are circulated. This review period ends on June 18, 2026.

Attendees have until July 17, 2026, to notify Battelle of technical objections to those items. If no comments are received, the items will be closed.

# 46<sup>th</sup> MMPDS Coordination Meeting

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## Chairman's Remarks - Jim Kabbara

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After several years' hiatus, I was very happy to return to the role of MMPDS Government Steering Group Chair. Thanks to everyone who participated in the 47th MMPDS General Coordination Committee meeting held in Portland, OR between March 15 and March 19. The Battelle team did an excellent job of preparing the Agenda, Handout, and meeting arrangements to keep the program moving forward. The meeting was well attended with 68 individuals in-person and 23 participating remotely throughout the week. These subject matter experts represented 42 different government and industry organizations.

As described in the Foreword to MMPDS, the standard review period for Final Minutes is 30 days after posting. Three items are designated for 60-day reviews. These Final Minutes are being sent to registered attendees and are available to Industry and Government Steering Group organizations through the member SharePoint site. If no negative technical comments are received by May 19, 2026 (regular items) or July 18, 2027 (60-day items), the items are formally approved. If negative technical comments are received before these deadlines, that item will be held open for discussion at the 48th MMPDS GCC meeting. Please advise Battelle as soon as possible if you have a technical comment.

The GCC closed 40 Agenda Items to make improvements and additions to MMPDS-2027. Mechanical properties for AISI 321 and 15-5PH will be upgraded from S-Basis to A/B-Basis. Data for AISI 304 was analyzed. AMS 5511 cannot be included in MMPDS because there is no lot-release testing requirement but the T99 and T90 values may be useful to companies using this alloy. Fatigue curves for 15-5PH Types 1 and 2 will be included. An unplanned highlight was the daily flyover by two pairs of F15 Eagles each morning.

The 48th MMPDS is scheduled to take place in Burlington, VT from September 14 through September 17. We look forward to seeing you there.

Norsk Titanium's US production facility is in Plattsburg, NY, about a 45 minute drive from Burlington. Battelle and Norsk are working out a plan to have an evening field trip during the week. Expect more information in the Announcement (June 16) and/or the Agenda (August 17). Thanks again for attending the 47th MMPDS GCC meeting. Your commitment, dedication, and donation of your valuable time to maintain MMPDS is most appreciated.

Best Regards,  
Jim Kabbara  
MMPDS Chairman  
Aerospace Engineer, Airframe Section, AIR-622  
Technical Policy Branch, AIR-620



# SUMMARIES

47th MMPDS Meeting Attendance			March 15th	March 16th									March 17th		March 18th		March 19th	
Last Name	First Name	Company Name	Orientation	ISG (Members Only)	GSG (Invitation Only)	ISG/GSG	MATSSG	FTG	Friction Stir Welding and AM	FSW	ASG	Executive Board	GTG	PSG	ETTG	Working Groups	MTG	GCC
Ananthasayanam	Balajee	Honda Aero Inc.																
Antony	Alphons Anandaraj	GKN Aerospace		x		x	x		x	x	x	x	x	x			x	x
Archibald	Michael	The Boeing Company											x		x			x
Baker	Andrew	Spirit AeroSystems, Inc.		x		x		x			x		x	x	x			x
Beckman	Jonathan	Gulfstream Aerospace Corporation		x		x		x	x	x			x		x			x
Bennett	Jay	National Aviation & Space Administration (NASA)			x	x			x	x			x	x	x	x		
Bennett	Russell	The Boeing Company		x		x					x		x		x			x
Bittner	Peter	Constellium LLC		x		x	x	x	x	x		x	x	x	x	x		x
Blackburn	James	Lockheed Martin	x	x		x		x	x				x	x	x			x
Bodensteiner	Jarod	Textron Aviation		x		x		x	x		x		x		x			x
Bryant	Nathan	University of Dayton Research Institute (UDRI)	x	x		x	x		x				x		x			x
Burgner	Abby	Lockheed Martin		x		x	x	x					x		x			x
Cardinal	Joseph	Southwest Research Institute (SwRI)											x		x			x
Casey	Michael	Parker Lord Corporation							x	x			x	x	x	x		
Christiansen	John	MTS Systems													x			x
Cordner	Sam	National Aviation & Space Administration (NASA)			x	x	x	x	x	x			x	x	x	x		x
Coronado	Peter	The Boeing Company		x		x		x					x	x	x			x
Crill	Matt	The Barnes Global Advisors											x		x	x		x
Davis	Joel	Rolls Royce		x					x		x		x	x	x	x		x
Dickson	Colister	Lockheed Martin	x	x		x	x				x		x		x			x
Elwell	Abram	The Boeing Company		x		x		x		x	x		x		x			x
Eveleth	Jacob	U.S. Airforce			x	x			x				x	x	x			x
Foster	Michael	Gulfstream Aerospace Corporation						x					x		x			x
Garcia Avila	Matias	ATI		x		x	x	x	x	x	x		x	x	x			x
Gill	Joseph	RTX		x		x	x				x			x	x	x		x
Gombio Rocha	Elisa	Embraer S.A.	x	x		x	x		x	x	x		x	x	x	x		x
Gorelik	Michael	Federal Aviation Administration (FAA)			x	x	x		x				x	x	x	x		x
Gurrola	Robert	Howmet Aerospace Inc.				x		x					x					x
Hall	Doug	Battelle	x	x		x							x	x	x	x		x
Hall	Gary	Bell Textron Inc.											x		x			x
Haynes	Kyle	Norsk Titanium AS		x									x		x			x
Hill	Leon	GKN Aerospace							x	x	x		x	x	x			x
Hung	Cain	RTX		x											x			x
James	Mark	Westmoreland Mechanical Testing & Research (WMTR)		x		x	x						x		x			x
Johnson	Dwight	Textron Aviation						x					x		x	x		x
Kabbara	Jim	Federal Aviation Administration (FAA)			x	x	x		x	x	x		x		x			x
Kershner	Christopher	U.S. Airforce			x								x		x			x
Lamas	Jose Eduardo	Embraer S.A.	x	x		x		x			x		x	x	x			x
Lamb	Justin	Universal Alloy Corp	x	x		x	x	x	x	x	x		x		x			x
LeBrun	Tyler	The Barnes Global Advisors											x		x			x
Lee	Keeyoung	KPCM Corp													x			x
Leight	Douglas	Parker Lord Corporation		x									x	x	x			x
Lengerich	Ben	Kaiser Aluminum		x		x	x						x		x			x
Lindsey	Daniel	U.S. Navy			x	x			x			x	x		x	x		x
Liou	Richard	RTX		x		x	x				x		x	x	x	x		x
Lipinski	Dorothy	Northrop Grumman Aerospace Systems		x		x		x					x		x			x
Lovingfoss	Royal	Wichita State University (WSU)	x	x														
Maciejewski	Kimberly	Arconic Inc.		x		x	x		x	x			x		x	x		x
Mantione	John	ATI		x		x	x		x		x			x				x
Marrs	Grayson	Battelle	x	x		x	x		x	x	x		x	x	x			x
Martin	John	America Makes													x			
Minotti	John	ITW/MTS	x	x		x	x			x	x		x	x	x	x		x

47th MMPDS Meeting Attendance			March 15th	March 16th									March 17th		March 18th		March 19th	
Last Name	First Name	Company Name	Orientation	ISG (Members Only)	GSG (Invitation Only)	ISG/GSG	MATSSG	FTG	Friction Stir Welding and AM	FSW	ASG	Executive Board	GTG	PSG	ETTG	Working Groups	MTG	GCC
Muldoon	Ariel	The Boeing Company		x		x		x					x		x		x	
Niedzinski	Michael	Constellium LLC													x		x	
Norimatsu	Koichi	IHI																
Ofsthun	Mark	Honda Aircraft Company LLC																
Olsen	Kirk	Parker Lord Corporation	x	x		x	x	x		x	x			x	x	x	x	
Parikh	Yash	EOS of North America, Inc.		x		x							x		x			
Piché	Marie	Bombardier Aerospace		x						x	x		x		x		x	x
Rahdar	Mehrdad	The Boeing Company		x		x	x	x	x	x	x		x	x	x		x	x
Ramaswamy	Nagarajan	Parker Lord Corporation				x			x		x		x	x	x	x	x	
Reakes	Clayton	Battelle		x		x		x	x				x	x	x	x	x	x
Riddle	Lenn	General Atomics		x		x	x	x			x				x			
Roepke	Caleb	Blue Origin LLC											x	x	x	x	x	x
Rubadue	Jana	Battelle		x		x							x		x	x	x	
Saunders	Matt	Howmet Aerospace Inc.						x										
Saville	Alec	Elementum3D	x	x		x	x		x		x		x	x	x	x	x	
Scalf	Cyndee	Battelle		x		x							x	x			x	
Scheuring	Jason	Kaiser Aluminum		x		x	x		x	x			x	x	x	x	x	x
Schultz	Ralph	Gulfstream Aerospace Corporation		x		x		x	x	x	x		x		x	x	x	
Sheffels	Christopher	Honda Aircraft Company LLC		x				x					x				x	
Smith	Ryan	Honda Aero Inc.		x		x							x	x	x	x	x	x
Smith	Dana	The Boeing Company				x												
Snyder	Matthew	Battelle	x	x		x	x		x	x	x		x	x	x	x	x	x
Steevens	Andrew	The Boeing Company		x		x		x	x	x	x		x		x	x	x	
Stepanova	Mariia	Norsk Titanium AS											x		x			
Stonaker	Kevin	Federal Aviation Administration (FAA)			x	x			x	x			x	x	x		x	x
Tay	Neville	Wichita State University (WSU)											x	x	x	x		
Tian	Yongzhe	Federal Aviation Administration (FAA)			x	x	x	x					x		x	x	x	
Torgerson	Tyler	Bell Textron Inc.						x			x		x		x	x	x	
Tummons	David	The Boeing Company		x		x		x	x	x			x	x	x		x	x
Vogel	Bret	Textron Aviation		x		x		x			x		x		x		x	
Vohsen	Teresa	Wichita State University (WSU)	x	x		x	x		x				x		x		x	x
Wang	Wesley	GKN Aerospace		x		x	x	x	x	x	x		x	x	x		x	x
Watanabe	Jennifer	The Boeing Company		x				x			x				x		x	
Watkins	Sarah	RTX											x	x	x		x	x
Wawrzyniak	Nicolas	Bombardier Aerospace											x		x		x	
White	Will	Battelle		x		x		x	x	x			x	x	x	x	x	x
Whitman	zachary	The Boeing Company		x		x			x		x		x		x	x	x	
Wilkins	Chris	Voyager Technologies	x					x	x				x	x	x		x	
Yohannes	Akliu	FAA																

**Observers**

## 47th MMPDS Coordination Meeting

### New Item Numbers Assigned in 2026

26-01	V2 Alloy Introduction - Section 6.1
26-02	V2 Alloy Introduction - Section 7.1
26-03	Mechanical Properties for 304 Stainless Steel
26-04	Cu-15Ni-8Sn (ToughMet 3) Temper Change
26-05	Editorial Changes Made in MMPDS-2026
26-06	Stabilization of AMS 4471 and AMS 4482 for 205/TiB2/3p
26-07	Stabilization of AMS 4917 for Ti-13V-11Cr-3Al
26-08	Stabilization of AMS 4920 Ti-6Al-4V Die Forgings
26-09	7075-T73X Bar, Rod and Shapes Grain Directions
26-10	Shear Specimen Orientation Pairing
26-11	Expansion of Uniformity Section
26-12	NASGRO Analysis of AMS 7004 FCGR data
26-13	S/N Fatigue Data for 7050 per AMS 4050
26-14	Legacy Alloy Review B/D-Basis Adjustment with A/C-Basis Adjustment
26-15	Editorial Changes Proposed for MMPDS-2027
26-16	Revision of V2 Table Format for Elongation and RA
26-17	Mechanical Properties for AISI 321 Stainless Steel per AMS 5510
26-18	Upgrade of Properties for 15-5PH per AMS 5862 H1025
26-19	Fracture Toughness Thickness Range
26-20	Fastener Wet-Pin and Dry-Pin Clarifications
26-21	Update Section 8.1.3, 8.1.4, and 8.1.5
26-22	Data Generation Requirement for Effect of Temperature
26-23	Test Laboratory Certification
26-24	Review & Revise Section 9.2.2, Volume II
26-25	Chapter 8 Table Specification Review
26-26	9.7.1.4 Shear Equation Correction and Text Update
26-27	Editorial Revisions in Chapter 3 Introduction
26-28	Revisions in V1 Chapter 7
26-29	Consolidated Data Requirements Tables
26-30	Consent Agenda for the 47th GCC
26-31	Lot-Release Analysis of Creep Test Results
26-32	Addition of AA2046 Plate
26-33	Review of AMS 5737
26-34	Additional Requirements for Material Specifications
26-35	Upgrade Properties of C355-T6 per AMS 4215
26-36	Update Naming of Effect of Exposure Curves for Clarity
26-37	Remove or Edit Section 1.4.4.1
26-38	Add a Reference to the Uniformity Requirements as a Footnote
26-39	Addition of Coordinate System Figure to 5.4.1 of Volume II
26-40	Update Width and Height Definitions
26-41	Definitions and Terminology for Fatigue
26-42	Update the Figures in 9.7.1.4
26-43	Static vs. Dynamic Modulus Identification for A-286, N-155, 718 Alloys

## 47th MMPDS Coordination Meeting

### New Item Numbers Assigned in 2026

26-44	Bayesian Approach for Fastener Analysis Method
26-45	Graphical Representation of Uniformity Equations
26-46	Update Footnote for Solution Treated and Aged Materials
26-47	Definition of Sponsor in A.3
26-48	Normal vs. 50% Censored Normal Guidance
26-49	New Structure for 9.2.4 Data Requirements Table
26-50	Effect of Temperature and Effect of Exposure Data Requirements
26-51	Update Section 8.1.2
26-52	Update GCC Bylaws
26-53	Update of Section 1.4.4 Stress-Strain Curves
26-54	Stabilization of AMS 4251 for 2090-T83 Sheet

## 47th MMPDS Coordination Meeting Final Minutes

### CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
23-36	GTG-F	FatWG	1	9	Ch. 8 A-Basis Static Allowables Requirement for Fastener Fatigue Figures	Agenda	Closed w no Action	C. Reakes presented this agenda item.
24-18	GTG		1, 2	0	Use of the Term "Allowable" for Fatigue and "Allowables" from Various Sources	Status	Closed w no Action	Discussions of fatigue allowables will continue in the Fatigue Working Group. See Item 25-02.
24-34	GTG		2	9	Consolidation of Stress-Strain Analysis Information	Agenda	Approved and Closed	C. Reakes presented this agenda item. Two typos were identified and will be corrected. NEW ITEM 26-37 - D. Tummins (Boeing) requested to discuss removing or editing section 1.4.4.1.
24-59	GTG-F	FTG	1	9	Lot-Release Confirmation Process for Solid Rivets	Agenda/ Handout	Approved w Changes and Closed	C. Reakes presented this agenda item. Changes will be in the minutes.
25-17	GTG-F	FTG	1	9	Lot-Release Confirmation Process for Blind Fasteners	Agenda/ Handout	Approved w Changes and Closed	C. Reakes presented this agenda item. Changes will be documented in the final minutes.
25-18	GTG		2	0	Clarification of "Width" and "Thickness" in DED Preforms	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Changes are captured in the PDF. Proposal #2 Approved with Changes and Closed. NEW ITEM 26-39 - Add a figure to the tables for the Norsk process. NEW ITEM 26-40 - Update width and height definitions.

## 47th MMPDS Coordination Meeting Final Minutes

### CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-24	GTG-F	FTG	1	9	Fastener Allowable Bearing Line Adjustment Procedure	Agenda	Approved w Changes and Closed	C. Reakes presented this agenda item. Changes will be documented in the final minutes.
25-25	GTG-F	FTG	1	8	Modification of Fastener Analysis Method to Use Robust Methods	Agenda	Approved w Changes and Closed	W. White presented this agenda item. Changed "dependent variable" to "regression residuals"
25-38	GTG		1	9	MMPDS Definition of Metal Matrix Alloys	Agenda	Closed w no Action	D. Hall presented this agenda item. CMH-17 and MMPDS will coordinate when an MMC question comes up. MMPDS and CMH-17 agree that 6061-RAM2 and 7050-RAM2 will be analyzed by MMPDS.
25-44	MTG		1	multi	Static vs. Dynamic Modulus Identification in Older Alloys	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Hastalloy X change approved. Inconel X-750 change approved. L-605 change approved. 188 change approved. A-286, N-155 and 718 not approved.  NEW ITEM 26-43 - for A-286 N-155, 718.
25-74	MTG		1	2	S/N Curves for Type 1 and Type 2 15-5PH Steel	Agenda	Approved and Closed	C. Reakes presented this agenda item.
25-75	GTG		1, 2	9	Indirect Method Sampling Guidance	Agenda	Approved w Changes and Closed	M. Snyder presented this agenda item.
25-76	GTG-F	FTG	1	9	Acceptance Margins for Fastener Analysis	Agenda	Closed w no Action	W. White presented this agenda item.

## 47th MMPDS Coordination Meeting Final Minutes

### CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-78	GTG	MTG	1, 2	9	Influence of Specimen Thickness to Specimen Width on Material Allowables	Status	Closed w no Action	D. Hall gave a status update.
25-79	MTG		1	5	Revisions to Section 5.4.1 of Volume I	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Editorial changes will be included in the final minutes. Heat Treatment definition in the agenda discussion section will replace the heat treatment text in the proposal.
25-80	ETTG		2	5	Revisions to Section 5.4.1 of Volume II	Agenda	Approved and Closed	D. Hall presented this agenda item.
26-03	MTG		1	2	Mechanical Properties for 304 Stainless Steel	Agenda	Approved and Closed	D. Hall presented this agenda item. Users should determine if they want a new spec for AMS5511 (Item 24-60 in 44th meeting).
26-04	GCC		1	7	Cu-15Ni-8Sn (ToughMet 3) Temper Change	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-05	GCC		1	0	Editorial Changes Made in MMPDS-2026	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item. These changes were made in MMPDS-2026.
26-06	GCC		1	3	Stabilization of AMS 4471 and AMS 4482 for 205/TiB2/3p	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-07	GCC		1	5	Stabilization of AMS 4917 for Ti-13V-11Cr-3Al	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-08	GCC		1	5	Stabilization of AMS 4920 Ti-6Al-4V Die Forgings	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-09	MTG		1	3	7075-T73X Bar, Rod and Shapes Grain Directions	Agenda	Closed w no Action	D. Hall presented this agenda item. J. Schuring (Kaiser) and K. Maciejewski (Arconic) will review the footnote.

## 47th MMPDS Coordination Meeting Final Minutes

### CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
26-10	GTG		1, 2	9	Shear Specimen Orientation Pairing	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Battelle investigated following the meeting and proposes the same changes for VII as shown in the minutes. No new item is needed.
26-11	GTG		1, 2	9	Expansion of Uniformity Section	Agenda	Approved and Closed	W. White presented this agenda item. NEW ITEM 26-45 created to include graphical representation of these equations from A. Elwell (Boeing).
26-14	GTG		1, 2	9	Legacy Alloy Review B/D-Basis Adjustment with A/C-Basis Adjustment	Agenda	Approved and Closed	M. Snyder presented this agenda item.
26-15	GCC		1	multi	Editorial Changes Proposed for MMPDS-2027	Consent Agenda	Approved w Changes and Closed	D. Hall presented this consent agenda item at the request of A. Elwell (Boeing). A new footnote will be added for F temper on T62 and T72.
26-16	GTG		2	9	Revision of V2 Table Format for Elongation and RA	Agenda	Approved and Closed	D. Hall presented this agenda item.
26-17	MTG		1	2	Mechanical Properties for AISI 321 Stainless Steel per AMS 5510	Agenda	Approved w Changes and Closed	G. Marrs presented this agenda item. The >2.000 data will be split into a new column in the final minutes. Elongation will be shown as 40% for >2.000 instead of footnote e.

## 47th MMPDS Coordination Meeting Final Minutes

### CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
26-18	MTG		1	2	Upgrade of Properties for 15-5PH per AMS 5862 H1025	Agenda	Approved w Changes and Closed	M. Snyder and D. Hall presented this agenda item. Add footnote "Material allowables were based upon data from samples of material, supplied in the solution treated condition, which were aged by suppliers to demonstrate response to heat treatment."  NEW ITEM 26-46 - to update footnote throughout the Handbook.
26-19	GTG		1	multi	Fracture Toughness Thickness Range	Agenda	Closed w no Action	D. Hall presented this agenda item.
26-20	GTG-F	FTG	1	9	Fastener Wet-Pin and Dry-Pin Clarifications	Handout	Closed w no Action	C. Reakes presented this handout.
26-21	FTG		1	8	Update Section 8.1.3, 8.1.4, and 8.1.5	Agenda	Approved and Closed	C. Reakes presented this agenda item. NEW ITEM 26-51 - Update Section 8.1.2
26-23	GTG		1, 2	9	Test Laboratory Certification	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Changes were captured in the PDF and will be documented in the Final Minutes.
26-26	GTG-F	FTG	1	9	9.7.1.4 Shear Equation Correction and Text Update	Agenda	Approved and Closed	C. Reakes presented this agenda item.
26-27	GCC		1	3	Editorial Revisions in Chapter 3 Introduction	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-28	MTG		1	7	Revisions in V1 Chapter 7	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Change to remove "very" from footnote for sheet product Table 7.2.1.0(c). Agreed to change electrical conductivity as recommended by Materion.

## 47th MMPDS Coordination Meeting Final Minutes

### CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
26-30	GCC		0	0	Consent Agenda for the 47th GCC	Consent Agenda	Approved w Changes and Closed	D. Hall presented this consent agenda item.

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## 47th MMPDS Coordination Meeting Final Minutes

***SORTED BY ITEM NUMBER***

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
04-21	FTG		1	8	Fastener Tables of Sunset Review Interest	On Hold	Not Covered	This item is on hold.
08-23	FTG		1	8	Sunset Review of Table 8.1.3.2.2(c), NAS1921C	On Hold	Not Covered	This item is on hold.
09-13	FTG		1	8	Sunset Review of Table 8.1.3.2.3(a), MS21140	On Hold	Not Covered	This item is on hold.
11-05	MTG		1	1	AMS Coordination - Volume I	Status	Continue	G. Marrs gave a status update.
11-38	FTG		1	8	Sunset Review of Flush Head, Mechanical Lock Spindle Blind Rivet Table 8.1.3.2.2(e) NAS 1921 M	On Hold	Not Covered	This item is on hold.
12-89	MTG	PSG	1, 2		Target Materials for Propulsion Applications	Status	Continue	D. Hall gave a status update. G. Marrs is working through the detailed target materials list to find the raw data. A copy of the current list will be included in the Final Minutes.
13-34	MTG		1	5	Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	Agenda	Continue	C. Reakes presented this agenda item. An error was noted in Table 7 TUS(LT) values. See minutes. There is continued interest in publishing under Option 2. When Option 2 is approved, C. Reakes will work with J. Mantione (ATI) to fill the gaps.
13-50	MTG	ETTG	1, 2	9	ASTM Coordination	Status	Continue	D. Hall gave a status update. M. James (WMTR) mentioned that there is an ongoing round robin for Klc. Other round robins captured in chat and will be included in preliminary minutes.
14-28	FTG		1	8	Sunset Review of Table 8.1.4.2(i), LGPL2SC-V Pin, 3SLC-C Collar in Clad 7075-T6	On Hold	Not Covered	This item is on hold.
15-13	MTG	ASG	1	multi	Clarification of Shear Orientation for Legacy Alloys	Agenda/ Handout	Continue	G. Marrs presented this agenda item. All items with the exceptions of #21, 25, 29, and 37 were approved. Some included minor changes which will be documented in the Final Minutes.
15-38	GTG	PSG	1	9	Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature	Handout	Continue	W. White presented this handout item. More details are included in the Final Minutes

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	Final	Initial						
16-12	FTG		1	8	Identifying Basis of Fastener Shear Strength on Remaining Tables	Handout	Continue	C. Reakes presented this handout. Howmet is collecting data on NAS1921M Rivets.
16-13	FTG		1	8	Corrections to Table 8.1.3.2.2(c) NAS 1921C	On Hold	Not Covered	This item is on hold.
16-23	GTG	PSG	1	9	Re-evaluate Guidelines for Effect of Temperature Curves	Handout	Continue	W. White presented this handout item. More details are included in the Final Minutes
17-45	MTG		1	3	Effect of Temperature Curves for 2395-T84 Extrusion	On Hold	Not Covered	This item is on hold.
17-52	GTG	FatWg	1	9	Review Section 9.6.1 - Load and Strain Control Fatigue	Handout	Not Covered	This item was not covered. C. Sheffels (Honda Aircraft) has prepared a draft for review. A copy was included in the Handout.
17-61	GTG	FatWg	1	9	Revising R-curve Requirement in Table 9.2.4	On Hold	Not Covered	This item is on hold.
17-62	GTG	FatWg	1	9	Revising Fatigue Requirement in Table 9.2.4	Status	Not Covered	This item was not covered. There has been no additional effort since the 46th meeting.
17-63	GTG	FatWg	1	9	Use of Box-Cox Transformation in the Fitting of Fatigue Data	Status	Not Covered	This item was not covered. There has been no additional effort since the 46th meeting.
19-19	GTG	FatWg	1	9	Consideration of a new Equivalent Stress model for Load-Controlled Fatigue	Status	Not Covered	This item was not covered. There has been no additional effort since the 46th meeting.
19-25	GTG	ASG	1	9	Guidelines for Derived Properties for Legacy Alloys	On Hold	Not Covered	This item is on hold.
19-38	ETTG		2		Process Intensive Materials & Technologies SDO Coordination	Status	Continue	D. Hall gave a status update.
20-13	ETTG		2		CMH-17/MMPDS Coordination & Collaboration	Status	Continue	D. Hall gave a status update. T. Vohsen (NIAR) is the current CMH-17 Program Manager. She attended the 47th GCC. The two programs continue to keep each other informed on their activities.
20-16	ETTG	MTG	2		MMPDS & Additive Metals - Program Plan	Handout	Continue	D. Hall presented this handout item. M. Gorelik (FAA) asked everyone to encourage organizations generating data to contact Battelle. The Friction Stir AM group met for 1 hour during the Fastener Task Group. Contact Battelle if you are interested in participating.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
20-35	MTG		1	multi	Alloys Requested for Analysis	Status	Continue	D. Hall gave a status update. The current list will be included in the Final Minutes.
20-36	MTG		1	multi	Request for Secondary Property Data	Status	Continue	D. Hall gave a status update. The current list will be included in the Final Minutes.
21-02	GTG	ETTG	1, 2	9	Chapter 9 Reorganization – Volume I & II	Agenda	Continue	D. Hall presented this agenda item. The GTG would like to continue with Option 2 in the item.
21-18	ETTG		2		Updates from V2WG Sub-teams	Status	Continue	Co-chairs gave a status update. L. Riddle (General Atomics) is the new Industry Co-Chair for Certification and Qualification.
21-42	MTG	PSG	1	6	Update for Haynes 230 Strength vs. Temperature curves	Handout	Continue	W. White presented this handout item. More details are included in the Final Minutes
22-03	FTG	ASG	1	8	Fasteners Requested for Analysis	Status	Continue	C. Reakes gave a status update.
22-15	FTG		1	8	Test Plan for Fastener MS20426AD in 2024-T42	On Hold	Not Covered	This item is on hold.
22-33	GTG	ETTG	2	9	Microstructure Information Accessibility for MMPDS, V2	Status	Continue	This item was not covered due to time constraints. This is primarily a Battelle logistics issue for distributing microstructure information approved for inclusion in the Handbook. This item reports on what Battelle is planning to do. No modification to the content will be proposed that requires GCC approval. Battelle is working out details for how that information will be provided with the eBook option. Database licensees will be able to share the images provided to Battelle.
23-04	GTG	ETTG	2	10	V2, 10.3 Overview of Qualification	Status	Continue	A. Yohannes gave a status update. L. Riddle (General Atomics) is the new Industry Co-Chair.
23-11	GTG	ETTG	2	10	Section 10.5 Consensus Standards	Status	Continue	A. Yohannes gave a status update. L. Riddle (General Atomics) is the new Industry Co-Chair.
23-19	GTG-F	ETTG, FTG	2	9	Review of 9.7 for Volume II	Handout	Continue	C. Reakes presented this handout item.
23-20	GTG	ETTG	2	9	Section 9.8 & 9.9 for Volume II	Status	Not Covered	This item was not covered due to time constraints.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
23-22	ETTG		2	3	6061-RAM2 per AMS 7058	Handout	Continue	G. Marrs and A. Saville (Elementum3D) presented this handout. Preliminary data analysis results are summarized in the Final Minutes.
23-33	GTG	FatWg	1, 2	9	FCGR Variable Load Analysis Methods	Handout	Continue	This item was not covered due to time constraints. Two equations covering Regions I-III have been added to the beta software tool.
23-36	GTG-F	FatWG	1	9	Ch. 8 A-Basis Static Allowables Requirement for Fastener Fatigue Figures	Agenda	Closed w no Action	C. Reakes presented this agenda item.
23-43	MTG		1	3	Correction to 7349-T76511 Extrusion Mechanical Properties	Status	Continue	D. Hall gave a status update. Waiting on data from Constellium.
23-59	GTG	ETTG	1, 2	9	Scenarios for Upgrading from S-Basis to C/D-Basis	Handout	Continue	D. Hall presented this handout item.
23-61	ETTG		2		V2WG Coordination & Direction	Status	Not Covered	This item was not covered due to time constraints.
24-03	GTG		1, 2	9	Equations for Normal Distribution k-factors	On Hold	Not Covered	This item is on hold.
24-04	ETTG		2	5	Ti-6Al-4V JMADD Test Plan	Status	Continue	N. Tay (NIAR) gave a status update. Slides will be included in the Final Minutes
24-05	ETTG		2	5	Ti-6Al 4V per AMS 7081 - GAMAT Test Plan	Status	Continue	D. Hall gave a status update. The title of this item was updated from Ti6Al 4V GAMAT Test Plan to include the recently assigned AMS 7081 spec number. A follow-on America Makes project will generate tensile data to establish specification minimums per SAE AMS standards. Additional bearing data will be generated. One of the feedstock heats used violated the doping restrictions in AMS 7003. Additional heat(s) will be used to build new specimens. Boeing is waiting for AFRL approval to release the raw data to Battelle for analysis.
24-06	GTG		1, 2	9	Update to Section 9.3 Data Submission Guidelines	Status	Continue	This item was not covered due to time constraints.

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	Final	Initial						
24-16	GTG	ETTG	2	9	Section 9.2.3.5 for Volume II	Status	Continue	This item was not covered due to time constraints.
24-18	GTG		1, 2		Use of the Term "Allowable" for Fatigue and "Allowables" from Various Sources	Status	Closed w no Action	Discussions of fatigue allowables will continue in the Fatigue Working Group. See Item 25-02.
24-25	GTG	FSWG	2	8, 9	Friction Stir Processes	Handout	Continue	J. Beckman (Gulfstream) presented this handout item. A summary will be included in the preliminary minutes. Battelle will send out a SurveyMonkey request to join the FSWG.
24-32	ETTG		2		AMS Coordination - Volume II	Status	Continue	D. Hall gave a status update. C. Reakes and D. Hall will attend the next SAE AMS AM meeting. The committee has ~20 material specifications being drafted or revised. Data will be analyzed by Battelle to generate lot-release mechanical property values for new specifications.
24-34	GTG		2	9	Consolidation of Stress-Strain Analysis Information	Agenda	Approved and Closed	C. Reakes presented this agenda item. Two typos were identified and will be corrected.  NEW ITEM 26-37 - D. Tummins (Boeing) requested to discuss removing or editing section 1.4.4.1.
24-38	GTG		1	9	Bearing Edgewise Requirements	On Hold	Not Covered	This item is on hold.
24-40	ETTG		2	5	Ti 6-4 AM Test Plan per xxx	Status	Continue	D. Hall gave a status update. The Materials & Machines sub-team will assist Korea Aerospace to ensure that specification requirements are being met.
24-59	GTG-F	FTG	1	9	Lot-Release Confirmation Process for Solid Rivets	Agenda/ Handout	Approved w Changes and Closed	C. Reakes presented this agenda item. Changes will be in the minutes.
24-72	ETTG		2	2	15-5PH AM Test Plan per AMS 7073	Handout	Continue	N. Ramaswamy (Parker) gave a presentation. Slides will be included in the Final Minutes.

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	Final	Initial						
24-78	GTG		1	9	Test Matrix	Agenda	Continue	<p>D. Hall presented this agenda item. Changes are captured in the PDF. The table order will be changed to match the property order in Table 9.2.4.</p> <p>This item was re-opened by Battelle. Several minor changes were identified while preparing the Final Minutes. A proposal including those changes will be prepared for the Fall GCC meeting.</p> <p>NEW ITEM 26-47 - to add definition of sponsor in A.3. Battelle will try to organize text so that it shows up on the same page as the applicable table.</p> <p>NEW ITEM 26-38 - add a reference to the uniformity requirements as a footnote or within the section text.</p>
24-82	GTG		1, 2	1	Investigation on Ultimate and Yield Stresses in Shear Equation 1.4.6.2	Status	Continue	This item was not covered due to time constraints.
24-84	GTG	PSG	1, 2	9	Table Format Options for Engine vs Airframe Alloys	Status	Continue	This item was not covered due to time constraints. See Item 26-29.

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	Final	Initial						
24-87	GTG	PSG	1, 2	9	Data Requirement Table for PSG Alloys	Agenda	Continue	<p>D. Hall presented this agenda item at the PSG. Changes are captured in the PDF. Effect of Temperature curves will be updated to TBD.</p> <p>This item was approved with changes and closed. The approved changes will be shown in the Final Minutes. Several references to tables included in this text to tables will be updated editorial pending approval of item 26-29 which proposes changes to the format and presentation of Table 9.2.4.</p> <p>NEW ITEM 26-36 - Relabeling Effect of Temperature and Effect of Exposure properties NEW ITEM 26-50 - Mandatory/Recommended Data requirements for Effect of Temperature Curves.</p>
24-88	ETT		2	5	Test Plan for Ti-6-4 per AMS7009	Status	Continue	L. Hill (GKN) gave a presentation. Slides will be included in the Final Minutes
24-91	ETT		2	6	Test Plan for AM ABD900 Ni-based superalloy	Status	Continue	<p>D. Hall gave a status update.</p> <p>EPRI is awaiting approval from AFRL to release data to Battelle.</p>
24-93	GTG		1	multi	Updating Shear and Bearing Grain Directions to Test Orientations	Agenda	Continue	G. Marrs presented this agenda item. D. Tummins (Boeing) will investigate further and provide guidance to Battelle for the Fall agenda item.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
24-95	GTG		1, 2	9	Discuss NASGRO/MMPDS collaboration	Status	Continue	<p>D. Hall gave a status update. Battelle has had several telecoms with Southwest Research Institute and NASA to determine how and when the two programs can and should work together. Battelle will not use the NASGRO equation to fit data or publish parameters. SwRI will provide appropriate information when data shared with them meets their program's requirements. Data for two alloys was shared with SwRI but those data sets did not meet all requirements for fitting to the NASGRO equation. Future MMPDS data generation requirements will be modified documenting what is necessary for SwRI to fit data in the Handbook with the NASGRO equation.</p>

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-02	GTG	FatWG	1, 2	9	Required Issues to Resolve to Define Fatigue Allowable	Handout	Continue	<p>D. Hall presented this handout item. Some additional terminology may be required as part of this item. Better methods of creating typical curves are needed including data generation and analysis guidelines. Current test standards may not be specific enough about specimen preparation. Battelle requested the GCC to consider what do they currently require their suppliers to provide to accept the fatigue properties used to design those parts. Influence factors to transform material allowables into design values will continue to be the users responsibility. Additional reminders and/or guidance in the Handbook may be warranted.</p> <p>NEW ITEM 26-41 - Definitions and Terminology for Fatigue</p> <p>Gerhard Oertelt (Material Squared) gave a presentation on Material Squared software. Battelle will provide contact information.</p>
25-09	GTG	ETTG	2	1	V2 Specimen Orientations for Fatigue Crack Growth	Handout	Continue	C. Reakes presented this handout item. An agenda with a proposal will be drafted for the 48th Meeting.
25-10		ETTG	2	3	Test Plan for AA7050 RAM2 per AMS7070/7071	Handout	Continue	A. Saville (Elementum3D) gave a presentation. Slides will be included in the Final Minutes
25-17	GTG-F	FTG	1	9	Lot-Release Confirmation Process for Blind Fasteners	Agenda/ Handout	Approved w Changes and Closed	C. Reakes presented this agenda item. Changes will be documented in the final minutes.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-18	GTG		2		Clarification of "Width" and "Thickness" in DED Preforms	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Changes are captured in the PDF. Proposal #2 Approved with Changes and Closed. NEW ITEM 26-39 - Add a figure to the tables for the Norsk process. NEW ITEM 26-40 - Update width and height definitions.
25-19	GTG		1, 2	1, 9	Modulus of Rupture Curves in MMPDS	Status	Not Covered	This item was not covered due to time constraints. The Handbook includes many MOR curves, all generated in the 1960s by The Bendix Corporation and Lockheed. The documentation at Battelle may not be sufficient to document how those curves were computed.
25-24	GTG-F	FTG	1	9	Fastener Allowable Bearing Line Adjustment Procedure	Agenda	Approved w Changes and Closed	C. Reakes presented this agenda item. Changes will be documented in the final minutes.
25-25	GTG-F	FTG	1	8	Modification of Fastener Analysis Method to Use Robust Methods	Agenda	Approved w Changes and Closed	W. White presented this agenda item. Changed "dependent variable" to "regression residuals"
25-28	GTG-F	FTG	1	8	Moving Fastener Data Requirements and Examples to Section 9.7 or Ch. 8	Handout	Continue	C. Reakes presented this handout. An agenda with a proposal will be drafted for the 48th Meeting to move examples from Section 9.9.5 and 9.9.6 to new Sections 9.7.1.6 and 9.7.2.3.
25-29	GTG	MATSSG	1, 2		Examples of Specimen Location in Test Plan Layouts	Agenda	Continue	M. Snyder presented this agenda item. Suggested changes to the figures were captured in the pdf. Changes are needed for V2 figures. Contact Battelle if you have example layouts that can be shared.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-32	GTG		1, 2		Investigate Use of Total Strain at Failure in V1 and V2	Handout	Continue	C. Reakes presented this handout item. An agenda with a proposal will be drafted for the 48th Meeting to remove total strain at failure from the handbook.
25-33	GTG		2		Requirements to Include D-Basis without C-Basis for V2	Status	Not Covered	This item was not covered due to time constraints. The GSG will review this topic and notify Battelle whether this item should be closed.
25-34	GTG	ETTG	2	9	Guidelines for a Secondary Supplier Upgrading Basis of V2 Tables	Status	Not Covered	This item was not covered due to time constraints.
25-36	GTG	ETTG	2		Definition of Preform in V2	Handout	Continue	C. Reakes presented this handout item. An agenda with a proposal will be prepared for the 48th Meeting.
25-37	GTG	ETTG	2	9	Investigate Relationship of Unique Chemistry in Relation to Powder Heats	Status	Not Covered	This item was not covered due to time constraints. Battelle does not always receive chemistry information with the data provided, even though chemistry is a mandatory lot-release test for specifications admissible to MMPDS.
25-38	GTG		1	9	MMPDS Definition of Metal Matrix Alloys	Agenda	Closed w no Action	D. Hall presented this agenda item. CMH-17 and MMPDS will coordinate when an MMC question comes up. MMPDS and CMH-17 agree that 6061-RAM2 and 7050-RAM2 will be analyzed by MMPDS.
25-39	GTG		1, 2		Recommended Best Practice Test Conditions for E111	Handout	Not Covered	This item was not covered due to time constraints. C. Reakes will work with K. Maciejewski (Arconic) and D. Tummins (Boeing) on E111 updates.
25-44	MTG		1	multi	Static vs. Dynamic Modulus Identification in Older Alloys	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Hastalloy X change approved. Inconel X-750 change approved. L-605 change approved. 188 change approved. A-286, N-155 and 718 not approved.  NEW ITEM 26-43 - for A-286 N-155, 718.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-46	GTG	PSG	1, 2	9	Update Creep Data Requirements to Vary Stress	Handout	Continue	C. Reakes presented this handout item in the PSG. An agenda with a proposal will be drafted for the fall.
25-49	GTG	ETTG	1, 2	9	Requirements for S-Basis for Fracture Toughness	Agenda	Continue	D. Hall presented this agenda item. Because customers and regulators specify that typical fracture toughness be used in design, this is considered unnecessary for publishing fracture toughness as an S-Basis in the Handbook. The primary issue is how data will be analyzed to generate a specification lot-release minimum. For the time being, Battelle will analyze the data using the existing methods for computing T99 for the dataset submitted when supporting such a specification.
25-53	MTG		1	6	Clarification of 718 Bar Tables	Agenda	Continue	D. Hall presented this agenda item. Battelle will update this item to include columns for the product forms and one for just the spec. Battelle should inform AMS of this change.
25-58	GTG	ETTG	2	9	Radiographic Acceptance Criteria in Additively Manufactured Material Specifications	Status	Continue	A. Yohannes (FAA) gave a status update. The FAA continues to coordinate internally.
25-61	MTG		1	2	PH13-8Mo per AMS 5629/H1100	Status	Continue	D. Hall gave a status update. KPC continues to collect data.
25-62	MTG		1	3	New Alloy - AA2050-T62	Status	Continue	M. Niedzinski (Constellium) gave a status update. Slides will be included in the Final Minutes
25-63	ETTG		2	3	Test Plan for AMS 7030	Handout	Continue	M. Casey (Parker) gave a status update. Slides will be included in the Final Minutes
25-64	ETTG		2	6	Test Plan for Haynes 230 MMC with Carbon Nanotubes	On Hold	Not Covered	This item is on hold.
25-66	MTG		1	3	Fcy Changes for 7075-T76511 Aluminum Alloy Extrusions	Status	Continue	M. Snyder gave a status update. Additional data are expected prior to the fall meeting. An agenda with a proposal will be prepared for the 48th Meeting.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-67	ETT		2	5	Mechanical Properties of AMS 7004 with Substrate Material and/or Heat Affected Zone	Status	Continue	M. Stepanova gave a presentation. Slides are included in the Final Minutes.
25-68	GTG	ETT	2	9	Tabulated Statistical Information for Elastic and Physical Properties in Volume II	Handout	Continue	W. White presented this handout item. An agenda item with a proposal will be created for the 48th Meeting.
25-69	GTG	MTG	1	9	Guidelines for Micrographs within MMPDS, Volume I	Handout	Continue	C. Reakes presented this handout item. For V1 it needs to be very clear that this is not a requirement.
25-70	GTG	ETT	2	9	Guidelines for Micrographs within MMPDS, Volume II	Handout	Continue	C. Reakes presented this handout item.
25-71	GTG	ETT	2	9	Investigate Statistical Acceptance Test Methods	Handout	Continue	W. White presented this handout item. The Statistics Working Group will continue to discuss this item in telecons.
25-72	GTG	FTG	1	9	Review and Update Section 9.9.5 Mechanically Fastened Joints	Status	Continue	C. Reakes gave a status update. ExFastener tool will be updated with changes from updated fastener analysis method (Item 25-25). Example section will be updated once tool is finished.
25-73	GTG		1, 2		Engineering Judgment Utilization	Handout	Continue	D. Hall presented this handout item.
25-74	MTG		1	2	S/N Curves for Type 1 and Type 2 15-5PH Steel	Agenda	Approved and Closed	C. Reakes presented this agenda item.
25-75	GTG		1, 2	9	Indirect Method Sampling Guidance	Agenda	Approved w Changes and Closed	M. Snyder presented this agenda item.
25-76	GTG-F	FTG	1	9	Acceptance Margins for Fastener Analysis	Agenda	Closed w no Action	W. White presented this agenda item.
25-77	GTG		1, 2	9	Consequences of Spearman's Rank Correlation Threshold Violations	Handout	Continue	M. Snyder presented this handout item. Use of the indirect method will continue to be monitored.
25-78	GTG	MTG	1, 2	9	Influence of Specimen Thickness to Specimen Width on Material Allowables	Status	Closed w no Action	D. Hall gave a status update.

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	Final	Initial						
25-79	MTG		1	5	Revisions to Section 5.4.1 of Volume I	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Editorial changes will be included in the final minutes. Heat Treatment definition in the agenda discussion section will replace the heat treatment text in the proposal.
25-80	ETTG		2	5	Revisions to Section 5.4.1 of Volume II	Agenda	Approved and Closed	D. Hall presented this agenda item.
25-81	GTG	FATWG	1, 2	9	Required Issues to Resolve to Define FCGR Allowables	Handout	Continue	D. Hall presented this handout item.
25-82	GTG	FatWG	1, 2	9	Required Issues to Resolve to Define Fracture Toughness Allowables	Handout	Continue	D. Hall presented this handout item.
25-83	GTG-F	FTG	1, 2		Investigate uses of Bayesian Statistics	Handout	Continue	W. White presented this handout item. NEW ITEM 26-44 - draft text for Bayesian approach for fastener analysis method.
25-84	GTG	ETTG	2	2	V2 Alloy Introduction - Section 2.1	Handout	Continue	D. Hall presented this handout item. This section will be required to publish material allowables for steel alloys in MMPDS, Volume II. At least one alloy may be approved in 2027. Please review and provide comments to Battelle so that the section can be modified as needed. Battelle will provide the section in Word format to those interested in reviewing and providing feedback.
25-85	GTG	ETTG	2	3	V2 Alloy Introduction - Section 3.1	Handout	Continue	D. Hall presented this handout item. This section will be required to publish material allowables for aluminum alloys in MMPDS, Volume II. One aluminum alloy may be approved in 2026. Please review and provide comments to Battelle so an Agenda Item with a proposal can be reviewed and approved at the Fall 2026 MMPDS meeting. Battelle will provide the section in Word format to those interested in reviewing and providing feedback.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-86	GTG				Machine Requirement for Volume II	Status	Continue	M&M team gave a status update.
26-01	GTG	ETTG	2	6	V2 Alloy Introduction - Section 6.1	Handout	Continue	D. Hall presented this handout item. This section will be required to publish material allowables for heat resistant alloys in MMPDS, Volume II. At least one alloy may be approved in 2027. Please review and provide comments to Battelle so that the section can be modified as needed. Battelle will provide the section in Word format to those interested in reviewing and providing feedback.
26-02	GTG	ETTG	2	7	V2 Alloy Introduction - Section 7.1	Status	Continue	D. Hall gave a status update.
26-03	MTG		1	2	Mechanical Properties for 304 Stainless Steel	Agenda	Approved and Closed	D. Hall presented this agenda item. Users should determine if they want a new spec for AMS5511 (Item 24-60 in 44th meeting).
26-04	GCC		1	7	Cu-15Ni-8Sn (ToughMet 3) Temper Change	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-05	GCC		1		Editorial Changes Made in MMPDS-2026	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item. These changes were made in MMPDS-2026.
26-06	GCC		1	3	Stabilization of AMS 4471 and AMS 4482 for 205/TiB2/3p	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-07	GCC		1	5	Stabilization of AMS 4917 for Ti-13V-11Cr-3Al	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-08	GCC		1	5	Stabilization of AMS 4920 Ti-6Al-4V Die Forgings	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-09	MTG		1	3	7075-T73X Bar, Rod and Shapes Grain Directions	Agenda	Closed w no Action	D. Hall presented this agenda item. J. Schuring (Kaiser) and K. Maciejewski (Arconic) will review the footnote.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
26-10	GTG		1, 2	9	Shear Specimen Orientation Pairing	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Battelle investigated following the meeting and proposes the same changes for VII as shown in the minutes. No new item is needed.
26-11	GTG		1, 2	9	Expansion of Uniformity Section	Agenda	Approved and Closed	W. White presented this agenda item.  NEW ITEM 26-45 created to include graphical representation of these equations from A. Elwell (Boeing).
26-12	ETT	GTG	2	5	NASGRO Analysis of AMS 7004 FCGR data	Status	Not Covered	This item was not covered due to time constraints. The data was submitted to SWRI and does not meet their requirements.
26-13	MTG		1	3	S/N Fatigue Data for 7050 per AMS 4050	Status	Continue	C. Reakes gave a status update. The data includes many runout tests at higher stresses. The GCC agreed that the current least squares approach to data analysis would produce an unconservative result. The data will be reanalyzed with maximum likelihood methods and reviewed at a future GCC meeting.
26-14	GTG		1, 2	9	Legacy Alloy Review B/D-Basis Adjustment with A/C-Basis Adjustment	Agenda	Approved and Closed	M. Snyder presented this agenda item.
26-15	GCC		1	multi	Editorial Changes Proposed for MMPDS-2027	Consent Agenda	Approved w Changes and Closed	D. Hall presented this concert agenda item at the request of A. Elwell (Boeing). A new footnote will be added for F temper on T62 and T72.
26-16	GTG		2	9	Revision of V2 Table Format for Elongation and RA	Agenda	Approved and Closed	D. Hall presented this agenda item.

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	Final	Initial						
26-17	MTG		1	2	Mechanical Properties for AISI 321 Stainless Steel per AMS 5510	Agenda	Approved w Changes and Closed	G. Marrs presented this agenda item. The >2.000 data will be split into a new column in the final minutes. Elongation will be shown as 40% for >2.000 instead of footnote e.
26-18	MTG		1	2	Upgrade of Properties for 15-5PH per AMS 5862 H1025	Agenda	Approved w Changes and Closed	M. Snyder and D. Hall presented this agenda item. Add footnote "Material allowables were based upon data from samples of material, supplied in the solution treated condition, which were aged by suppliers to demonstrate response to heat treatment."  NEW ITEM 26-46 - to update footnote throughout the Handbook.
26-19	GTG		1	multi	Fracture Toughness Thickness Range	Agenda	Closed w no Action	D. Hall presented this agenda item.
26-20	GTG-F	FTG	1	9	Fastener Wet-Pin and Dry-Pin Clarifications	Handout	Closed w no Action	C. Reakes presented this handout.
26-21	FTG		1	8	Update Section 8.1.3, 8.1.4, and 8.1.5	Agenda	Approved and Closed	C. Reakes presented this agenda item. NEW ITEM 26-51 - Update Section 8.1.2
26-22	GTG				Data Generation Requirement for Effect of Temperature	Handout	Not Covered	This item was not covered due to time constraints.
26-23	GTG		1, 2	9	Test Laboratory Certification	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Changes were captured in the PDF and will be documented in the Final Minutes.
26-24	GTG	ETTG	2	9	Review & Revise Section 9.2.2, Volume II	Handout	Continue	M. Crill (Barnes Global Advisors) gave a status update. Send comments on 9.2.2 in V2 to M. Crill or S. Cordner (NASA).
26-25	FTG		1	8	Chapter 8 Table Specification Review	Handout	Continue	C. Reakes presented this handout.
26-26	GTG-F	FTG	1	9	9.7.1.4 Shear Equation Correction and Text Update	Agenda	Approved and Closed	C. Reakes presented this agenda item.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
26-27	GCC		1	3	Editorial Revisions in Chapter 3 Introduction	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-28	MTG		1	7	Revisions in V1 Chapter 7	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Change to remove "very" from footnote for sheet product Table 7.2.1.0(c). Agreed to change electrical conductivity as recommended by Materion.
26-29	GTG		1, 2	9	Consolidated Data Requirements Tables	Handout	Not Covered	This item was not covered due to time constraints.
26-30	GCC				Consent Agenda for the 47th GCC	Consent Agenda	Approved w Changes and Closed	D. Hall presented this consent agenda item.
26-31	GTG		1, 2	9	Lot-Release Analysis of Creep Test Results	Handout	Not Covered	This item was not covered due to time constraints.
26-32	MTG		1	3	Addition of AA2046 Plate	Status	Continue	M. Niedzinski (Constellium) gave a presentation. Battelle received data for analysis to be submitted with new specification ballot.
26-33	MTG		1	6	Review of AMS 5737	Status	Continue	G. Marrs gave a status update. Battelle determined there may be enough data available for AMS 5737 (A286) for addition under option 2. Available historic data are being reviewed for possible analysis and introduction to MMPDS with option 2.
26-34	GTG	ETTG	2	9	Additional Requirements for Material Specifications	Handout	Continue	T. LeBrun (TBGA) gave a status update.
26-35	MTG		1	3	Upgrade Properties of C355-T6 per AMS 4215	Status	Continue	D. Hall gave a status update.
26-36	GTG		1, 2	9	Update Naming of Effect of Exposure Curves for Clarity		New	This item was created during discussion of Item 24-87
26-37	GTG		1, 2	1	Remove or Edit Section 1.4.4.1		New	This item was created during discussion of Item 24-34

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	Final	Initial						
26-38	GTG		1, 2	9	Add a Reference to the Uniformity Requirements as a Footnote		New	This item was created during discussion of Item 24-78
26-39	GTG	ETTG	2	5, 9	Addition of Coordinate System Figure to 5.4.1 of Volume II		New	This item was created during discussion of Item 25-18
26-40	GTG		2	9	Update Width and Height Definitions		New	This item was created during discussion of Item 25-18
26-41	GTG	FatWG	1, 2	9	Definitions and Terminology for Fatigue		New	This item was created during discussion of Item 25-02
26-42	GTG	FTG	1	9	Update the Figures in 9.7.1.4		New	This item was created during discussion of Item 25-25
26-43	MTG		1	6	Static vs. Dynamic Modulus Identification for A-286, N-155, 718 Alloys		New	This item was created during discussion of Item 25-44
26-44	GTG		1	9	Bayesian Approach for Fastener Analysis Method		New	This item was created during discussion of Item 25-83
26-45	GTG		1, 2	9	Graphical Representation of Uniformity Equations		New	This item was created during discussion of Item 26-11
26-46	MTG		1	2	Update Footnote for Solution Treated and Aged Materials		New	This item was created during discussion of Item 26-18
26-47	GTG		1, 2	A	Definition of Sponsor in A.3		New	This item was created during discussion of Item 24-78
26-48	GTG		1, 2	9	Normal vs. 50% Censored Normal Guidance		New	This item was created to address a user question. Can the user choose between these two options for smaller sample sizes?
26-49	GTG		1, 2	9	New Structure for 9.2.4 Data Requirements Table		New	47TH MEETING
26-50	GTG		1, 2	9	Effect of Temperature and Effect of Exposure Data Requirements		New	This item was created during discussion of Item 24-87
26-51	FTG		1	8	Update Section 8.1.2		New	This item was created during discussion of Item 26-21. This updates text in this section.
26-52	GTG		1, 2		Update GCC Bylaws		New	The GCC requested that definitions for "Entry" and "Sponsor" be added to the Appendix. The GSG and ISG requested that the minimum requirements to declare a meeting to be "Official" be codified.

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26-53	GTG		1. 2	1	Update of Section 1.4.4 Stress-Strain Curves		New	D. Tummons, Boeing, proposes updates to this section. It will include sections added to 1.4.4 in Item 24-34 approved at the 47th meeting.
26-54	MTG		1	3	Stabilization of AMS 4251 for 2090-T83 Sheet		New	AMS 4251 was stabilized May 2026, a consent agenda item will be presented in the fall.