Minutes of the 48th MMPDS Coordination Meeting

Held in:

Burlington, VT
September 14-17, 2026

Compiled by:

Battelle
505 King Avenue
Columbus, OH 43201-2693

Prepared for:

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48th MMPDS Coordination Meeting

Introduction of Attendees

A list of 48th Coordination Meeting attendees, indicating the meetings they attended, has been incorporated into this document.

Approval of the 48th MMPDS Meeting Minutes

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 December 16, 2026.

Attendees have until January 15, 2027, to notify Battelle of technical objections to those items. If no comments are received, the items will be closed.

48th MMPDS Coordination Meeting

Chairman's Remarks - Jim Kabbara

Thanks to everyone who participated in the 48th MMPDS General Coordination Committee meeting held in Burlington, VT between September 14 and September 17. The Battelle team did, as always, an excellent job of preparing the Agenda, Handout, and meeting arrangements to keep the program moving forward. The meeting was well attended with 132 individuals, 75 in-person and 57 remote, throughout the week. These subject matter experts represented 51 different government and industry organizations.

These Final Minutes are being sent to registered attendees and are available to Industry and Government Steering Group organizations through the member SharePoint site. As described in the Foreword to MMPDS, the standard review period for Final Minutes is 30 days after posting. Five items are designated for 60-day reviews. If no negative technical comments are received by December 16, 2026 (regular items) or January 15, 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 49th MMPDS GCC meeting. Please advise Battelle as soon as possible if you have a technical comment.

The GCC closed 46 Agenda Items to make improvements and additions to MMPDS-2027. Item 26-26: Consolidated Data Requirements Tables created a common table to be included in both volumes of MMPDS. This new table allows users to see every requirement for both at the same time. The GCC also approved Option 2, which targets materials intended for elevated or cryogenic applications.

The 49th MMPDS is scheduled to take place in Wichita, KS from March 15 through March 19. We look forward to seeing you there.

Thanks again for attending the 48th 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

48th MMPDS Meeting Attendance			September 13	September 14								September 15			September 16		September 17	
Last Name	First Name	Company Name	Orientation	ISG (Members Only)	GSG (Invitation Only)	ISG/GSG	MATSSG	FTG	Friction Stir Welding	ASG	Executive Board	GTG	FatWG	PSG	ETTG	Norsk Titanium Tour	MTG	GCC
Ananthasayanam	Balajee	Honda Aero Inc.																
Anthony	Benjamin	Northrop Grumman	x	x		x	x		x	x		x	x	x	x		x	x
Antonysamy	Alphons Anandaraj	GKN Aerospace	x	x		x	x		x	x	x	x	x	x	x	x	x	x
Bach	Andreas	Novelis		x		x	x					x	x		x		x	x
Baker	Andrew	Spirit AeroSystems		x		x		x	x			x	x		x	x	x	x
Baksa	Chris	Sierra Nevada Corp.		x		x	x			x			x	x	x	x	x	
Balasescu	Stefan	Parker Lord																
Beckman	Jonathan	Gulfstream Aerospace		x		x	x		x	x		x			x		x	
Bennett	Jay	NASA																
Bennett	Russell	The Boeing Company										x					x	
Benson	Callie	RTX						x				x	x	x	x		x	x
Bittner	Peter	Constellium		x		x	x		x	x	x	x			x		x	x
Bodensteiner	Jarod	Textron Aviation (Cessna)		x		x		x	x	x		x			x		x	x
Bruns	Edward	US Navy				x	x		x									
Bryant	Nathan	University of Dayton - UDRI		x		x	x			x		x	x	x	x	x	x	
Buchwald	Scott	Constellium																
Burgner	Abby	Lockheed Martin		x		x		x				x			x	x	x	
Carter	Matthew	Bergschrund Engineering LLC	x	x		x	x	x	x	x		x	x	x	x	x	x	x
Casey	Michael	Parker Lord					x					x	x	x	x	x	x	
Clancy	Adam	Harmonic Drive	x	x		x		x		x		x	x	x	x			
Claves	Steven	Novelis		x		x	x											
Cordner	Sam	NASA			x	x	x	x				x	x	x	x	x	x	x
Coronado	Peter	The Boeing Company						x				x						
Crill	Matthew	The Barnes Global Advisors										x	x	x	x	x	x	x
Cunha	Mauricio	Embraer		x		x	x		x	x		x	x	x	x	x	x	x
Dangerfield	Victor	Lockheed Martin		x		x	x		x	x		x			x			
Davis	Ryan	Arconic																
Davis	Joel	Rolls-Royce		x		x				x		x	x	x	x	x	x	x
Dickson	Colister	Lockheed Martin					x			x			x		x		x	
Dos Reis	Brian	Northrop Grumman Aerospace Systems					x					x			x		x	
Elwell	Abram	The Boeing Company		x		x		x	x			x	x		x	x	x	x
Ernst	Alexis	RTX													x			
Eveleth	Jacob	US Air Force			x	x						x	x	x	x	x	x	x
Fadavi	Yasaman	Sierra Nevada Corp.		x		x		x				x	x		x	x	x	x
Foster	Michael	Gulfstream Aerospace																
Fung	Mela	L3Harris																
Garcia Avila	Matias	ATI		x		x	x	x	x			x	x	x	x	x	x	x
Gedeon	Mike	Materion Brush Inc.		x		x	x					x	x				x	
Gill	Joseph	Collins Aerospace (RTX)		x		x	x		x	x		x	x	x	x	x	x	x
Griffiths	Seth	Accelleron Industries Ltd.	x															
Guimarães	Victor	Embraer		x														
Hall	Doug	Battelle Memorial Institute		x		x						x	x	x	x	x	x	x
Hall	Gary	Bell Textron Inc.		x		x			x									
Harding	Matthew	GKN Aerospace													x			
Haynes	Kyle	Norsk Titanium																
Herbst	Kaitlyn	US Air Force						x				x			x		x	
Hill	Leon	GKN Aerospace													x	x	x	x
Hung	Cain	Collins Aerospace (RTX)		x		x			x						x		x	x
James	Mark	Westmoreland (WMTR)		x		x		x		x		x	x	x	x	x	x	
Jennings	James	US Navy				x		x										x
Jeon	Hyunhee	Korea Aerospace Industries																

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Johnson	Dwight	Textron Aviation (Cessna)		x		x		x	x			x	x	x	x	x	x	x
Jones	Marshall	US Navy			x	x						x	x		x	x	x	x
Kabbara	Jamil (Jim)	Federal Aviation Administration			x	x	x		x				x		x		x	
Kershner	Christopher	US Air Force						x				x	x		x			
Kusner	Robert	Materion Brush Inc.		x		x	x		x			x	x	x	x		x	
Kwon	Yong-Nam	Korea Institute of Materials Science		x		x		x	x			x	x	x	x	x		
Lamas	Jose Eduardo	Embraer										x						
Lamb	Justin	Universal Alloy		x		x	x	x	x	x		x	x	x	x		x	x
Lammatao	Joel	L3Harris					x		x	x		x	x	x	x	x	x	x
Larsen	Hilde Løken	Norsk Titanium					x		x			x	x		x	x	x	
Lindsey	Daniel	US Navy			x	x	x	x	x	x		x	x		x	x	x	x
Liou	Richard	RTX		x		x	x		x	x		x	x	x	x	x	x	x
Lipinski	Dorothy	Northrop Grumman Aerospace Systems		x		x	x		x	x		x	x		x	x	x	x
Louke	Jeremy	Ansys		x		x	x		x	x		x		x	x	x		
Lovingfoss	Royal	Wichita State University - NIAR		x														
Maciejewski	Kimberly	Arconic		x		x	x	x	x	x		x	x		x	x	x	x
Mantione	John	ATI		x		x	x		x	x		x		x	x	x	x	x
Mantz	Raley	Spirit AeroSystems	x	x		x	x	x	x	x		x		x	x		x	x
Marrs	Grayson	Battelle Memorial Institute	x	x		x	x	x	x			x	x	x	x	x	x	x
Martin	John	America Makes										x	x	x	x			
McLaughlin	Stephen	Sierra Nevada Corp.		x		x	x	x		x		x	x					
Minotti	John	MTS		x														
Miyazaki	Marcos	Embraer													x			
Muldoon	Ariel	The Boeing Company		x														
Nacea	Chris	Sierra Nevada Corp.		x		x	x	x	x	x		x	x	x				
Nagao	Kazuki	Honda Aero Inc.																
Nicholson	Shane	Parker Lord													x		x	
Niedzinski	Michael	Constellium															x	x
Norimatsu	Koichi	IHI Corporation		x		x	x		x	x		x	x	x	x	x	x	x
Ocampo	Miguel	Parker Lord																
Ofsthun	Mark	Honda Aircraft Company		x		x	x			x		x	x				x	
Olsen	Kirk	Parker Lord	x	x		x		x	x			x	x	x	x			
Ozima	Nick	The Boeing Company				x		x	x			x						
Panado	Christopher	The Boeing Company						x				x			x		x	
Park	Jooyoung	Korea Aerospace Industries		x		x			x			x			x		x	
Pascal	Lortie	Bombardier		x		x		x	x			x	x	x	x	x	x	
Piché	Marie	Bombardier		x		x		x	x	x		x	x		x	x	x	x
Pizzano	Carlo	DARPA				x	x								x	x	x	
Raposo	Humberto	Carpenter Technology Corporation													x		x	
Reynolds	Ashley	Spirit AeroSystems				x				x		x			x		x	
Reynolds	Brian	Arconic															x	
Riddle	Lenn	General Atomics		x		x		x	x			x	x		x	x	x	x
Riegler	Philip	Norsk Titanium		x		x		x					x		x	x		
Robbins	Reed	Sierra Nevada Corp.																
Rocha	Elisa	Embraer		x		x	x		x	x		x	x	x	x	x	x	x
Roepke	Caleb	Blue Origin										x			x	x	x	x
Rogers	Matthew	Parker Lord					x		x	x		x	x	x	x		x	x
Roman	Keith	RTX																
Rubadue	Jana	Battelle Memorial Institute		x		x						x					x	x
Rusk	David	US Navy			x	x	x			x		x	x		x	x	x	x
Rutter	Fiona	Ansys				x									x		x	

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Safarian	Patrick	Federal Aviation Administration																
Sandell	Viktor	GKN Aerospace		x	x	x								x				
Scalf	Cyndee	Battelle Memorial Institute		x		x						x	x	x	x		x	x
Scheuring	Jason	Kaiser Aluminum		x		x	x		x	x		x		x	x		x	x
Schultz	Ralph	Gulfstream Aerospace		x		x	x		x	x			x		x		x	x
Sheffels	Christopher	Honda Aircraft Company		x		x		x	x			x	x		x	x	x	x
Shinde	Sachin	Blue Origin		x	x	x	x			x		x	x	x	x	x	x	
Smith	Ryan	Honda Aero Inc.		x	x	x						x	x	x	x	x	x	x
Snyder	Don	Bell Textron Inc.										x	x	x	x	x	x	
Snyder	Matthew	Battelle Memorial Institute		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										x	x		x	x		
Stonaker	Kevin	Federal Aviation Administration			x	x			x			x	x	x	x		x	x
Sutton	Adam	Lockheed Martin		x		x	x		x	x		x	x		x	x		
Syed	Moinuddin	The Boeing Company																
Tian	Yongzhe	Federal Aviation Administration			x	x	x	x	x				x		x			x
Torgerson	Tyler	Bell Textron Inc.					x								x			
Toscano	Luis	Embraer																
Tummons	David	The Boeing Company		x		x	x		x	x		x	x	x	x	x	x	x
Ursescu	Lavinia	The Boeing Company																
Vogel	Bret	Textron Aviation (Cessna)		x														
Watkins	Sarah	Collins Aerospace (RTX)										x	x	x	x		x	
Wawrzyniak	Nicolas	Bombardier																
Wertz	Katelun	US Air Force			x	x						x	x	x	x	x	x	x
Whelan	Eugene	Westmoreland (WMTR)																
White	Will	Battelle Memorial Institute		x	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	Aklilu	Federal Aviation Administration			x	x			x									
Young	Bruce	Fluor Marine Propulsion	x	x		x	x					x	x		x		x	x

Observers

48th 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

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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
26-55	Editorial Corrections for MMPDS-2027
26-56	Use of Maximum Likelihood Estimation for Fatigue Curves
26-57	Expansion of the Thickness Range for AA7050-T7451 Plate
26-58	Data Generation Requirement for Creep and Rupture
26-59	Guidance for Elevated Temperature Poisson's Ratio Testing
29-58	Editorial Corrections - Lot-Release Confirmation Process for Blind Fasteners
26-60	Define Runout
26-61	Tension(LT) Upgrade for 7075-T76511 Aluminum Alloy Extrusions
26-62	Editorial Corrections - Lot-Release Confirmation Process for Blind Fasteners
26-63	Consent Agenda Summary for the 48th GCC
26-64	ICME/CM4QC Related Activity Coordination
26-65	Inconel (220 ksi) Bolt Load-Controlled Fatigue Curve
26-66	Update Figure 9.2.4.7.1
26-67	Clarify Requirements for Minimum t/D and Bearing Strength Lines in Section 9.7.1.4
26-68	Revisit Updates to Sections 8.1.3, 8.1.4, and 8.1.5
26-69	AMS4911 Plate Discussion
26-70	Acceptance Testing for Legacy Allow Review when Legacy Dataset Larger than New Dataset
26-71	Acceptance Testing for Legacy Allow Review when Legacy Dataset Smaller than New Dataset
26-72	Acceptance Testing for Volume II Chapter 10, Same Sample Size
26-73	Acceptance Testing for Volume II Chapter 10, Sample Size less than 30
26-74	Acceptance Testing for Comparison to Allowable for Change in Process or Supplier
26-75	Rewrite Section 1.4.6
26-76	Rewrite Section 1.4.7
26-77	Definition of Preform in Volume I
26-78	Use of Splines for Fitting Curves for Thickness Range
26-79	Analysis of Material from Korea Aerospace
26-80	Review V2 Appendix F
26-81	Dynamic Modulus for A-286
26-82	Shear and Bearing Screening Guidance

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New Item Numbers Assigned in 2026

26-83	Definition for LPBF Products
26-84	Correction to Biaxial Curves
26-85	Addition of AMS 5862/H1025
26-86	Lower Tolerance Bound Method for Computing Fatigue Allowables
26-87	Presentation of Fatigue Allowables in MMPDS
26-88	Legacy S-N Curves in MMPDS
26-89	Evaluation of Scatter Factors in Fatigue

48th MMPDS Coordination Meeting Final Minutes

CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
16-23	GTG	PSG	1	9	Re-evaluate Guidelines for Effect of Temperature Curves	On Hold	Closed w no Action	Closed with no action. Updated data generation guidelines were covered in Item 26-22.
22-33	GTG	ETTG	2	9	Microstructure Information Accessibility for MMPDS, V2	Handout	Closed w no Action	The GCC is satisfied that the methods implemented by Battelle and MMPDS licensees are acceptable.
24-06	GTG		1, 2	9	Update to Section 9.3 Data Submission Guidelines	Status	Closed w no Action	D. Hall gave a status update. No further revisions are planned.
24-40	ETTG		2	5	Ti 6-4 AM Test Plan per xxx	Status	Closed w no Action	J. Park (Korea Aerospace) provided a status update. After discussing with the V2 M&M subgroup, the supplier wishes to close this item and begin a new test program. See Item 26-79.
24-78	GTG		1	9	Test Matrix	Agenda	Approved w Changes and Closed	W. White presented this agenda item. Specimen counts updated to assume separate specimens for property type. Footnote added that total sample size can be reduced when multiple properties are obtained from a single specimen.
24-82	GTG		1, 2	1	Investigation on Ultimate and Yield Stresses in Shear Equation 1.4.6.2	Status	Closed w no Action	Item was closed as work will be merged with new item 26-75 related to re-writing Section 1.4.6.
24-84	GTG	PSG	1, 2	9	Table Format Options for Engine vs Airframe Alloys	Status	Closed w no Action	Item was closed as table format was revised in Item 26-29.
24-87	GTG	PSG	1, 2	9	Data Requirement Table for PSG Alloys	Agenda	Approved and Closed	D. Hall presented this agenda item. Modifications to the relative importance for Option 2 (compressive modulus, tensile and elongation after exposure) were captured in Item 26-29.
24-93	MTG	ASG	1	multi	Updating Shear and Bearing Grain Directions to Test Orientations	Agenda	Closed w no Action	G. Marrs presented this agenda item. Assumptions about shear orientations cannot be made. Assumptions about bearing orientations can be made but changes to handbook tables are not a priority. New items 26-75 and 26-76 created to rewrite sections 1.4.6 and 1.4.7 and add additional historical context.

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CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-09	GTG	ETTG	2	1	V2 Specimen Orientations for Fatigue Crack Growth	Agenda	Approved w Changes and Closed	A ballot is going through the ASTM process. That nomenclature will be adopted when finalized.
25-33	GTG		2	0	Requirements to Include D-Basis without C-Basis for V2	Status	Closed w no Action	D. Hall provided a status update. The committee does not wish to continue pursing options for publishing D-Basis without C-Basis.
25-36	GTG	ETTG	2	0	Definition of Preform in V2	Agenda	Approved w Changes and Closed	M. Snyder presented this agenda item. Strike "intermediate", add "thermal", and make specific to DED processes. New item 26-77 created to define preform in Volume I.
25-37	GTG	ETTG	2	9	Investigate Relationship of Unique Chemistry in Relation to Powder Heats	Status	Closed w no Action	Item closed since this topic falls outside of the scope of MMPDS.
25-46	GTG	PSG	1, 2	9	Update Creep Data Requirements to Vary Stress	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Updated language for clarity. Final changes are captured in Item 26-29, Table 9.2.4.
25-49	GTG		1, 2	9	Requirements for Specification Minimum Values for Fracture Toughness	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Editorial changes were captured in PDF. See Item 26-29 Table 9.2.4 for final changes.
25-53	MTG		1	6	Clarification of 718 Bar Tables	Agenda	60 Day Approval	D. Hall presented this agenda item. Comments from the meeting were captured in the minutes.
25-66	MTG		1	3	Fcy Changes for 7075-T76511 Aluminum Alloy Extrusions	Agenda	Approved and Closed	M. Snyder presented this agenda item. Approved upgrading Fcy from S-Basis to A-/B-Basis.

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CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-68	GTG	ETTG	2	9	Tabulated Statistical Information for Elastic and Physical Properties in Volume II	Agenda	Approved w Changes and Closed	W. White presented this agenda item. Footnote added to Poisson's ratio that value may depend on plane in which the specimen was extracted.
25-69	GTG	MTG	1	9	Guidelines for Micrographs within MMPDS, Volume I	Status	Closed w no Action	D. Hall gave a status update. Once requirements are approved for Volume II, those requirements could become recommendation in Volume I. Item was closed and will be merged with Item 25-70.
25-82	GTG	FatWG	1, 2	9	Required Issues to Resolve to Define Fracture Toughness Allowables	Status	Closed w no Action	D. Hall gave a status update. Item was closed as the committee does not wish to publish allowables for fracture toughness.
26-12	ETTG	GTG	2	5	NASGRO Analysis of AMS 7004 FCGR data	Status	Closed w no Action	D. Hall provided a status update. FCGR data for AMS 7004 did not meet minimum requirements for NASGRO fit (only two stress ratios). Collaboration between MMPDS and NASGRO is covered in Item 24-95.
26-29	GTG		1, 2	9	Consolidated Data Requirements Tables	Agenda	60 Day Approval	D. Hall presented this agenda item. Typos and editorial corrections were noted during the discussion. Differing requirements needed for C- and D-Basis will be standardized since D-Basis cannot be published without C-Basis. Battelle will explore options for a digital tool that supplements the printed table.
26-36	GTG		1, 2	9	Update Naming of Effect of Exposure Curves for Clarity	Agenda	Approved w Changes and Closed	G. Marrs presented this agenda. New standardized language for figure titles and axis labels was approved. Figures will be updated as time permits.
26-37	GTG		1, 2	1	Remove or Edit Section 1.4.4.1	Status	Closed w no Action	Item closed as this section was covered in Item 26-53.

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CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
26-38	GTG		1, 2	9	Add a Reference to the Uniformity Requirements as a Footnote	Agenda	Approved and Closed	W. White presented this agenda with Item 24-78. See Item 24-78 for final version.
26-41	GTG	FatWG	1, 2	9	Definitions and Terminology for Fatigue	Agenda	Approved and Closed	D. Hall presented this agenda item. ASTM E1823 will be adopted as the dictionary for terms related to fatigue and fracture.
26-42	GTG	FTG	1	9	Update the Figures in 9.7.1.4	Agenda	Approved and Closed	W. White presented this agenda item. Updated figures for Section 9.7.1.4 of Volume I will appear in MMPDS-2027.
26-43	MTG		1	6	Static vs. Dynamic Modulus Identification for A-286, N-155, 718 Alloys	Agenda	Approved and Closed	G. Marrs presented this agenda item. Approved changing E to E, E_D and G to G_D for 718, and no change for A-286 and N-155. J. Mantione (ATI) offered to provide dynamic modulus data for A-286 (new Item 26-81).
26-44	GTG-F	FTG	1	9	Bayesian Approach for Fastener Analysis Method	Agenda	Approved w Changes and Closed	W. White presented this agenda item. Term 'outlier' was replaced to clarify when method should be used.
26-46	MTG		1	2	Update Footnote for Solution Treated and Aged Materials	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-47	GTG		1, 2	A	Definition of Sponsor in A.3	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Added that a sponsor can either create or modify an entry.
26-48	GTG		1, 2	9	Normal vs. 50% Censored Normal Guidance	Agenda	Approved w Changes and Closed	M. Snyder presented this agenda item. Context added to the 9.5.5 reference. Changes to the MIDAS output are planned.

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	Final	Initial						
26-49	GTG		1, 2	9	New Structure for 9.2.4 Data Requirements Table	Agenda	Closed w no Action	D. Hall presented this agenda item. Table 9.2.4 was restructured in Item 26-29 and additional changes covered in this item were no longer relevant.
26-50	GTG	PSG	1, 2	9	Effect of Temperature and Effect of Exposure Data Requirements	Handout	60 Day Approval	D. Hall presented this handout item. Approved relative importance for Option 2. Data generation requirements covered in Item 26-22.
26-52	GTG		1, 2		Update GCC Bylaws	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Modified language around requirements for a GCC meeting to be considered official.
26-53	GTG		1. 2	1	Update of Section 1.4.4 Stress-Strain Curves	Agenda	Approved and Closed	D. Tummons (Boeing) presented this agenda item.
26-54	MTG		1	3	Stabilization of AMS 4251 for 2090-T83 Sheet	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-55	MTG		1		Editorial Corrections for MMPDS-2027	Consent Agenda	Approved w Changes and Closed	D. Hall presented this consent agenda item. A. Elwell (Boeing) noted a possible typo for shear modulus in #2b. The correction is captured in the minutes.
26-58	GTG	PSG	1, 2	9	Data Generation Requirement for Creep and Rupture	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Text updated for clarity.
26-60	GTG	FatWG	1, 2	9	Define Runout	Agenda	Closed w no Action	D. Hall presented this agenda item. Recommendations for runouts is dependent on application and material. Feedback will be incorporated into rewrite of Section 9.6.1 in Item 17-52.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
26-61	MTG		1	3	Tension(LT) Upgrade for 7075-T76511 Aluminum Alloy Extrusions	Agenda	Approved and Closed	M. Snyder presented this agenda item. Tension(LT) upgraded from S-Basis to A-/B-Basis for 1.5-2.0 inch thickness range.
26-62	GTG-F		1	9	Editorial Corrections - Lot-Release Confirmation Process for Blind Fasteners	Consent Agenda	Approved w Changes and Closed	D. Hall presented this consent agenda item. Minimum requirement for nonparametric analysis corrected to 299 specimens.
26-63	GCC		1	0	Consent Agenda Summary 48th MMPDS GCC	Consent Agenda	Approved w Changes and Closed	D. Hall presented this consent agenda item. Changes were captured for Item and 26-55 and 26-62. See the individual items for final changes.
26-66	GTG-F	FTG	1	9	Update Figure 9.2.4.7.1	Handout	60 Day Approval	W. White presented this handout item. No comments received. Handout approved with 60-day approval.
26-67	GTG-F	FTG	1	9	Clarify Requirements for Minimum t/D and Bearing Strength Lines in Section 9.7.1.4	Handout	60 Day Approval	W. White presented this handout item. No comments received. Handout approved with 60-day approval.
26-69	ETTG	MTG	1, 2	5	AMS4911 Plate Discussion	Present.	Closed w no Action	M. Harding (GKN) and A. Antonysamy (GKN) gave a presentation. Assigned Item number 26-69. Presentation will be provided in the Final Minutes.

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04-21	FTG		1	8	Fastener Tables of Sunset Review Interest	On Hold	Not Covered	This item is on hold. With changes to Sunset Review process and fastener analysis methods, all Sunset Review items will be reviewed. If test data are received or can be generated for an item then it will stay on Sunset Review list and remain open. If test data are not received or cannot be generated for an item then it will be closed with no action and a new item will created to collect lot-release data.
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. Battelle will determine whether sufficient test data have been received or can be generated for this item to continue. Otherwise, Battelle will propose to close this item with no action at the 49th MMPDS meeting and create a new item to collect lot-release data.
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. Battelle will determine whether sufficient test data have been received or can be generated for this item to continue. Otherwise, Battelle will propose to close this item with no action at the 49th MMPDS meeting and create a new item to collect lot-release data.
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. Battelle will determine whether sufficient test data have been received or can be generated for this item to continue. Otherwise, Battelle will propose to close this item with no action at the 49th MMPDS meeting and create a new item to collect lot-release data.
12-89	MTG	PSG	1, 2		Target Materials for Propulsion Applications	Handout	Continue	D. Hall presented this handout item. The list of materials will be included in the minutes.
13-34	MTG		1	5	Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	Handout	Continue	G. Marrs presented this handout item. The item is continued to allow interested parties to get a cost estimates and consider possibilities for completion per Option 2. Please let Battelle know prior to the spring meeting if you can assist. Battelle will follow up on several action items.
13-50	MTG	ETTG	1, 2	9	ASTM Coordination	Status	Continue	D. Hall gave a status update.

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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. Battelle will determine whether sufficient test data have been received or can be generated for this item to continue. Otherwise, Battelle will propose to close this item with no action at the 49th MMPDS meeting and create a new item to collect lot-release data.
15-13	MTG	ASG	1	multi	Clarification of Shear Orientation for Legacy Alloys	Agenda/ Handout	Continue	G. Marrs presented this agenda item. Most proposed changes were accepted. This item will continue with the remaining needed changes.
15-38	GTG	PSG	1	9	Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature	On Hold	Not Covered	This item has been placed on hold while Battelle waits for new data to use for demonstrations.
16-12	FTG		1	8	Identifying Basis of Fastener Shear Strength on Remaining Tables	Handout	Continue	W. White presented this handout item. Battelle will analyze lot-release data for AL905 from Ateliers de la Haute-Garonne and present results to FTG.
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. Approved corrections to Table 8.1.3.2.2(c) were never implemented and will be shown, along with additional footnote changes, to FTG at 49th MMPDS meeting.
16-23	GTG	PSG	1	9	Re-evaluate Guidelines for Effect of Temperature Curves	On Hold	Closed w no Action	Closed with no action. Updated data generation guidelines were covered in Item 26-22.
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	Status	Not Covered	Battelle has funding for the current program year targeting improvements for fatigue.
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	Battelle has funding for the current program year targeting improvements for fatigue.
17-63	GTG	FatWg	1	9	Use of Box-Cox Transformation in the Fitting of Fatigue Data	Status	Not Covered	A beta tool is available upon request.
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 due to time constraints.
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.

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20-13	ETTG		2		CMH-17/MMPDS Coordination & Collaboration	Status	Continue	D. Hall gave a status update. Volume 7 of CMH-17 is expected to be published soon for non-metal AM.
20-16	ETTG	MTG	2		MMPDS & Additive Metals - Program Plan	Handout	Continue	D. Hall led discussion of this item. Battelle is following nine active programs that intend to submit data for analysis.
20-35	MTG		1	multi	Alloys Requested for Analysis	Status	Continue	D. Hall gave a status update. Battelle will include a list in the meeting minutes.
20-36	MTG		1	multi	Request for Secondary Property Data	Status	Continue	G. Marrs gave a status update. No additional data have been received.
21-02	GTG	ETTG	1, 2	9	Chapter 9 Reorganization – Volume I & II	Status	Continue	D. Hall provided a status update. No additional work has been performed.
21-18	ETTG		2		Updates from V2WG Sub-teams	Status	Continue	Each sub-team provided an update. The Data Generation team has not met and does not plan to meet in the next six months. The Materials & Machines team is reviewing Section 9.2.2 and will recommend improvements. They will also look at the number of machines required as additional data are received. The Certification & Qualification team is working on Item 23-04 and Item 23-11.
21-42	MTG	PSG	1	6	Update for Haynes 230 Strength vs. Temperature curves	On Hold	Not Covered	This item has been on hold. An Agenda Item is planned for th 49th GCC.
22-03	FTG	ASG	1	8	Fasteners Requested for Analysis	Status	Continue	W. White gave a status update. Battelle will work with FTG to determine how to proceed with fastener testing.
22-15	FTG		1	8	Test Plan for Fastener MS20426AD in 2024-T42	On Hold	Not Covered	This item is on hold. Battelle will determine whether sufficient test data have been received or can be generated for this item to continue. Otherwise, Battelle will propose to close this item with no action at the 49th MMPDS meeting and create a new item to collect lot-release data.
22-33	GTG	ETTG	2	9	Microstructure Information Accessibility for MMPDS, V2	Handout	Closed w no Action	The GCC is satisfied that the methods implemented by Battelle and MMPDS licensees are acceptable.
23-04	GTG	ETTG	2	10	V2, 10.3 Overview of Qualification	Status	Continue	A. Yohannes (FAA) and L. Riddle (General Atomics) provided a status update.
23-11	GTG	ETTG	2	10	Section 10.5 Consensus Standards	Status	Continue	A. Yohannes (FAA) and L. Riddle (General Atomics) provided a status update.

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23-19	GTG-F	ETTG, FTG	2	9	Review of 9.7 for Volume II	Status	Continue	D. Hall gave a status update. No additional work has been performed. Items 25-67 and 26-69 may be relevant.
23-20	GTG	ETTG	2	9	Section 9.8 & 9.9 for Volume II	Status	Continue	D. Hall gave a status update. No additional work has been performed.
23-22	ETTG		2	3	6061-RAM2 per AMS 7058	Status	Continue	G. Marrs gave a status update. No additional data have been received.
23-33	GTG	FatWg	1, 2	9	FCGR Variable Load Analysis Methods	Handout	Not Covered	This item was not covered due to time constraints. A beta tool is available on the MMPDS dashboard.
23-43	MTG		1	3	Correction to 7349-T76511 Extrusion Mechanical Properties	Status	Continue	G. Marrs gave a status update. No additional data have been received from Constellium.
23-59	GTG	ETTG	1, 2	9	Scenarios for Upgrading from S-Basis to A/B/C/D-Basis	Status	Continue	D. Hall gave a status update. No additional work has been performed. Name was changed to A/B/C/D-Basis and apply to both volumes. GTG will be responsible.
23-61	ETTG		2		V2WG Coordination & Direction	Status	Continue	S. Cordner (NASA) and M. Crill (BGA) provided a status update.
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	Handout	Continue	G. Marrs and M. Snyder presented the analysis results in this handout item. Further work will be done and an agenda item prepared for the 49th GCC meeting.
24-05	ETTG		2	5	Ti-6Al 4V per AMS 7081 - GAMAT Test Plan	Status	Continue	Data were recently received from Boeing and will be analyzed to prepare an Agenda Item for the 49th GCC meeting.
24-06	GTG		1, 2	9	Update to Section 9.3 Data Submission Guidelines	Status	Closed w no Action	D. Hall gave a status update. No further revisions are planned.
24-16	GTG	ETTG	2	9	Section 9.2.3.5 for Volume II	Status	Continue	D. Hall gave a status update.
24-25	GTG	FSWG	2	8, 9	Friction Stir Processes	Handout	Continue	J. Beckman (Gulfstream) made a presentation on the work of the Friction Stir Welding Working Group to determine data generation requirements. Further work will be done to prepare an agenda item for the 49th GCC meeting.
24-32	ETTG		2		AMS Coordination - Volume II	Status	Continue	D. Hall gave a status update.

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24-38	GTG		1	9	Bearing Edgewise Requirements	On Hold	Not Covered	This item is on hold. See 44th agenda and minutes. A decision was made to review bearing results using indirect method prior to proceeding.
24-40	ETTG		2	5	Ti 6-4 AM Test Plan per xxx	Status	Closed w no Action	J. Park (Korea Aerospace) provided a status update. After discussing with the V2 M&M subgroup, the supplier wishes to close this item and begin a new test program. See Item 26-79.
24-72	ETTG		2	2	15-5PH AM Test Plan per AMS 7073	Status	Continue	M. Casey (Parker-Lord) provided status update. Slides will be included in the Final Minutes.
24-78	GTG		1	9	Test Matrix	Agenda	Approved w Changes and Closed	W. White presented this agenda item. Specimen counts updated to assume separate specimens for property type. Footnote added that total sample size can be reduced when multiple properties are obtained from a single specimen.
24-82	GTG		1, 2	1	Investigation on Ultimate and Yield Stresses in Shear Equation 1.4.6.2	Status	Closed w no Action	Item was closed as work will be merged with new item 26-75 related to re-writing Section 1.4.6.
24-84	GTG	PSG	1, 2	9	Table Format Options for Engine vs Airframe Alloys	Status	Closed w no Action	Item was closed as table format was revised in Item 26-29.
24-87	GTG	PSG	1, 2	9	Data Requirement Table for PSG Alloys	Agenda	Approved and Closed	D. Hall presented this agenda item. Modifications to the relative importance for Option 2 (compressive modulus, tensile and elongation after exposure) were captured in Item 26-29.
24-88	ETTG		2	5	Test Plan for Ti-6-4 per AMS7009	Status	Continue	M. Harding (GKN) provided a status update. Data for S-Basis may be submitted near-term.
24-91	ETTG		2	6	Test Plan for AM ABD900 Ni-based superalloy	Status	Continue	J. Shingledecker (EPRI) provided a status update remotely. Static data has been submitted sufficient to calculate S-Basis tensile properties. Additional data will be delivered soon. For the MES requirement, the committee agreed that SEM and EBSD will be valuable to have but cannot replace the requirement for unetched optical images.

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Item No	Responsible Group Final	Responsible Group Initial	HDBK Vol.	Chpt	Title	Type	Action	48th Meeting Description
24-93	MTG	ASG	1	multi	Updating Shear and Bearing Grain Directions to Test Orientations	Agenda	Closed w no Action	G. Marrs presented this agenda item. Assumptions about shear orientations cannot be made. Assumptions about bearing orientations can be made but changes to handbook tables are not a priority. New items 26-75 and 26-76 created to rewrite sections 1.4.6 and 1.4.7 and add additional historical context.
24-95	GTG		1, 2	9	Discuss NASGRO/MMPDS collaboration	Status	Continue	D. Hall gave a status update.
25-02	GTG	FatWG	1, 2	9	Required Issues to Resolve to Define Fatigue Allowable	Handout	Continue	D. Hall led discussion of this item. Problem statement revised to not explicitly refer to S-Basis. M. Gorelik presented a roadmap for fatigue allowables in MMPDS; slides will be included in the Final Minutes.
25-09	GTG	ETTG	2	1	V2 Specimen Orientations for Fatigue Crack Growth	Agenda	Approved w Changes and Closed	A ballot is going through the ASTM process. That nomenclature will be adopted when finalized.
25-10	ETTG		2	3	Test Plan for AA7050 RAM2 per AMS7070/7071	Status	Continue	D. Hall provided a status update. No data have been received.
25-19	GTG		1, 2	1, 9	Modulus of Rupture Curves in MMPDS	Status	Continue	D. Hall provided a status update. Provide any known relevant references to Battelle.
25-28	FTG		1	8	Moving Fastener Data Requirements and Examples to Section 9.7 or Ch. 8	Handout	Continue	W. White presented this handout item. An agenda item will be prepared for the 49th MMPDS meeting to move examples in section 9.9.5 and 9.9.6 to new subsections in 9.7. Example in 9.9.5 will be updated as part of item 25-72.
25-29	GTG	MATSSG	1, 2		Examples of Specimen Location in Test Plan Layouts	Handout	Continue	M. Snyder presented this handout item. A revised figure including a square derived specimen will be included in an agenda item for the 49th GCC meeting.
25-32	GTG		1, 2		Investigate Use of Total Strain at Failure in V1 and V2	Agenda	Continue	G. Marrs presented this agenda item. Discussion revolved around if current data are total strain at failure or not. Some say it will be elongation after failure because it is cheaper. Data for analysis are only reported as elongation so the handbook does not differentiate. Further investigation is needed.

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25-33	GTG		2		Requirements to Include D-Basis without C-Basis for V2	Status	Closed w no Action	D. Hall provided a status update. The committee does not wish to continue pursing options for publishing D-Basis without C-Basis.
25-34	GTG	ETTG	2	9	Guidelines for a Secondary Supplier Upgrading Basis of V2 Tables	Status	Continue	D. Hall provided a status update. The item name will be changed to cover both volumes.
25-36	GTG	ETTG	2		Definition of Preform in V2	Agenda	Approved w Changes and Closed	M. Snyder presented this agenda item. Strike "intermediate", add "thermal", and make specific to DED processes. New item 26-77 created to define preform in Volume I.
25-37	GTG	ETTG	2	9	Investigate Relationship of Unique Chemistry in Relation to Powder Heats	Status	Closed w no Action	Item closed since this topic falls outside of the scope of MMPDS.
25-39	GTG		1, 2		Recommended Best Practice Test Conditions for E111	Agenda	Continue	G. Marrs presented this agenda item. There was discussion on why 3 tests are used in the first place and if we need to require it. Either for testing inaccuracy, poor testing machines, or working out slack in the system. This item is continued to discuss further. Contact Battelle if interested in joining group to discuss E111.
25-46	GTG	PSG	1, 2	9	Update Creep Data Requirements to Vary Stress	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Updated language for clarity. Final changes are captured in Item 26-29, Table 9.2.4.
25-49	GTG		1, 2	9	Requirements for Specification Minimum Values for Fracture Toughness	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Editorial changes were captured in PDF. See Item 26-29 Table 9.2.4 for final changes.
25-53	MTG		1	6	Clarification of 718 Bar Tables	Agenda	60 Day Approval	D. Hall presented this agenda item. Comments from the meeting were captured in the minutes.
25-58	GTG	ETTG	2	9	Radiographic Acceptance Criteria in Additively Manufactured Material Specifications	Status	Continue	A. Yohannes (FAA) provided a status update.
25-61	MTG		1	2	PH13-8Mo per AMS 5629/H1100	Status	Continue	D. Hall provided a status update.
25-62	MTG		1	3	New Alloy - AA2050-T62	Status	Continue	M. Niedzinski (Constellium) gave a presentation.
25-63	ETTG		2	3	Test Plan for AMS 7030	Status	Continue	M. Casey (Parker Lord) provided a status update. No progress has been made from the previous meeting.
25-64	ETTG		2	6	Test Plan for Haynes 230 MMC with Carbon Nanotubes	Status	Continue	D. Hall provided a status update.

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25-66	MTG		1	3	Fcy Changes for 7075-T76511 Aluminum Alloy Extrusions	Agenda	Approved and Closed	M. Snyder presented this agenda item. Approved upgrading Fcy from S-Basis to A-/B-Basis.
25-67	ETTG		2	5	Mechanical Properties of AMS 7004 with Substrate Material and/or Heat Affected Zone	Status	Continue	M. Stepanova (Norsk) gave a status update. Data will be provided to Battelle for analysis. Continued discussion is needed to determine where data may be published within MMPDS.
25-68	GTG	ETTG	2	9	Tabulated Statistical Information for Elastic and Physical Properties in Volume II	Agenda	Approved w Changes and Closed	W. White presented this agenda item. Footnote added to Poisson's ratio that value may depend on plane in which the specimen was extracted.
25-69	GTG	MTG	1	9	Guidelines for Micrographs within MMPDS, Volume I	Status	Closed w no Action	D. Hall gave a status update. Once requirements are approved for Volume II, those requirements could become recommendation in Volume I. Item was closed and will be merged with Item 25-70.
25-70	GTG	ETTG	2	9	Guidelines for Micrographs within MMPDS, Volume II	Status	Continue	D. Hall provided a status update. Discussion of standards for magnification will be covered by this item. Combine with requirements for Volume I and II.
25-71	GTG	ETTG	2	9	Investigate Statistical Acceptance Test Methods	Handout	Continue	W. White presented this handout item. Five new items created to discuss specific scenarios where guidance needed for acceptance testing: Items 26-70, 26-71, 26-72, 26-73, and 26-74.
25-72	GTG	FTG	1	9	Review and Update Section 9.9.5 Mechanically Fastened Joints	Status	Continue	W. White provided a status update. Example will be updated in an agenda item for the 49th MMPDS meeting.
25-73	GTG		1, 2		Engineering Judgment Utilization	Status	Continue	D. Hall provided a status update.
25-77	GTG		1, 2	9	Consequences of Spearman's Rank Correlation Threshold Violations	Status	Continue	M. Snyder provided a status update. Behavior of the indirect method will continue to be monitored as data are received.
25-81	GTG	FATWG	1, 2	9	Required Issues to Resolve to Define FCGR Allowables	Status	Continue	D. Hall gave a status update.
25-82	GTG	FatWG	1, 2	9	Required Issues to Resolve to Define Fracture Toughness Allowables	Status	Closed w no Action	D. Hall gave a status update. Item was closed as the committee does not wish to publish allowables for fracture toughness.

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25-83	GTG		1, 2		Investigate uses of Bayesian Statistics	Status	Continue	W. White gave presentation on possible framework of Bayesian update for fatigue models. Presentation will be included in the Final Minutes.
25-84	ETTG		2	2	V2 Alloy Introduction - Section 2.1	Handout	Continue	D. Hall presented this handout item. Provide suggested edits to Battelle.
25-85	ETTG		2	3	V2 Alloy Introduction - Section 3.1	Handout	Continue	D. Hall presented this handout item. Provide suggested edits to Battelle.
25-86	ETTG				Machine Requirement for Volume II	Status	Continue	M. Crill (TBGA) provided a status update.
26-01	ETTG		2	6	V2 Alloy Introduction - Section 6.1	Handout	Continue	D. Hall presented this handout item. Provide suggested edits to Battelle.
26-02	ETTG		2	7	V2 Alloy Introduction - Section 7.1	Handout	Continue	D. Hall presented this handout item. Provide suggested edits to Battelle.
26-12	ETTG	GTG	2	5	NASGRO Analysis of AMS 7004 FCGR data	Status	Closed w no Action	D. Hall provided a status update. FCGR data for AMS 7004 did not meet minimum requirements for NASGRO fit (only two stress ratios). Collaboration between MMPDS and NASGRO is covered in Item 24-95.
26-13	MTG	FatWg	1	3	S/N Fatigue Data for 7050 per AMS 4050	Status	Continue	M. Snyder presented preliminary analysis of the S/N data using the random fatigue limit model as part of Item 26-56. Continued development of fatigue analysis methods is planned.
26-22	GTG	PSG		9	Data Generation Requirement for Effect of Temperature	Agenda	Continue	D. Hall presented this agenda item. The proposed sample size may be high. Additional investigation into statistical justifications and costing will be performed. A revised Agenda Item will be prepared for the 49th GCC meeting.
26-24	GTG	ETTG	2	9	Review & Revise Section 9.2.2, Volume II	Status	Continue	M. Crill (TBGA) provided a status update. Draft language will be included in the minutes. Additional revisions are needed related to friction stir welding.
26-25	FTG		1	8	Chapter 8 Table Specification Review	Status	Continue	G. Marrs provided a status update. No additional work has been performed.

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26-29	GTG		1, 2	9	Consolidated Data Requirements Tables	Agenda	60 Day Approval	D. Hall presented this agenda item. Typos and editorial corrections were noted during the discussion. Differing requirements needed for C- and D-Basis will be standardized since D-Basis cannot be published without C-Basis. Battelle will explore options for a digital tool that supplements the printed table.
26-31	GTG		1, 2	9	Lot-Release Analysis of Creep Test Results	Agenda	Continue	D. Hall presented this agenda item. It was agreed to recommend these requirements to AMS to determine lot release minimums. A question was raised on how the elongation was determined. The recommendation will be presented to AMS. If approved to add into their requirements, Table 9.2.4 will be updated to reflect requirements for lot release data.
26-32	MTG		1	3	Addition of AA2046 Plate	Handout	Continue	G. Marrs presented this handout item. Two low bearing tests came from the same lot and were paired with the same tensile value. These low values make the data fail direct analysis. The data are also poorly correlated to tension therefore indirect also will not work. Item 26-82 was opened to explore options for shear and bearing screening test programs to identify critical orientations. K. Maciejewski (Arconic) noted that ASTM E238 had a round robin and there may be room to improve the precision of the standard.
26-33	MTG		1	6	Review of AMS 5737	Handout	Continue	G. Marrs presented this handout item. PSG will also review to provide further guidance on desired product forms and specifications.
26-34	GTG	ETTG	2	9	Additional Requirements for Material Specifications	Status	Continue	T. LeBrun (TBGA) provided a status update.
26-35	MTG		1	3	Upgrade Properties of C355-T6 per AMS 4215	Status	Continue	D. Hall provided a status update.
26-36	GTG		1, 2	9	Update Naming of Effect of Exposure Curves for Clarity	Agenda	Approved w Changes and Closed	G. Marrs presented this agenda. New standardized language for figure titles and axis labels was approved. Figures will be updated as time permits.
26-37	GTG		1, 2	1	Remove or Edit Section 1.4.4.1	Status	Closed w no Action	Item closed as this section was covered in Item 26-53.

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26-38	GTG		1, 2	9	Add a Reference to the Uniformity Requirements as a Footnote	Agenda	Approved and Closed	W. White presented this agenda with Item 24-78. See Item 24-78 for final version.
26-39	ETTG		2	5, 9	Addition of Coordinate System Figure to 5.4.1 of Volume II	Status	Continue	D. Hall provided a status update. An agenda will be prepared for the 49th meeting.
26-40	GTG		2	9	Update Width and Height Definitions	Handout	Continue	D. Hall presented this handout item. No comments were received. Agenda item will be created for the 49th GCC meeting.
26-41	GTG	FatWG	1, 2	9	Definitions and Terminology for Fatigue	Agenda	Approved and Closed	D. Hall presented this agenda item. ASTM E1823 will be adopted as the dictionary for terms related to fatigue and fracture.
26-42	GTG	FTG	1	9	Update the Figures in 9.7.1.4	Agenda	Approved and Closed	W. White presented this agenda item. Updated figures for Section 9.7.1.4 of Volume I will appear in MMPDS-2027.
26-43	MTG		1	6	Static vs. Dynamic Modulus Identification for A-286, N-155, 718 Alloys	Agenda	Approved and Closed	G. Marrs presented this agenda item. Approved changing E to E, E_D and G to G_D for 718, and no change for A-286 and N-155. J. Mantione (ATI) offered to provide dynamic modulus data for A-286 (new Item 26-81).
26-44	GTG-F	FTG	1	9	Bayesian Approach for Fastener Analysis Method	Agenda	Approved w Changes and Closed	W. White presented this agenda item. Term 'outlier' was replaced to clarify when method should be used.
26-45	GTG		1, 2	9	Graphical Representation of Uniformity Equations	Handout	Continue	W. White presented this handout item. An agenda will be prepared for the 49th meeting. A tool will be added to the dashboard; contact Battelle if interested.
26-46	MTG		1	2	Update Footnote for Solution Treated and Aged Materials	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-47	GTG		1, 2	A	Definition of Sponsor in A.3	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Added that a sponsor can either create or modify an entry.

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26-48	GTG		1, 2	9	Normal vs. 50% Censored Normal Guidance	Agenda	Approved w Changes and Closed	M. Snyder presented this agenda item. Context added to the 9.5.5 reference. Changes to the MIDAS output are planned.
26-49	GTG		1, 2	9	New Structure for 9.2.4 Data Requirements Table	Agenda	Closed w no Action	D. Hall presented this agenda item. Table 9.2.4 was restructured in Item 26-29 and additional changes covered in this item were no longer relevant.
26-50	GTG	PSG	1, 2	9	Effect of Temperature and Effect of Exposure Data Requirements	Handout	60 Day Approval	D. Hall presented this handout item. Approved relative importance for Option 2. Data generation requirements covered in Item 26-22.
26-51	GTG-F	FTG	1	8	Update Section 8.1.2	Handout	Continue	W. White presented this handout item. Needed revisions will be sent to Battelle by P. Coronado (Boeing).
26-52	GTG		1, 2		Update GCC Bylaws	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Modified language around requirements for a GCC meeting to be considered official.
26-53	GTG		1. 2	1	Update of Section 1.4.4 Stress-Strain Curves	Agenda	Approved and Closed	D. Tummons (Boeing) presented this agenda item.
26-54	MTG		1	3	Stabilization of AMS 4251 for 2090-T83 Sheet	Consent Agenda	Approved and Closed	D. Hall presented this consent agenda item.
26-55	MTG		1		Editorial Corrections for MMPDS-2027	Consent Agenda	Approved w Changes and Closed	D. Hall presented this consent agenda item. A. Elwell (Boeing) noted a possible typo for shear modulus in #2b. The correction is captured in the minutes.
26-56	GTG	FatWg	1, 2	9	Use of Maximum Likelihood Estimation for Fatigue Curves	Handout	Continue	M. Snyder presented this handout item. Continued development of fatigue analysis methods and data generation requirements is planned.
26-57	MTG		1	3	Expansion of the Thickness Range for AA7050-T7451 Plate	Handout	Continue	G. Marrs presented this handout item. K. Maciejewski (Arconic) shared a presentation. Item 26-78 was created to investigate the use of splines for thickness effect.

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26-58	GTG	PSG	1, 2	9	Data Generation Requirement for Creep and Rupture	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Text updated for clarity.
26-59	GTG	PSG	1, 2	9	Guidance for Elevated and Cryogenic Temperature Poisson's Ratio Testing	Handout	Continue	This item was discussed during the PSG. Direct calculation of Poisson's ratio is preferred and should be mandatory if anisotropic.
26-60	GTG	FatWG	1, 2	9	Define Runout	Agenda	Closed w no Action	D. Hall presented this agenda item. Recommendations for runouts is dependent on application and material. Feedback will be incorporated into rewrite of Section 9.6.1 in Item 17-52.
26-61	MTG		1	3	Tension(LT) Upgrade for 7075-T76511 Aluminum Alloy Extrusions	Agenda	Approved and Closed	M. Snyder presented this agenda item. Tension(LT) upgraded from S-Basis to A-/B-Basis for 1.5-2.0 inch thickness range.
26-62	GTG-F		1	9	Editorial Corrections - Lot-Release Confirmation Process for Blind Fasteners	Consent Agenda	Approved w Changes and Closed	D. Hall presented this consent agenda item. Minimum requirement for nonparametric analysis corrected to 299 specimens.
26-63	GCC		1		Consent Agenda Summary 48th MMPDS GCC	Consent Agenda	Approved w Changes and Closed	D. Hall presented this consent agenda item. Changes were captured for Item and 26-55 and 26-62. See the individual items for final changes.
26-64	GCC		1, 2		ICME/CM4QC Related Activity Coordination	Status	Continue	D. Hall provided a status update.
26-65	FTG		1	8	Inconel (220 ksi) Bolt Load-Controlled Fatigue Curve	Present.	Continue	K. Olsen (Parker) gave a presentation.
26-66	GTG-F	FTG	1	9	Update Figure 9.2.4.7.1	Handout	60 Day Approval	W. White presented this handout item. No comments received. Handout approved with 60-day approval.
26-67	GTG-F	FTG	1	9	Clarify Requirements for Minimum t/D and Bearing Strength Lines in Section 9.7.1.4	Handout	60 Day Approval	W. White presented this handout item. No comments received. Handout approved with 60-day approval.
26-68	GTG-F	FTG	1	8	Revisit Updates to Sections 8.1.3, 8.1.4, and 8.1.5	Handout	Continue	W. White presented this handout item. Needed revisions will be sent to Battelle by P. Coronado (Boeing).

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26-69	ETTG	MTG	1, 2	5	AMS4911 Plate Discussion	Present.	Closed w no Action	M. Harding (GKN) and A. Antonysamy (GKN) gave a presentation. Assigned Item number 26-69. Presentation will be provided in the Final Minutes.
26-70	GTG		1	9	Acceptance Testing for Legacy Allow Review when Legacy Dataset Larger than New Dataset		New	New item created from 25-71 to address acceptance testing for Legacy allow review when original dataset sample size is larger than new dataset sample size (N>n).
26-71	GTG		1	9	Acceptance Testing for Legacy Allow Review when Legacy Dataset Smaller than New Dataset		New	New item created from 25-71 to address acceptance testing for Legacy allow review when original dataset sample size is smaller than new dataset sample size(N<n).
26-72	GTG		2	9	Acceptance Testing for Volume II Chapter 10, Same Sample Size		New	New item created from 25-71 to address acceptance testing guidance in chapter 10 of Volume II when the original and new datasets have same sample size (N=n).
26-73	GTG		2	9	Acceptance Testing for Volume II Chapter 10, Sample Size less than 30		New	New item created from 25-71 to address acceptance testing guidance in chapter 10 of Volume II when comparing a new dataset of sample size n<30 to a published allowable.
26-74	GTG		1, 2	9	Acceptance Testing for Comparison to Allowable for Change in Process or Supplier		New	New item created from 25-71 to address acceptance testing when comparing a new dataset of sample size n=30 to a published allowable. Current guidance is found in Section 9.4.
26-75	GTG			1	Rewrite Section 1.4.6		New	New item created from 24-93 to provide additional historical information on shear test methods and orientations. D. Tummons (Boeing) to provide a draft.
26-76	GTG			1	Rewrite Section 1.4.7		New	New item created from 24-93 to provide additional historical information on bearing test methods and orientations. D. Tummons (Boeing) to provide a draft.
26-77	GTG		1		Definition of Preform in Volume I		New	New item created from 25-36 to add definition of preform to Volume I.
26-78	GTG		1, 2		Use of Splines for Fitting Curves for Thickness Range		New	New item created to investigate the use of spline regression for effect of thickness. Data from Item 26-57 (AMS7050) will be used as a test case.

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26-79	ETTG		2		Analysis of Material from Korea Aerospace for Volume II		New	New item to track test plan and analysis of new material produced by Korea Aerospace.
26-80	ETTG		2		Review V2 Appendix F		New	New item to remove supplier names from Appendix F in Volume II.
26-81	MTG		1	6	Dynamic Modulus for A-286		New	New item created from Item 26-43 to add dynamic modulus for A-286. J. Mantione (ATI) to provide data.
26-82	GTG		1, 2	9	Shear and Bearing Screening Guidance		New	New item to discuss test programs for shear and bearing to screen orientations. D. Tummons (Boeing) and P. Bittner (Constellium) to collaborate.
26-83	GTG		2		Definition for LPBF Products		New	New item created during Item 24-04 to define a term for the product built by L-PBF processes.
26-83	GTG		2		Definition for LPBF Products		New	New item created during Item 24-04 to define a term for the product built by L-PBF processes.
26-84	MTG		1	2	Correction to Biaxial Curves		New	Comments were received from D. Tummons (Boeing) about errors in the biaxial curves.
26-85	MTG		1	2	Addition of AMS 5862/H1025		New	
26-86	GTG	FatWG	1, 2	9	Lower Tolerance Bound Method for Computing Fatigue Allowables		New	New item created review the existing content of Section 9.6.1.11 and implement changes required by new fatigue curve analysis methods being defined in item 26-56 and others.
26-87	GTG	FatWG	1, 2	9	Presentation of Fatigue Allowables in MMPDS		New	New item created to define how fatigue allowable curves will be shown in MMPDS so that allowable curves are distinct from information only curves.
26-88	GTG	FatWG	1, 2	9	Legacy S-N Curves in MMPDS		New	New item created to define how existing curves will be handled in future editions. Some curves are expected to meet the requirements for fatigue allowables while others will be included for information only.
26-89	GTG	FatWG	1, 2	9	Evaluation of Scatter Factors in Fatigue		New	This is a new item created after the 48th GCC. This item reviews the fatigue life scatter factors of alloys contained in MMPDS.