



Minutes of the 46th MMPDS Coordination Meeting

Held in:

Brookfield, WI
September 15-18, 2025

Compiled by:

Battelle
505 King Avenue
Columbus, OH 43201-2693

Prepared for:

FAA William J. Hughes Technical
Atlantic City, NJ 08405

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46th MMPDS Coordination Meeting – Table of Contents

Introduction of Attendees	1
Approval of the 46th MMPDS Meeting Minutes	1
Chairman Remarks	2
Summaries	3
Registrants Attendance	4
New Item Numbers Assigned in 2025	7
Closed Agenda Items	10
Final Minutes Agenda Item Summary	13
Attachments	37
Open Agenda Items	38
Item 11-05. AMS Coordination – Volume I	39
Item 12-89. Target Materials for Propulsion Applications	46
Item 13-34. Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	49
Item 15-13. Clarification of Shear Orientation for Legacy Alloys	144
Item 15-38. Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature	50
Item 16-23. Re-evaluate Guidelines for Effect of Temperature Curves	50
Item 17-52. Review Section 9.6.1 – Load and Strain Control	56
Item 19-38. Process Intensive Materials & Technologies SDO Coordination	68
Item 21-42. Update for Haynes 230 Strength vs. Temperature Curves	50
Item 23-19. Review of 9.7 for Volume II	69
Item 23-22. Test Plan for AA6061 RAM2 per AMS7054 AMS 7058	70
Item 23-36. Ch. 8 A-Basis Static Allowables Requirement for Fastener Fatigue Figures	71
Item 24-04. Ti-6Al-4V JMADD Test Plan	72
Item 24-25. Friction Stir Welding.....	81
Item 24-32. AMS Coordination – Volume II	82
Item 24-40. Ti-6-4 AM Test Plan per xxx	83
Item 24-78. Test Matrix	96
Item 24-87. Data Requirement Table for PSG Alloys	100
Item 25-09. V2 Specimen Orientations for Fatigue Crack Growth	104

46th MMPDS Coordination Meeting – Table of Contents

Item 25-10. Test Plan for AA7050 RAM2 per AMS7070/7071	105
Item 25-25. Modification of Fastener Analysis Method to Use Robust Methods	106
Item 25-36. Definition of Preform in V2	109
Item 25-39. Recommended Best Practice Test Conditions for E111.....	110
Item 25-44. Static vs Dynamic Modulus Identification in Older Alloys	111
Item 25-46. Update Creep Data Requirements to Vary Stress	114
Item 25-53. Clarification of 718 Bat Tables	115
Item 25-58. Radiographic Acceptance Criteria in Additively Manufactured Material Specifications	117
Item 25-61. PH13-8Mo per AMS 5629/H1100	121
Item 25-63. PH13-8Mo per AMS 5629/H1100	137
<i>Approved or Approved with Changes and Closed</i>	143
Item 15-13. Clarification of Shear Orientation for Legacy Alloys	144
Item 20-10. Upgrade of Secondary Properties of 7075-T76511 Aluminum Alloy Extrusions	163
Item 23-48. Ti-6Al-4V per AMS 7004/7005 (V2)	167
Item 24-17. Updates to the OSAT Method	192
Item 24-67. Addition of 7140-T7351 Aluminum Alloy Plate	234
Item 24-68. Addition of 2074-T8 Aluminum Alloy Sheet	256
Item 24-73. S/N Curves for 15-5PH	280
Item 24-77. Revisions to Table 9.2.4 Data Requirements in V1 and V2	287
Item 24-90. Expansion of Thickness Range Without Derived Properties	308
Item 25-11. Updating MIL Specifications	310
Item 25-16. Fracture Toughness Data Requirements	337
Item 25-21. Section 9.2.4.6.4 Yield Typical Corrections	341
Item 25-27. Update Subscript Notation Consistency in Section 9.7	344
Item 25-30. Legacy Alloy Review B/D-Basis Adjustment with A/C-Basis Adjustment	369
Item 25-31. OSAT Changes for V2 10.2	375
Item 25-40. V2 Combinability of Multiple Laser Systems	390
Item 25-42. Update Section 1.4.6 References to "Amsler" for ASTM B769	391
Item 25-45. Corrections to Equation 9.7.1.4(b)	394

46th MMPDS Coordination Meeting – Table of Contents

Item 25-47. Stabilization of AMS 5933 HSL180	419
Item 25-48. Clarify Correlation Requirements for Indirect Method	426
Item 25-50. Addition of A/B-Basis for 2050-T84 Plate for 7-8 inch Thickness	429
Item 25-51. Editorial Corrections	434
Item 25-52. Volume II, add Figure 9.2.3.1(a) to Ch.1	451
Item 25-54. Stabilization of AMS 4456 for 7037-T7452 Hand Forgings	455
Item 25-55. Modification to Section 9.2.4, V2	469
Item 25-57. Stabilization of AMS 4373 for 2017 Aluminum Alloy	481
60-Day Approval	483
Item 24-45. Update Section 9.9.5 Mechanically Fastened Joints	484
Item 24-67. Addition of 7140-T7351 Aluminum Alloy Plate	486
Item 25-31. OSAT Changes for V2 10.2	375
Item 25-59. Sections 5.1 and 5.4.1 for Volume II	489

46th MMPDS Coordination Meeting

Introduction of Attendees

A list of 46th Coordination Meeting attendees, indicating the meetings they attended, has been incorporated into this document.

Approval of the 46th MMPDS Meeting Minutes

Per the Foreword of MMPDS-2025, 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 17, 2025.

The following three items were placed on 60-Day approval:

- Item 24-45. Update Section 9.9.5 Mechanically Fastened Joints
- Item 24-67. Addition of 7140-T7351 Aluminum Alloy Plate
- Item 25-31. OSAT Changes for V2 10.2
- Item 25-59. Sections 5.1 and 5.4.1 for Volume II

Attendees have until January 16, 2026, to notify Battelle of technical objections to those items. If no comments are received, the items will be closed.

46th MMPDS Coordination Meeting

Chairman's Remarks - Walter Sippel

Thanks to everyone who participated in the 46th MMPDS General Coordination Committee meeting held in Brookfield, WI between September 15 and September 18. 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 69 individuals in-person and 40 participating remotely throughout the week. These subject matter experts represented 47 different government and industry organization and traveled from seven countries.

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 December 17, 2025 (regular items) or January 16, 2026 (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 47th MMPDS GCC meeting. Please advise Battelle as soon as possible if you have a technical comment.

The highlight of the meeting was the approval of three new alloys for inclusion in MMPDS-2026. The next edition of Volume I will include AA7140-T7351 aluminum plate and AA2074-T8 aluminum sheet, both from Constellium. For the first time, the committee approved an additively manufactured alloy, Norsk Titanium's Ti-6Al-4V.

The 47th MMPDS is scheduled to take place in Portland, OR from March 16 through March 19. We look forward to seeing you there.

Thanks again for attending the 46th MMPDS GCC meeting. Your commitment, dedication, and donation of your valuable time to maintain MMPDS is most appreciated. It has been a pleasure working with you on the MMPDS Handbook. Jim Kabbara will be the new MMPDS Chairman, as I'm retiring at the end of 2025.

Best Regards,

Walter Sippel
MMPDS Chairman
Aerospace Engineer, Airframe Section, AIR-622
Technical Policy Branch, AIR-620



SUMMARIES

46th MMPDS Meeting Attendance					September 15th						September 16th		September 17th		September 18th	
Last Name	First Name	Company	Email	Committee Chair, Co-Chair, Vice Chair	ISG	GSG	ISG/GSG	MATSSG	ASG	FTG	GTG	PSG	ETTg	FatWG	MTG	GCC
Antony	Alphons	GKN Aerospace	Alphons.Antony@gkn.com		x			x			x		x	x	x	
Ahn	Jonghan	KPC METAL USA, Inc.	ahnjh@kpcmetalusa.com								x	x	x	x	x	
Ainsworth	Paul	Nanshan Aluminum	paul.ainsworth@nanshaneuro.com					x			x		x			
Ananthasayanam	Balajee	Honda Aero Inc.	bananthasayanam@na.honda.com	FatWG										x		
Bach	Andreas	Novelis	andreas.bach@novelis.adityabirla.com		x		x	x			x		x		x	x
Barber	Lee	RTX	lee.p.barber@rtx.com								x		x			
Bassi	Simarpaul	The Boeing Company	simarpaul.s.bassi@boeing.com		x		x				x		x		x	x
Beckman	Jonathan	Gulfstream Aerospace	jonathan.beckman@gulfstream.com		x					x	x		x		x	x
Bennett	Jay	NASA	jay.e.bennett@nasa.gov			x					x		x		x	x
Benson	Callie	Collins Aerospace (RTX)	callie.benson@collins.com		x		x	x		x	x	x	x	x	x	
Bolton	Garrett	SHEPRA, Inc	garrett.bolton@shepra.com												x	
Bittner	Peter	Constellium	peter.bittner@constellium.com	MATSSG & ISG (Vice)	x		x	x	x		x		x		x	x
Bombardier	Melissa	Bombardier Aerospace	Melissa.Conteduca@aero.bombardier.com								x		x		x	
Bryant	Nathan	University of Dayton - UDRI	nathan.bryant@udri.udayton.edu								x	x	x	x	x	x
Buchwald	Scott	Constellium	scott.buchwald@constellium.com												x	
Casey	Michael	Parker Lord	mikekc32@gmail.com										x	x		
Choi	Jungmuk	JINHAP	superjm@jinhap.com		x											
Conteduca	Melissa	Bombardier Aerospace	Melissa.Conteduca@aero.bombardier.com								x		x		x	
Cordner	Sam	NASA	samuel.m.cordner@nasa.gov	ETTg, CD & M&M					x		x		x		x	x
Coronado	Peter	The Boeing Company	peter.a.coronado@boeing.com		x					x	x		x		x	x
Crill	Matthew	The Barnes Global Advisors	matt@barnesglobaladvisors.com	M&M									x			
Cunha	Mauricio	Embraer	mccunha@embraer.com.br		x				x		x		x		x	
Davis	Joel	Rolls-Royce	joel.davis2@rolls-royce.com	PSG	x		x		x		x	x	x	x	x	x
Dinler	Ali Firat	Tusas Engine Industries	dinleralifirat@gmail.com		x		x	x	x		x	x	x	x	x	x
Elwell	Abram	The Boeing Company	abram.b.elwell@boeing.com	ASG	x			x	x	x	x		x		x	x
Eveleth	Jacob	U.S. Air Force	jacob.eveleth.1@us.af.mil								x		x	x	x	x
Foster	Michael	Gulfstream Aerospace	Michael.E.Foster@gulfstream.com								x		x		x	
Gardner	Slade	Big Metal Additive	slade@bigmetaladditive.com										x	x		
Gill	Joseph	Collins Aerospace (RTX)	joseph.gill@collins.com		x		x	x	x	x	x	x	x	x	x	x
Gombio Rocha	Elisa	Embraer	elisa.rocha@embraer.com.br		x		x	x	x		x	x	x	x	x	x
Gorelik	Michael	Federal Aviation Administration	michael.gorelik@faa.gov			x					x		x		x	
Griffiths	Seth	Accelleron Industries Ltd.	seth.griffiths@acceleron-industries.com										x			
Gruen	Brian	Battelle Memorial Institute	gruenb@battelle.org		x											x
Gurrola	Robert	Howmet Aerospace	bob.gurrola@howmet.com		x		x			x	x					x
Hall	Doug	Battelle Memorial Institute	halld@battelle.org	DGA, ETTg, GTG, MTG	x		x				x	x	x	x	x	x
Hall	Gary	Bell Helicopter	gdhall@bellflight.com										x		x	
Hashimoto	Masakazu	Mitsubishi MHI	masakazu.hashimoto.5m@ds.mhi.com		x		x				x		x	x	x	x
Haynes	Kyle	Norsk Titanium	kyle.haynes@norsktitanium.com								x	x	x			
Hedges	Doug	ATI	doug.hedges@atimaterials.com		x		x						x			
Hill	Leon	GKN Aerospace	leon.hill2@usa.gknaerospace.com						x		x	x		x		
Hung	Cain	Collins Aerospace (RTX)	cain.hung@collins.com		x		x						x	x	x	
James	Mark	Westmoreland (WMTR)	mark.james@wmtr.com		x		x	x			x		x		x	x
Jamieson	Andrew	U.S. Navy	andrew.s.jamieson.civ@us.navy.mil						x		x		x		x	x

46th MMPDS Meeting Attendance					September 15th						September 16th		September 17th		September 18th	
Last Name	First Name	Company	Email	Committee Chair, Co-Chair, Vice Chair	ISG	GSG	ISG/GSG	MATSSG	ASG	FTG	GTG	PSG	ETTG	FatWG	MTG	GCC
Jia	Simon	Howmet Aerospace	simon.jia@howmet.com		x		x			x	x		x		x	
Johnson	Dwight	Textron Aviation (Cessna)	djohnson01@txtav.com		x		x			x	x		x	x	x	x
Jones	Marshall	U.S. Navy	marshall.t.jones.civ@us.navy.mil			x	x				x		x		x	
Kabbara	Jim	Federal Aviation Administration	jim.kabbara@faa.gov	GSG (Vice)		x	x			x	x		x		x	x
Krile	Bob	Battelle Memorial Institute	krile@battelle.org		x						x					
Kwon	Yong-Nam	Korea Institute of Materials Science	kyn1740@kims.re.kr										x			
Lamb	Justin	Universal Alloy	justin.lamb@universalalloy.com		x		x	x		x	x		x	x	x	x
Larsen	Hilde Løken	Norsk Titanium	hilde.loken.larsen@norsktitanium.no									x	x		x	x
Lee	Keeyoung	KPCM Co., Ltd	kylee@kpccorp.co.kr							x	x		x			
Li	Lynn	COMAC SADRI	lynn.li@howmet.com								x	x	x	x	x	x
Lim	Jongmook	Korea Aerospace	jongmook.lim@koreaaero.com		x		x	x		x	x	x	x	x	x	x
Liou	Richard	Collins Aerospace (RTX)	richard.liou@collins.com		x			x		x	x	x	x	x	x	x
Lipinski	Dory	Northrop Grumman	dorothy.miller@ngc.com								x		x	x	x	x
Liu	George	U.S. Army	george.g.liu.civ@army.mil			x	x	x	x		x	x	x	x	x	x
Loli	Jose	Northrop Grumman	jose.loli@ngc.com								x		x			
Maciejewski	Kimberly	Arconic	Kimberly.maciejewski@arconic.com								x		x	x	x	x
Mantione	John	ATI	John.Mantione@ATImaterials.com		x		x	x	x		x	x	x	x	x	x
Martin	John	America Makes, NCDMM	john.martin@ncdmm.org										x	x		
Martin	Todd	U.S. Army	todd.e.martin.civ@army.mil			x	x				x		x		x	
Muldoon	Ariel	The Boeing Company	ariel.c.muldoon@boeing.com		x		x			x	x		x		x	
Nicholson	Shane	Parker Lord	shane.nicholson@parker.com										x			
Niedzinski	Michael	Constellium	michael.niedzinski@constellium.com												x	
Norimatsu	Koichi	IHI Corporation	norimatsu7034@ihi-g.com	PSG	x		x			x	x	x	x	x	x	x
Ofsthun	Mark	Honda Aircraft Company	mark_ofsthun@haci.honda.com	FatWG	x		x	x	x		x		x			
Olsen	Kirk	Parker Lord	kirk.olsen@parker.com		x					x	x		x	x	x	x
Omura	Ryo	Mitsubishi MHI	ryo.omura.jq@mhi.com		x		x				x		x	x	x	x
Park	Jaeseok	Doosan Enerbility	jaeseok1.park@doosan.com										x		x	
Park	Juyoung	Korea Aerospace	jooyoung.park@koreaaero.com		x		x	x			x		x		x	
Park	Sangeun	Doosan Enerbility	sangeun.park@doosan.com		x		x	x			x	x	x			
Park	Alison	Wichita State University - NIAR	alison@amp3d.com		x		x	x	x	x	x	x	x	x	x	x
Piché	Marie	Bombardier Aerospace	marie.piche@aero.bombardier.com		x					x	x		x	x	x	
Pier	Allison	Parker Lord	allison.pier@parker.com												x	
Pujar	Vijay	Collins Aerospace (RTX)	vijay.pujar@collins.com		x								x			
Rackliffe	Moriah	Norsk Titanium	Moriah.Rackliffe@norsktitanium.com		x		x									
Rahdar	Mehrdad	The Boeing Company	mehrdad.m.rahdar@boeing.com								x		x		x	x
Ramaswamy	Nagarajan	Parker Lord	nramaswamy@parker.com					x	x	x	x	x	x	x	x	x
Reakes	Clay	Battelle Memorial Institute	reakes@battelle.org	FTG	x		x			x	x	x	x	x	x	x
Riegler	Philip	Norsk Titanium	philip.riegler@norsktitanium.com										x			
Roepke	Caleb	Blue Origin	croepke@blueorigin.com								x	x	x	x	x	x
Ryu	Sunwoo	Doosan Enerbility	sunwoo.ryu@doosan.com					x			x	x	x			
Scalf	Cyndee	Battelle Memorial Institute	scalf@battelle.org		x		x		x	x	x		x		x	
Scheuring	Jason	Kaiser Aluminum	jason.scheuring@kaiseraluminum.com	ISG (Past Chair)	x			x			x	x	x	x	x	
Schmelzle	John	U.S. Navy	John.schmelzle.civ@us.navy.mil			x	x		x		x		x		x	

46th MMPDS Meeting Attendance					September 15th						September 16th		September 17th		September 18th	
Last Name	First Name	Company	Email	Committee Chair, Co-Chair, Vice Chair	ISG	GSG	ISG/GSG	MATSSG	ASG	FTG	GTG	PSG	ETTg	FatWG	MTG	GCC
Schultz	Ralph	Gulfstream Aerospace	Ralph.schultz@gulfstream.com							x	x		x		x	
Sheffels	Christopher	Honda Aircraft Company	Christopher_Sheffels@haci.honda.com		x					x	x	x	x	x	x	x
Sigler	Gina	U.S. Air Force	gina.sigler.ctr@us.af.mil			x					x		x			
Sippel	Walter	Federal Aviation Administration	walter.sippel@faa.gov	GSG (Chair)		x					x		x	x	x	x
Smith	Ryan	Honda Aero Inc.	ryan_smith@na.honda.com	PSG	x						x	x	x	x	x	
Snyder	Donald	Bell Helicopter	DSnyder2@bellflight.com					x	x		x		x	x	x	
Snyder	Matthew	Battelle Memorial Institute	snydermd@battelle.org		x		x	x	x			x	x	x	x	x
Son	Jinil	Testcor	jjison@testcor.co.kr		x		x			x	x		x		x	
Song	Jeonyoung	Doosan Enerbility	jeonyoung.song@doosan.com		x		x	x			x	x	x		x	
Song	Minhwan	Korea Aerospace	mhsong@koreaero.com				x						x			
Steevens	Andrew	The Boeing Company	andrew.j.steevens@boeing.com	DGA	x		x	x	x	x	x		x	x	x	x
Stepanova	Mariia	Norsk Titanium	mariia.stepanova@norsktitanium.com										x	x		
Stonaker	Kevin	Federal Aviation Administration	kevin.stonaker@faa.gov			x					x		x		x	x
Takahashi	Kotomi	IHI Corporation	takahashi6642@ihi-g.com		x		x	x	x		x	x	x	x	x	x
Tay	Neville	Wichita State University - NIAR	Neville.Tay@idp.wichita.edu											x		
Taylor	Martin	U.S. Navy	martin.r.taylor14.civ@us.navy.mil			x	x	x	x		x	x	x			
Tian	Yongzhe	Federal Aviation Administration	yongzhe.tian@faa.gov	FTG		x	x			x	x		x	x	x	x
Torgerson	Tyler	Bell Helicopter	ttorgerson@bellflight.com								x		x	x		
Tummons	David	The Boeing Company	david.tummons@boeing.com	ISG (Chair)	x			x	x		x	x	x	x	x	x
Tylenda	Jeremy	GKN Aerospace	Jeremy.Tylenda2@usa.gknaerospace.com										x			
Vogel	Bret	Textron Aviation (Cessna)	bvogel@txtav.com	WWG	x		x		x	x	x		x		x	x
Watanabe	Jennifer	The Boeing Company	jennifer.s.watanabe@boeing.com		x		x		x				x		x	
Watkins	Sarah	Collins Aerospace (RTX)	sarah.watkins@prattwhitney.com												x	
Wawrzyniak	Nicolas	Bombardier Aerospace	nicolas.wawrzyniak@aero.bombardier.com										x		x	
Wertz	Katelun	U.S. Air Force	katelun.wertz@us.af.mil			x					x					
White	Seth	United Launch Alliance	seth.t.white@ulalaunch.com										x	x		
White	Will	Battelle Memorial Institute	whitew@battelle.org	SWG	x	x	x			x	x	x	x	x	x	x
Whitman	Zack	The Boeing Company	zachary.l.whitman@boeing.com								x		x	x	x	
Williams	Brady	Wichita State University - NIAR	brady.williams@idp.wichita.edu								x		x			
Yohannes	Aklilu	Federal Aviation Administration	aklilu.yohannes@faa.gov	C&Q		x					x		x		x	

OBSERVERS

46th MMPDS Coordination Meeting

New Item Numbers Assigned in 2025

25-01	PCD Contents in V2 – Cleaning Machines
25-02	Required Issues to Resolve to Define Fatigue Allowable
25-03	Metal Matrix Alloys in MMPDS
25-04	Corrections to 8.1.1 Tables
25-05	AF1410 Condition
25-06	Editorial Corrections
25-07	Stabilization of AMS 4373 for 2017 Aluminum Alloy
25-08	Adding Slash Sheet Specs for PH13-8Mo
25-09	V2 Specimen Orientations for Fatigue Crack Growth
25-10	Test Plan for AA7050-RAM2
25-11	Updating MIL Specifications
25-12	Section 9.5.9 Presentation of Static Properties
25-13	Update Notice for Volume II
25-14	Updating MIL Specifications in Chapter 8
25-15	Addition of Text on Ungrouping Data to V2 9.2.4.2
25-16	Fracture Toughness Data Requirements
25-17	Lot-Release Confirmation Process for Blind Fasteners
25-18	Clarification of "Width" and "Thickness" in DED Preforms
25-19	Modulus of Rupture Curves in MMPDS
25-20	ASTM E111 Best Practices
25-21	Section 9.2.4.6.4 Yield Typical Corrections
25-22	Counting Powder Heats in a Continuous Feed Process
25-23	Consent Agenda for the 45th GCC
25-24	Fastener Allowable Bearing Line Adjustment Procedure
25-25	Modification of Fastener Analysis Method to Use Robust Methods
25-26	Structural Failure Load vs Ultimate Load for Fastener Analysis
25-27	Update Subscript Notation Consistency in Section 9.7
25-28	Moving Fastener Data Requirements and Examples to Section 9.7 or Ch. 8
25-29	Examples of Specimen Location in Test Plan Layouts
25-30	Legacy Alloy Review B/D-Basis Adjustment with A/C-Basis Adjustment
25-31	OSAT Changes for V2 10.2
25-32	Investigate Use of Total Strain at Failure in the V1 and V2
25-33	Requirements to Include D-Basis without C-Basis for V2
25-34	Guidelines for a Secondary Supplier Upgrading Basis of V2 Tables
25-35	Allowing B's without A's in V1
25-36	Definition of Preform in V2
25-37	Investigate Relationship of Unique Chemistry in Relation to Powder Heats
25-38	MMPDS Definition of Metal Matrix Alloys
25-39	Recommended Best Practice Test Conditions for E111
25-40	V2 Combinability of Multiple Laser Systems
25-41	Consider How to Incorporate Rod Test Orientations for Shear Orientations
25-42	Update Section 1.4.6 References to "Amsler" for ASTM B769
25-43	Rounding Method when the A-Basis Value Equals the B-Basis Value

46th MMPDS Coordination Meeting

New Item Numbers Assigned in 2025

25-44	Static vs Dynamic Modulus Identification in Older Alloys
25-45	Corrections to Equation 9.7.1.4(b)
25-46	Update Creep Data Requirements to Vary Stress
25-47	Stabilization of AMS 5933 HSL 180
25-48	Clarify Correlation Requirements for Indirect Method
25-49	Requirements for S-Basis for Fracture Toughness
25-50	Addition of A/B-Basis for 2050-T84 Plate for 7-8 inch Thickness
25-51	Editorial Corrections
25-52	In Volume II, add Figure 9.2.3.1(a) to Ch. 1
25-53	Clarification of 718 Bar Tables
25-54	Stabilization of AMS 4456 for 7037-T7452 Hand Forgings
25-55	Stabilization of AMS 4373 for 2017 Aluminum Alloy
25-56	FTG Long Term Planning
25-57	Modifications to Section 9.2.4, V2
25-58	Radiographic Acceptance Criteria in Additively Manufactured Material Specifications
25-59	Sections 5.1 and 5.4.1 for Volume II
25-60	Consent Agenda for the 46th GCC
25-61	PH13-8Mo per AMS 5629/H1100
25-62	New Alloy - AA2050-T62
25-63	Test Plan for AMS 7030
25-64	Test Plan for Haynes 230 with Carbon Nanotubes
25-66	Determination of %Elongation Lot-Release Limits
25-66	Fcy Changes for 7075-T76511 Aluminum Alloy Extrusions
25-67	Investigate Mechanical Properties of AMS 7004 When Specimens include the Substrate Material and/or Heat Affected Zone
25-68	Tabulated Statistical Information for Elastic and Physical Properties in Volume II
25-69	Guidelines for Micrographs within MMPDS, Volume I
25-70	Guidelines for Micrographs within MMPDS, Volume II
25-71	Investigate Statistical Acceptance Test Methods
25-72	Review and Update Section 9.9.5 Mechanically Fastened Joints
25-73	Engineering Judgment Utilization
25-74	S/N Curves for Type 1 and Type 2 15-5PH Steel
25-75	Indirect Methods Sampling Guidance
25-76	Acceptance Margins for Fastener Analysis
25-77	Consequences of Spearman's Rank Correlation Threshold Violations
25-78	Influence of Specimen Thickness to Specimen Width on Material Allowables
25-79	Revisions to Section 5.4.1 of Volumes I
25-80	Revisions to Section 5.4.1 of Volumes II
25-81	Required Issues to Resolve to Define FCGR Allowables
25-82	Required Issues to Resolve to Define Fracture Toughness Allowables
25-83	Investigate uses of Bayesian Statistics
25-84	Alloy Introduction - Section 2.1
25-85	Alloy Introduction - Section 3.1

46th MMPDS Coordination Meeting

New Item Numbers Assigned in 2025

25-86	Machine Requirement for Volume II
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46th MMPDS Coordination Meeting Final Minutes

CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
19-34	GTG	PSG	1	9	Waive Requirement for Bearing Properties When Appropriate	Status	Closed w no Action	Item 24-87 defines two options for data generation requirements. Option 2 requires temperature dependent properties without requiring bearing data. This item is Closed with no action.
20-10	MTG		1	3	Upgrade of Secondary Properties of 7075-T76511 Aluminum Alloy Extrusions	Agenda	Approved w Changes and Closed	<p>M. Snyder presented this agenda item. For tensile, MTG approved adding a thickness break at 1.5 inch, with S-Basis above 1.5 inch. Compression results were continued to a new item pending additional data. For shear, MTG approved adding a thickness break at 2.5 inch. Bearing results were approved as proposed. The final table will be shown in the minutes.</p> <p>Item 25-66 was created to further investigate the compression changes</p>
21-40	GTG	ETTG	2		Impact of Powder Re-use on AMS7000 625 LPBF	Agenda	Closed w no Action	D. Hall gave a status update. No additional work is expected. The item was closed with no action.
23-48	ETTG	MATSSG	2	5	Ti-6Al-4V per AMS 7004/7005	Status	Approved w Changes and Closed	<p>M. Snyder and C. Reakes presented this agenda item. All changes are captured in the PDFs and will be included in the final minutes.</p> <p>Part A approved with changes. Battelle will include additional statistical information in the minutes.</p> <p>Part B approved with changes.</p> <p>Part C approved with changes.</p> <p>Part D approved. The minutes will include example lossless files in the format recieved.</p> <p>Item 25-67 was created to investigate properties near the substrate.</p> <p>Item 25-68 was created to discuss what statistics should be presented in the Handbook table for mechanical and physical properties.</p> <p>Item 25-69 was created to write guidelines documenting how to include a sample of micrograph images in the handbook and/or add text that states micrographs were submitted.</p> <p>Item 25-70 was created to write guidelines to document include optional micrographs in Volume I.</p>

46th MMPDS Coordination Meeting Final Minutes

CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
24-17	GTG		1, 2		Updates to the OSAT method	Agenda	Approved w Changes and Closed	M. Snyder will present this item. Recommendations were provided at the 45th meeting and are integrated into the meeting minutes but additional changes will be considered from the meeting discussions and incorporated into an updated proposal for the 46th meeting.
24-45	GTG-F	FTG		1	9 Update Section 9.9.5 Mechanically Fastened Joints	Handout	60 Day Approval	C. Reakes will lead discussion of this item. Need to add a disclaimer that the section is no longer valid until there is funding to update it.
24-46	GTG		PMP		Preliminary Material Properties Handbook	Status	Closed w no Action	D. hall will provide a status update. Battelle recommends closing this item with no action.
24-67	MTG	MATSSG		1	3 Addition of 7140-T7351 Aluminum Alloy Plate	Agenda/ Handout	60 Day Approval	M. Snyder will present this agenda item. A telecom will be hosted prior to the meeting so that questions can be researched ahead of time.
24-68	MTG	MATSSG		1	3 Addition of 2074-T8 Aluminum Alloy Sheet	Agenda/ Handout	Approved w Changes and Closed	M. Snyder will present this item. A telecom will be hosted prior to the meeting so that questions can be researched ahead of time.
24-73	MTG	FatWG		1	2 S/N Curves for 15-5PH	Agenda	Approved and Closed	C. Reakes will present this agenda item.
24-77	GTG				9 Revisions to Table 9.2.4 Data Requirements in V1 and V2	Agenda	Approved w Changes and Closed	M. Snyder will present this item.
24-90	GTG			1	9 Expansion of Thickness Range Without Derived Properties	Agenda	Approved and Closed	This item was not covered in the spring meeting due to lack of time. The agenda is repeated from the Spring meeting.
25-01	GTG	ETTG		2	9 PCD Contents in V2 - Cleaning Machines	Status	Closed w no Action	D. Hall will provide a status update
25-11	MTG			1	2,3,5 Updating MIL Specifications	Agenda	Approved w Changes and Closed	A teleconference will be held prior to the meeting to discuss this item. Please let Battelle know if you would like to be included.
25-16	GTG	ETTG	1, 2		9 Fracture Toughness Data Requirements	Agenda	Approved w Changes and Closed	D. Hall will present this item. This item and 25-49 will be presented together. This item clarifies the data requirement in Table 9.2.4 as they apply to specifications that include KIC as a lot release property.
25-21	GTG-F	FTG		1	Section 9.2.4.6.4 Yield Typical Corrections	Agenda	Approved and Closed	C. Reakes will present this agenda item.
25-26	FTG			1	Structural Failure Load vs Ultimate Load for Fastener Analysis	Handout	Closed w no Action	C. Reakes will lead discussion of item.
25-27	GTG			1	Update Subscript Notation Consistency in Section 9.7	Agenda	Approved and Closed	W. White will present this item.
25-30	GTG	ETTG	1, 2		9 Legacy Alloy Review B/D-Basis Adjustment with A/C-Basis Adjustment	Agenda/ Handout	Approved w Changes and Closed	D. Hall will present this item.

46th MMPDS Coordination Meeting Final Minutes

CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
25-31	GTG		2		OSAT Changes for V2 10.2	Handout	60 Day Approval	W. White will present this item. This is a new agenda item to explore how the changes recommended under Item 24-17, Updates to the OSAT Method, would relate to Volume II, Section 10.2 Acceptance Sampling.
25-35	GTG		1		Allowing B's without A's in V1	Handout	Closed w no Action	D. Hall will lead discussion of this item.
25-40	GTG	ETTG	2		V2 Combinability of Multiple Laser Systems	Status	Closed w no Action	W. White will provide a status update.
25-41	MTG		1		Consider How to Incorporate Rod Test Orientations for Shear Orientations	Status	Closed w no Action	Orientations for rod (cylindrical) shapes are covered in ASTM B769. This item will be closed with no action.
25-42	GTG		1	1	Update Section 1.4.6 References to "Amsler" for ASTM B769	Agenda	Approved w Changes and Closed	D. Hall will present this item.
25-43	GTG	ETTG	1		Rounding Method when the A-Basis Value Equals the B-Basis Value	Agenda	Closed w no Action	D. Hall will present this item.
25-45	GTG-F	FTG	1		Corrections to Equation 9.7.1.4(b)	Agenda	Approved and Closed	W. White will present this item.
25-47	MTG		1	3	Stabilization of AMS 5933 HSL 180	Consent Agenda	Approved and Closed	Please contact Battelle prior to the meeting if this item needs to be discussed.
25-48	GTG		1, 2	9	Clarify Correlation Requirements for Indirect Method	Agenda	Approved and Closed	M. Snyder will present this item.
25-50	MTG		1	3	Addition of A/B-Basis for 2050-T84 Plate for 7-8 inch Thickness	Agenda	Approved and Closed	M. Snyder will present this item.
25-51	MTG		1	2	Editorial Corrections	Consent Agenda	Approved and Closed	Please contact Battelle prior to the meeting if this item needs to be discussed.
25-52	GTG		2	1	Volume II, add Figure 9.2.3.1(a) to Ch. 1	Agenda	Approved w Changes and Closed	Battelle will present this agenda item.
25-54	MTG		1	3	Stabilization of AMS 4456 for 7037-T7452 Hand Forgings	Consent Agenda	Approved and Closed	Please contact Battelle prior to the meeting if this item needs to be discussed.
25-55	MTG		1	3	Stabilization of AMS 4373 for 2017 Aluminum Alloy	Consent Agenda	Approved and Closed	Please contact Battelle prior to the meeting if this item needs to be discussed.
25-56	FTG		1	8	FTG Long Term Planning	Status	Closed w no Action	C. Reakes will lead discussion of long term planning related to Chapter 8. This discussion will include mechanical and metallurgical fastening technologies.
25-57	GTG		2	9	Modifications to Section 9.2.4, V2	Agenda	Approved and Closed	D. Hall will present this item.
25-59	ETTG	MATSSG	2	5	Sections 5.1 and 5.4.1 for Volume II	Handout	60 Day Approval	D. Hall will lead discussion of this item. MATSSG will discuss this item on Monday. During the ET TG, this item will be covered at the same time as Item 23-48.
25-60	GCC		1		Consent Agenda for the 46th GCC	Agenda	Approved and Closed	D. Hall will present this item during the GCC. Please contact Battelle if any of the Consent Agenda items require discussion.
25-65	GTG		1, 2	9	Determination of %Elongation Lot-Release Limits	Handout	Closed w no Action	D. Hall will lead discussion of this item.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
04-21	FTG	1	8	Fastener Tables of Sunset Review Interest	Handout	Continue	The FTG discussed closing this item in the future when the Lot-Release Confirmation items are finished. A new list of fasteners needing lot-release review would be created.
08-23	FTG	1	8	Sunset Review of Table 8.1.3.2.2(c), NAS1921C	Agenda	Continue	The FTG discussed closing this item in the future.
09-13	FTG	1	8	Sunset Review of Table 8.1.3.2.3(a), MS21140	Status	Continue	The FTG discussed closing this item in the future when the Lot-Release Confirmation items are finished. A new list of fasteners needing lot-release review would be created.
11-05	MTG	1	1	AMS Coordination - Volume I	Agenda	Continue	D. Hall gave a status update. Details will be included in the Final Minutes
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	Handout	Continue	The FTG discussed closing this item in the future when the Lot-Release Confirmation items are finished. A new list of fasteners needing lot-release review would be created.
12-89	MTG	PSG	1, 2	Target Materials for Propulsion Applications	Agenda	Continue	D. Hall gave a status update. The current priority list will be included in the Minutes
13-34	MTG	1	5	Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	Handout	Continue	C. Reakes presented this handout. Battelle will assess if the data can be analyzed under Option 2. Battelle will check with other material suppliers to determine if they have data that can be used for Option 1.
13-50	MTG	ETTG	1, 2	9 ASTM Coordination	Agenda	Continue	D. Hall gave a status update. Some orientation language for fracture testing has been moved to ASTM E1823. References will be updated editorially. K. Maciejewski (Arconic) reported that ASTM E3076-18e2 has updates related to fitting the linear portion of stress-strain curves.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
14-28	FTG	1	8	Sunset Review of Table 8.1.4.2(i), LGPL2SC-V Pin, 3SLC-C Collar in Clad 7075-T6	Status	Continue	The FTG discussed closing this item in the future when the Lot-Release Confirmation items are finished. A new list of fasteners needing lot-release review would be created.	
15-13	MTG	1	multi	Clarification of Shear Orientation for Legacy Alloys	Handout	Continue	M. Snyder presented this handout item. Proposals 1, 2, 3, 5, 6, 7, and 9 were approved. Continue proposal 4 and 8.	
15-38	GTG	PSG	1	9	Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature	Agenda/Handout	Continue	W. White presented this handout item. This item was discussed in the PSG along with Items 16-23 and 21-42.
16-12	FTG	1	8	Identifying Basis of Fastener Shear Strength on Remaining Tables	Handout	Continue	C. Reakes presented this item. B. Gurrola will investigate the tables that include Howmet products. C. Reakes will reach out to the remaining companies for lot-release shear data.	
16-13	FTG	1	8	Corrections to Table 8.1.3.2.2(c) NAS 1921C	Status	Not Covered	This item was not covered.	
16-23	GTG	PSG	1	9	Re-evaluate Guidelines for Effect of Temperature Curves	Handout	Continue	W. White presented this handout item. This item was discussed in the PSG along with Items 15-38 and 21-42.
17-45	MTG	1	3	Effect of Temperature Curves for 2395-T84 Extrusion	Status	Not Covered	This item was not covered.	
17-52	GTG	FatWg	1	9	Review Section 9.6.1 - Load and Strain Control Fatigue	Handout	Continue	C. Sheffels (Honda Aircraft) gave a status update. A new draft will be included in the minutes.
17-61	GTG	FatWg	1	9	Revising R-curve Requirement in Table 9.2.4	Agenda	Not Covered	This item was not covered.
17-62	GTG	FatWg	1	9	Revising Fatigue Requirement in Table 9.2.4	Status	Continue	C. Sheffels (Honda Aircraft) gave a status update.
17-63	GTG	FatWg	1	9	Use of Box-Cox Transformation in the Fitting of Fatigue Data	Status	Continue	C. Reakes gave a status update.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
19-19	GTG	FatWg	1	9	Consideration of a new Equivalent Stress model for Load-Controlled Fatigue	Agenda	Continue	C. Reakes gave a status update. A handout item for the Modified Walker equation will be prepared for the 47th Meeting.
19-25	GTG	ASG	1	9	Guidelines for Derived Properties for Legacy Alloys	Status	Not Covered	This item was not covered.
19-34	GTG	PSG	1	9	Waive Requirement for Bearing Properties When Appropriate	Status	Closed w no Action	Item 24-87 defines two options for data generation requirements. Option 2 requires temperature dependent properties without requiring bearing data. This item is Closed with no action.
19-38	ETTG		2		Process Intensive Materials & Technologies SDO Coordination	Agenda	Continue	D. Hall gave a status update. Details will be provided in the Final Minutes
20-10	MTG		1	3	Upgrade of Secondary Properties of 7075-T76511 Aluminum Alloy Extrusions	Agenda	Approved w Changes and Closed	M. Snyder presented this agenda item. For tensile, MTG approved adding a thickness break at 1.5 inch, with S-Basis above 1.5 inch. Compression results were continued to a new item pending additional data. For shear, MTG approved adding a thickness break at 2.5 inch. Bearing results were approved as proposed. The final table will be shown in the minutes. Item 25-66 was created to further investigate the compression changes
20-13	ETTG		2		CMH-17/MMPDS Coordination & Collaboration	Agenda	Continue	D. Hall gave a status update.
20-16	ETTG		2		MMPDS & Additive Metals - Program Plan	Agenda	Continue	D. Hall gave a status update. The slides are included in the Handout available to attendees.
20-35	MTG		1	multi	Alloys Requested for Analysis	Handout	Continue	D. Hall gave a status update. J. Mantione (ATI) has data for 15-5PH per AMS5862 to submit.
20-36	MTG		1	multi	Request for Secondary Property Data	Consent Agenda	Continue	D. Hall gave a status update.
21-02	GTG	ETTG	1, 2	9	Chapter 9 Reorganization – Volume I & II	Agenda	Not Covered	This item was not covered due to time constraints.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
21-18	ETTG		2		Updates from V2WG Sub-teams	Agenda	Continue	Co-Chairs gave status updates. An industry Co-Chair is needed for Certification and Qualification Working Group. Materials & Machines will review ASTM F2924 to determine whether it meets specification content requirements.
21-40	GTG	ETTG	2		Impact of Powder Re-use on AMS7000 625 LPBF	Agenda	Closed w no Action	D. Hall gave a status update. No additional work is expected. The item was closed with no action.
21-42	MTG	PSG	1	6	Update for Haynes 230 Strength vs. Temperature curves	Consent Agenda	Continue	W. White presented this handout item. This item was discussed in the PSG along with Items 15-38 and 16-23.
22-03	FTG	ASG	1	8	Fasteners Requested for Analysis	Agenda	Continue	C. Reakes gave a status update. No new fastener/sheet combinations have been requested.
22-15	FTG		1	8	Test Plan for Fastener MS20426AD in 2024-T42	Agenda	Not Covered	This item was not covered.
22-33	GTG	ETTG	2	9	Microstructure Information Accessibility for MMPDS, V2	Consent Agenda	Continue	Battelle will discuss with licensees how to distribute microstructures provided. Items 25-69 and 25-70 were created to develop guidelines for including micrographs in text of V1 (Recommended) and V2 (Mandatory).
23-04	GTG	ETTG	2	10	V2, 10.3 Overview of Qualification	Consent Agenda	Continue	A. Yohannes (FAA) gave a status update. A co-chair is needed for this sub-team
23-11	GTG	ETTG	2	10	Section 10.5 Consensus Standards	Status	Continue	A. Yohannes (FAA) gave a status update. A co-chair is needed for this sub-team

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
23-19	GTG-F	ETTG, FTG	2	9	Review of 9.7 for Volume II	Agenda	Continue	<p>The FTG and Friction Stir Welding Working Group (FSWWG) reviewed this item.</p> <p>9.7.1 - There was agreement that the joint allowable methods will likely be useful in the future for Volume II. The committee will need to discuss the additional data and metadata that would be required by fastening an AM joint. For example, XZ and XY orientations may require separate joint tables or one table for the weakest direction.</p> <p>9.7.2 - The fusion welded joint section needs in-depth review to determine its overall usefulness and robustness. The section will likely need significant updates for publishing allowables.</p>
23-20	GTG	ETTG	2	9	Section 9.8 & 9.9 for Volume II	Handout	Not Covered	<p>This item was not covered due to time constraints. Battelle will begin to draft useful examples based upon data being received. Actual data will not be included.</p>
23-22	ETTG		2	3	6061-RAM2 per AMS 7058	Handout	Continue	<p>D. Hall gave a status update. Details will be provided in minutes.</p> <p>This item was renamed from 6061-RAM2 per AMS 7054 to 6061-RAM2 per AMS 7058 to align with the standard practice of tracking the material specification.</p>
23-33	GTG	FatWg	1, 2	9	FCGR Variable Load Analysis Methods	Agenda	Continue	<p>Item 25-85 was created to draft content of Section 3.1 General for Volume II. This may include other subsections.</p> <p>M. Snyder gave a status update. Battelle has created a beta tool with additional methods that is being finalized. ISG and GSG members have access through the MMPDS Dashboard.</p>

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
23-36	GTG-F FatWG	1	9	Ch. 8 A-Basis Static Allowables Requirement for Fastener Fatigue Figures	Present.	Continue	C. Reakes presented this agenda item. A statement will be drafted for Chapter 1 clearly stating that MMPDS does not require A-Basis static allowables for fastener load-control fatigue curves.
23-43	MTG	1	3	Correction to 7349-T76511 Extrusion Mechanical Properties	Present.	Continue	D. Hall gave a status update. Battelle will continue to work with P. Bittner (Constellium) to get data.
23-48	ETTG MATSSG	2	5	Ti-6Al-4V per AMS 7004/7005	Status	Approved w Changes and Closed	<p>M. Snyder and C. Reakes presented this agenda item. All changes are captured in the PDFs and will be included in the final minutes.</p> <p>Part A approved with changes. Battelle will include additional statistical information in the minutes.</p> <p>Part B approved with changes.</p> <p>Part C approved with changes.</p> <p>Part D approved. The minutes will include example lossless files in the format recieved.</p> <p>Item 25-67 was created to investigate properties near the substrate.</p> <p>Item 25-68 was created to discuss what statistics should be presented in the Handbook table for mechanical and physical properties.</p> <p>Item 25-69 was created to write guidelines documenting how to include a sample of micrograph images in the handbook and/or add text that states micrographs were submitted.</p> <p>Item 25-70 was created to write guidelines to document include optional micrographs in Volume I.</p>

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
23-59	GTG	ETTG	1, 2	9	Scenarios for Upgrading from S-Basis to C/D-Basis	Status	Not Covered	This item was not covered due to time constraints.
23-61	ETTG		2		V2WG Coordination & Direction	Handout	Continue	The Co-Chairs provides a status update.
24-03	GTG		1, 2	9	Equations for Normal Distribution k-factors	On Hold	Not Covered	This item was not covered due to time constraints.
24-04	ETTG		2	5	Ti-6Al-4V JMADD Test Plan	Status	Continue	N. Tay (NIAR) gave a status update. Materials & Machines will review the NCAMP specifications to verify that they meet content requirements.
24-05	ETTG		2	5	Ti-6Al 4V GAMAT Test Plan	Status	Continue	A. Steevens (Boeing) gave a status update. Data collection is almost complete and will be submitted to Battelle soon.
24-06	GTG		1, 2	9	Update to Section 9.3 Data Submission Guidelines	Status	Not Covered	This item was not covered due to time constraints.
24-16	GTG	ETTG	2	9	Section 9.2.3.5 for Volume II	Status	Not Covered	This item was not covered due to time constraints.
24-17	GTG		1, 2		Updates to the OSAT method	Agenda	Approved w Changes and Closed	M. Snyder presented this agenda item. Changes are captured in the PDF and will be included in the final minutes. Update language to use objective terms such as "higher" and "lower" instead of "better" and "worse". Item 25-71 was created to investigate additional statistical tools for process change acceptance.
24-18	GTG		1, 2		Use of the Term "Allowable" for Fatigue and "Allowables" from Various Sources	Status	Continue	D. Hall gave a status update. The GSG will continue to discuss this topic and provide guidance on what can be considered. K. Wertz (USAF) voiced support for this activity.
24-25	GTG	ETTG	2	8, 9	Friction Stir Welding	Status	Continue	The Friction Stir Welding Working Group (FSWWG) discussed this item.
24-32	ETTG		2		AMS Coordination - Volume II	Status	Continue	D. Hall gave a status update. Details will be provided in minutes.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
24-34	GTG	2	9	Consolidation of Stress-Strain Analysis Information	Agenda	Continue	This agenda item was not covered. Prior to presenting, D. Tummons (Boeing) emailed a list of significant changes to this item. Those changes will be discussed prior to the 47th Meeting.	
24-38	GTG	1	9	Bearing Edgewise Requirements	On Hold	Not Covered	This item was not covered due to time constraints.	
24-40	ETTG	2	5	Ti 6-4 AM Test Plan per xxx	Status	Continue	J. Park (KAI) gave a status update. The GCC gave KAI feedback on their plan. The plan references ASTM 2924 which may not meet the requirements of Section 9.2.2. The Materials & Machines sub-team will review and provide feedback to KAI.	
24-45	GTG-F	FTG	1	9	Update Section 9.9.5 Mechanically Fastened Joints	Handout	60 Day Approval	C. Reakes presented this handout item. Added text will be italicized to draw attention. The FTG approved this item pending a 60 day review. Item 25-72 was created to update this section following the MMPDS analysis changes approved at the 46th meeting. There should be an example of bearing cutoff included.
24-46	GTG	PMP		Preliminary Material Properties Handbook	Status	Closed w no Action	This item was closed with no action during the GCC.	
24-59	GTG-F	FTG	1	9	Lot-Release Confirmation Process for Solid Rivets	Handout	Continue	C. Reakes presented this handout item. C. Reakes will investigate if the strength changes between driven and undriven rivets are directly correlated to the hole size. If confirmed, draft text will be created that allows for undriven lot-release shear data to confirm solid rivet tables.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
24-67	MTG MATSSG	1	3	Addition of 7140-T7351 Aluminum Alloy Plate	Agenda/Handout	60 Day Approval	<p>M. Snyder presented this agenda item. Bearing yield and ultimate for e/D=2.0 in the L-S will use non-regression values. Editorial changes were captured in the PDF and will be included in the final minutes.</p> <p>Following the meeting, errors in the fracture toughness table were identified and corrected. Refer to the minutes for details. This item was changed to 60-day approval for the fracture toughness table only; all other content remains approved.</p>
24-68	MTG MATSSG	1	3	Addition of 2074-T8 Aluminum Alloy Sheet	Agenda/Handout	Approved w Changes and Closed	<p>M. Snyder presented this agenda item. Editorial changes captured in the PDF and will be included in the final minutes. The name of this item was corrected to "Addition of 2074-T8 Aluminum Alloy Sheet" in the preliminary and final minute item list. The agenda and handout titles both have the correct T8 temper in their title.</p> <p>Item 25-73 was created track how many times engineering judgement was used to approve analysis results. This was specifically in response to engineering judgment usage interpreting indirect method results.</p>
24-72	ETTG	2	2	15-5PH AM Test Plan per AMS 7073	Handout	Continue	<p>N. Ramaswamy (Parker Lord) provided a status update. Plan details were included in the Handout.</p> <p>Item 25-84 was created to draft the content of Section 2.1 General for Volume II. This may include other subsections.</p>

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
24-73	MTG	FatWG	1	2	S/N Curves for 15-5PH	Agenda	Approved and Closed C. Reakes presented this agenda item. Proposal 2 was selected. Item 25-74 was created to create separate figures for Type 1 and Type 2.
24-77	GTG			9	Revisions to Table 9.2.4 Data Requirements in V1 and V2	Agenda	Approved w Changes and Closed M. Snyder presented this agenda item. Changes are captured in the PDF and will be included in the final minutes. Item 25-75 was created to discuss text for indirect method (minimum of 20 samples, but 30 recommended). Item 25-86 was created to discuss the machine requirement for data submittal in Volume II. The Materials and Machines committee will draft the item.
24-78	GTG		1	9	Test Matrix	Handout	Continue D. Hall presented this handout item. Changes were captured in the PDF. An Agenda with a proposal will be prepared for the 47th GCC.
24-82	GTG		1, 2	1	Investigation on Ultimate and Yield Stresses in Shear Equation 1.4.6.2	Status	Not Covered 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 D. Hall gave a status update.
24-87	GTG	PSG	1, 2	9	Data Requirement Table for PSG Alloys	Agenda/Handout	Continue D. Hall presented this agenda/handout item. Option 1 should be baseline method with GCC approval needed to use Option 2. Elevated/Cryogenic should be changed to Effect of Temperature. A summary of the editorial changes and the discussion are included in the Final Minutes. An Agenda with a proposal will be prepared for the 47th GCC. Battelle may circulate the numbers for discussion with entry sponsors.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
24-88	ETTG	2	5	Test Plan for Ti-6-4 per AMS7009	Status	Continue	J. Tylenda (GKN) gave a status update. GKN is making progress.
24-90	GTG	1	9	Expansion of Thickness Range Without Derived Properties	Agenda	Approved and Closed	D. Hall presented this agenda item.
24-91	ETTG	2	6	Test Plan for AM ABD900 Ni-based superalloy	Status	Continue	D. Hall gave a status update. EPRI is making progress.
24-93	GTG	1	multi	Updating Shear and Bearing Grain Directions to Test Orientations	Agenda	Continue	This agenda item was not covered. Prior to presenting, D. Tummons (Boeing) and A. Elwell (Boeing) comments on this item. Those changes will be discussed prior to the 47th Meeting. D. Tummons (Boeing), A. Elwell (Boeing), K. Wertz (AFRL), and D. Johnson (Textron) asked to be involved.
24-95	GTG	1, 2	9	Discuss NASGRO/MMPDS collaboration	Status	Continue	S. Corder (NASA) gave a status updating during the FatWG.
25-01	GTG ETTG	2	9	PCD Contents in V2 - Cleaning Machines	Status	Closed w no Action	D. Hall gave a status update. The GCC decided this is outside of MMPDS scope.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
25-02	GTG	FatWG	1, 2	9	Required Issues to Resolve to Define Fatigue Allowable	Handout	Continue	<p>D. Hall presented this handout item. Comments were captured in the PDF and will be included in the final minutes. Two new items will be created. This item (25-02) will focus on fatigue, i.e., crack initiation and failure. Item 25-81 will focus on fatigue crack growth related topics and Item 25-82 will focus on fracture toughness. The target audience for this activity is primarily companies that may not be able to develop advanced methods independently but are required by their customer to do fatigue. The objective is to reduce the burden of evaluating methods by their customers and by regulators, if that level of approval is required.</p> <p>Item 25-81 was created to focus on fatigue crack growth.</p> <p>Item 25-82 was created to focus on fracture toughness.</p>
25-09	GTG	ETTG	2	1	V2 Specimen Orientations for Fatigue Crack Growth	Handout	Continue	<p>C. Reakes presented this handout item. E399 reference will be corrected to E1823. The committee will review ISO/ASTM 52909:2022, Section A.4 and report to Battelle if their definitions are acceptable.</p>
25-10	ETTG		2	3	Test Plan for AA7050 RAM2 per AMS7070/7071	Status	Continue	<p>D. Hall gave a status update. Details will be provided in the minutes.</p> <p>Item 25-85 was created to draft the content of Section 3.1 General for Volume II. This may include other subsections.</p>

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
25-11	MTG	1	2,3,5	Updating MIL Specifications	Agenda	Approved w Changes and Closed	C. Reakes presented this agenda item. Comments from K. Kalaluhi (Boeing) and J. Rubadue were sent prior to the presentation of this item. The MTG reviewed those comments and approved the changes.	
25-16	GTG	ETTG	1, 2	9	Fracture Toughness Data Requirements	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Comments are captured in the PDF and will be included in the final minutes.
25-17	GTG-F	FTG	1	9	Lot-Release Confirmation Process for Blind Fasteners	Handout	Continue	C. Reakes presented this handout item. The FTG discussed the test procedures for lot release shear on blind fasteners. It was clarified that these tests are performed in the "as-installed" state. Based on this, the FTG agreed that shear and tensile lot release data will be enough to confirm the tables.
25-18	GTG		2		Clarification of "Width" and "Thickness" in DED Preforms	Agenda	Continue	D. Hall presented this agenda item. The GCC recommended that ASTM 52921 and AMS 7004 for better general definitions. Not all DED processes use the same deposition strategy. The definitions included in MMPDS cannot be applied to all DED processes.
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. Existing MOR curves published in MMPDS were generated by Lockheed or Bendix Corporation. The theory is not documented in the Handbook. Please contact Battelle if you are interested in documenting theory to be included in Chapter 9.
25-21	GTG-F	FTG	1		Section 9.2.4.6.4 Yield Typical Corrections	Agenda	Approved and Closed	C. Reakes presented this agenda item.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
25-24	GTG-F	FTG	1	9	Fastener Allowable Bearing Line Adjustment Procedure	Handout	Continue	<p>C. Reakes presented this handout item. The FTG agreed that the bearing line should be B-Basis due to the transition region being B-Basis. Text regarding the bearing line adjustment already existing in MMPDS should be updated B-Basis. A statement regarding B-Basis adjustment should be added to the appropriate sections. The FTG requested that future fastener tables include the equations used to generate them along with useful statistical data. Allowable should be the lower of the bearing cut-off, shear cut-off, or curve allowable. Need to discuss if "dry-pin" should be used.</p>
25-25	GTG-F	FTG	1		Modification of Fastener Analysis Method to Use Robust Methods	Agenda	Continue	<p>W. White presented this agenda. The FTG approved Option A for updating the fastener analysis method. Battelle reviewed the changes that need to be made to Section 9.7.1.4 of Volume I and decided they were more than just editorial changes. This item will be continued and updated text for this section will be presented to the FTG at the 47th MMPDS meeting for approval. Another change will be to add $\pi/4$ to P/D^2 where applicable.</p> <p>The Bayesian methods presented in Option B will be continued under Item 25-83. Further investigation is required on varying datasets.</p> <p>Item 25-76 was created to investigate changing the 10% of the curve requirement to "greater than 2% or 2ksi below the baseline curve for a span greater than 10% of the curve length".</p>

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
25-26	FTG	1		Structural Failure Load vs Ultimate Load for Fastener Analysis	Handout	Closed w no Action	C. Reakes presented this handout. The FTG agreed that the intention of ultimate strength was "separation". The definition was considered acceptable as-is.	
25-27	GTG	1		Update Subscript Notation Consistency in Section 9.7	Agenda	Approved and Closed	W. White presented this agenda item.	
25-28	GTG-F	FTG	1	Moving Fastener Data Requirements and Examples to Section 9.7 or Ch. 8	Status	Continue	C. Reakes gave a status update. The FTG stated it would be valuable to move all the sections to a common location. There was interest in also moving the Chapter 1 information to Chapter 8, making Chapter 8 the sole location for general information, tables, and guidelines for fasteners. Battelle will investigate this option.	
25-29	GTG	MATSSG	1, 2	Examples of Specimen Location in Test Plan Layouts	Handout	Continue	M. Snyder presented this handout item. It was requested that an example of what NOT to do be included as well. Battelle will work with interested parties to develop figures illustrating acceptable and unacceptable layouts.	
25-30	GTG	ETTG	1, 2	9	Legacy Alloy Review B/D-Basis Adjustment with A/C-Basis Adjustment	Agenda/Handout	Approved w Changes and Closed	D. Hall presented this agenda item. Editorial changes are captured in the PDF and will be included in the final minutes.
25-31	GTG		2		OSAT Changes for V2 10.2	Handout	60 Day Approval	M. Snyder presented this handout item. The committee decided to approve this handout under a 60 Day Approval. Editorial comments were captured in the PDF and will be included in the final minutes.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
25-32	GTG	1, 2		Investigate Use of Total Strain at Failure in V1 and V2	Status	Not Covered	This item was not covered due to time constraints. C. Reakes reviewed Volume 1 data and found that Total Strain at Failure data is not included for any entry in Chapters 2-7. An item will be drafted to either remove references to total strain at failure from the handbook or close this item with no action.	
25-33	GTG	2		Requirements to Include D-Basis without C-Basis for V2	Handout	Continue	D. Hall presented this agenda item. The Statistics Working Group will continue to work on this prior to the 47th Meeting.	
25-34	GTG	ETT	2	9	Guidelines for a Secondary Supplier Upgrading Basis of V2 Tables	Status	Not Covered	This item was not covered due to time constraints.
25-35	GTG		1		Allowing B's without A's in V1	Handout	Closed w no Action	This item was closed with no action during the GCC. MMPDS will publish B-Basis allowables only when A-Basis allowables can be published.
25-36	GTG	ETT	2		Definition of Preform in V2	Agenda	Continue	C. Reakes presented this agenda item. The ETTG will determine if a common definition for preform in Volume II is acceptable or if each AM process should have its own definition related to AM product prior to the final part.
25-37	GTG	ETT	2	9	Investigate Relationship of Unique Chemistry in Relation to Powder Heats	Status	Not Covered	This item was not covered.
25-38	GTG		1		MMPDS Definition of Metal Matrix Alloys	Status	Not Covered	This item was not covered due to time constraints.
25-39	GTG		1, 2		Recommended Best Practice Test Conditions for E111	Agenda	Continue	C. Reakes presented this agenda item. E111 states there "should" be triplicate tests. It is not a requirement.
25-40	GTG	ETT	2		V2 Combinability of Multiple Laser Systems	Status	Closed w no Action	W. White gave a status update.
25-41	MTG		1		Consider How to Incorporate Rod Test Orientations for Shear Orientations	Status	Closed w no Action	C. Reakes gave a status update. D. Tummons (Boeing) noted that for smaller rod you will not get C and R orientations.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
25-42	GTG	1	1	Update Section 1.4.6 References to "Amsler" for ASTM B769	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Editorial changes are captured in the PDF and will be included in the final minutes.
25-43	GTG	ETT	1	Rounding Method when the A-Basis Value Equals the B-Basis Value	Agenda	Closed w no Action	D. Hall presented this agenda item. The GCC agreed no changes to the guidelines are needed at this time.
25-44	MTG	1		Static vs. Dynamic Modulus Identification in Older Alloys	Agenda	Continue	D. Hall presented this agenda item. Changes captured in the PDF and will be included in the final minutes. Changed to continue at the GCC.
25-45	GTG-F	FTG	1	Corrections to Equation 9.7.1.4(b)	Agenda	Approved and Closed	W. White presented this agenda item.
25-46	GTG	1, 2	9	Update Creep Data Requirements to Vary Stress	Handout	Continue	C. Reakes presented this handout item in the PSG.
25-47	MTG	1	3	Stabilization of AMS 5933 HSL 180	Consent Agenda	Approved and Closed	Battelle received no comments on the consent agenda. It was approved in the GCC. M. Snyder presented this agenda item.
25-48	GTG	1, 2	9	Clarify Correlation Requirements for Indirect Method	Agenda	Approved and Closed	Item 25-77 was created to provide guidance that informs statistical/engineering judgement for cases when the data does not meet Spearman's rank correlation threshold.
25-49	GTG	ETT	1, 2	Requirements for S-Basis for Fracture Toughness	Agenda	Continue	D. Hall presented this agenda item. Will merge T99 and COV items from 25-16 into this item.
25-50	MTG	1	3	Addition of A/B-Basis for 2050-T84 Plate for 7-8 inch Thickness	Agenda	Approved and Closed	M. Snyder presented this agenda item.
25-51	MTG	1	2	Editorial Corrections	Consent Agenda	Approved and Closed	Battelle received no comments on the consent agenda. It was approved in the GCC.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
25-52	GTG	2	1	Volume II, add Figure 9.2.3.1(a) to Ch. 1	Agenda	Approved w Changes and Closed	D. Hall presented this agenda item. Changes captured in the PDF and will be included in the final minutes.	
25-53	MTG	1	6	Clarification of 718 Bar Tables	Agenda	Continue	D. Hall presented this agenda item. Editorially change "Rolled and Forged Bar" to "Rolled Bar and Forged Bar".	
25-54	MTG	1	3	Stabilization of AMS 4456 for 7037-T7452 Hand Forgings	Consent Agenda	Approved and Closed	Battelle received no comments on the consent agenda. It was approved in the GCC.	
25-55	MTG	1	3	Stabilization of AMS 4373 for 2017 Aluminum Alloy	Consent Agenda	Approved and Closed	Battelle received no comments on the consent agenda. It was approved in the GCC.	
25-56	FTG	1	8	FTG Long Term Planning	Status	Closed w no Action	In the short term the FTG will focus on approving the Lot-Release confirmation items. Following the approval of those items, the FTG will focus on collecting lot release confirmation data and reinserting tables removed by the sunset clause for "no data submitted".	
25-57	GTG	2	9	Modifications to Section 9.2.4, V2	Agenda	Approved and Closed	D. Hall presented this agenda item.	
25-58	GTG	ETT	2	9	Radiographic Acceptance Criteria in Additively Manufactured Material Specifications	Handout	Continue	A. Yohannes (FAA) gave a status update. Regulator input is requested on what changes might be needed for Section 9.2.2 in both Volumes.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
25-59	ETTG MATSSG	2	5	Sections 5.1 and 5.4.1 for Volume II	Handout	60 Day Approval	D. Hall presented this handout item. MATSSG and ETTG provided editorial comments which are captured in the PDF and will be included in the final minutes.. Replace "emerging technologies" with "process intensive technologies" throughout. Item 25-78 was created to discuss changing specimen thickness to specimen width Item 25-79 was created to update section 5.4.1 in Volume I Item 25-80 was created to update Section 5.4.1 in Volume II
25-60	GCC	1		Consent Agenda for the 46th GCC	Agenda	Approved and Closed	All items listed in the Consent Agenda were approved and closed.
25-61	MTG	1	2	PH13-8Mo per AMS 5629/H1100	Present.	Continue	J. Ahn (KPCM) gave a presentation. The name of this item has been updated to PH13-8Mo per AMS5629/H1100.
25-62	MTG	1	2	New Alloy - AA2050-T62	Present.	Continue	M. Niedzinski (Constellium) gave a presentation summarizing the performance of a new alloy.
25-63	ETTG	2	3	Test Plan for AMS 7030	Status	Continue	M. Casey (Parker Lord) provided a status update.
25-64		2	6	Test Plan for Haynes 230 MMC with Carbon Nanotubes	Status	New	This item was created after the Spring SAE AMS Additive Manufacturing Committee meeting. D. hall gave a status update.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
25-65	GTG	1, 2	9	Determination of %Elongation Lot-Release Limits	Handout	Closed w no Action	D. Hall presented this handout item. The number was assigned to document the discussion in the Minutes. This topic was discussed by the SAE AMS Conventional Metals Committee which was occurring the same week. The existing guidelines for MMPDS and SAE specifications support rejecting the 12% value and set elongation at 15%, the minimum valid test result. The GCC and SAE AMS Conventional Metals Committee do not support using engineering judgment to exclude low test results.
25-66	MTG	1	3	Fcy Changes for 7075-T76511 Aluminum Alloy Extrusions		New	This item was created at the 46th GCC during discussion of Item 20-10. Questions about the analysis could not be answered at that time.
25-67	ETTG	2	5	Mechanical Properties of AMS 7004 with Substrate Material and/or Heat Affected Zone		New	This Item was created at the 46th GCC during discussion of Item 23-48. The properties approved for the AMS 7004 are based strictly on bulk material. Gage sections did not include any substrate or heat affected zone.
25-68	GTG	ETT	2	9	Tabulated Statistical Information for Elastic and Physical Properties in Volume II	New	This item was created at the 46th GCC during discussion of Item 23-48. The GCC requested that appropriate statistical information about the data set should be included for the Elastic and Physical Properties sections of tables published in Volume II. The Table format is defined in Section 9.5.9 that was approved in Item 25-12 at the 45th GCC.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
25-69	GTG	MTG	1	9	Guidelines for Micrographs within MMPDS, Volume I		New	This item was created at the 46th GCC during discussion of Item 23-48. The GCC requested that each material allowable entry advise Handbook users that micrographs are available as a database. The GCC also requested that representative micrographs be included in the eBook version of MMPDS, Volume II, not just through a database subscription. The guideline would become Recommended for Volume I.
25-70	GTG	ETTG	2	9	Guidelines for Micrographs within MMPDS, Volume II		New	This item was created at the 46th GCC during discussion of Item 23-48. The GCC requested that each material allowable entry advise Handbook users that micrographs are available as a database. The GCC also requested that representative micrographs be included in the eBook version of MMPDS, Volume II, not just through a database subscription. The guideline would become Mandatory for Volume II.
25-71	GTG	ETTG	2	9	Investigate Statistical Acceptance Test Methods		New	This item was created at the 46th GCC during the discussion of Item 24-17. S. Cordner (NASA) has information about acceptance approaches used on the Space Shuttle Main Fuel Trunk that may suitable options in addition to the MACT (previously known as the OSAT).
25-72	GTG	FTG	1	9	Review and Update Section 9.9.5 Mechanically Fastened Joints		New	This item was created at the 46th GCC during the discussion of Item 24-45. That item added a warning that methods were considered out of date and should be used with caution. This item will develop improved guidelines.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
25-73	GTG	1, 2		Engineering Judgment Utilization		New	This item was created at the 46th GCC during the discussion of Item 24-68. The GCC requested that Battelle specifically track times that engineering judgment is used to justify a decision so that frequent recurrences can trigger creation of a new guideline when appropriate. The first status update will include guidance on how many times a scenario repeats before a guideline is justified.	
25-74	MTG	1	2	S/N Curves for Type 1 and Type 2 15-5PH Steel		New	This item was created at the 46th GCC during the discussion of Item 24-73. The GCC requested that separate curves be proposed for Type 1 and Type 2 15-5PH.	
25-75	GTG	1, 2	9	Indirect Methods Sampling Guidance		New	This item was created at the 46th GCC during the discussion of Item 24-77. The GCC recommended that text be added to clarify that 20 specimens is Mandatory but that 30 samples is Strongly Recommended (preferred?).	
25-76	GTG	FTG	1	9	Acceptance Margins for Fastener Analysis		New	This item was created at the 46th GCC during the discussion of Item 25-25. This item will investigate changing the 10% curve requirement to "greater than 2% or 2ksi below the baseline curve for a span of greater than 10% of the curve length."
25-77	GTG	1, 2	9	Consequences of Spearman's Rank Correlation Threshold Violations		New	This item was created at the 46th GCC during the discussion of Item 25-48. The GCC requested guidance on suitable next steps when the data correlation does not meet the recommended +0.5 threshold.	
25-78	GTG	MTG	1, 2	9	Influence of Specimen Thickness to Specimen Width on Material Allowables		New	This item was created at the 46th GCC during the discussion of Item 25-59. There are questions about what range of thickness/width ratios are appropriate.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description	
25-79	MTG	1	5	Revisions to Section 5.4.1 of Volumes I		New	This item was created at the 46th GCC during the discussion of Item 25-59. The text of 5.4.1 from Volume I needs to be reviewed and revised using the best currently available knowledge. From a quick review, the current text of 5.4.1 appears to have been unchanged for more than 40 years. The MTG will review this content at the 47th GCC so that an Agenda Item can be prepared for the GTG to approve at the 48th GCC.	
25-80	ETTG	2	5	Revisions to Section 5.4.1 of Volumes II		New	This item was created at the 46th GCC during the discussion of Item 25-59. The text of 5.4.1 from Volume I was used to first version of the same section for Volume II. The text needs to be reviewed and revised using the best currently available knowledge. From a quick review, the current text of 5.4.1 appears to have been unchanged for more than 40 years. The ETTG will review this content at the 47th GCC so that an Agenda Item can be prepared for the GTG to approve at the 48th GCC.	
25-81	GTG	FATWG	1, 2	9	Required Issues to Resolve to Define FCGR Allowables		New	This item was created at the 46th GCC during the discussion of Item 25-02. Topics related to fatigue crack growth will tracked in this item. Specific topics will be handled in individual items.
25-82	GTG	FatWG	1, 2	9	Required Issues to Resolve to Define Fracture Toughness Allowables		New	This item was created at the 46th GCC during the discussion of Item 25-02. Topics related to fracture toughness will tracked in this item. Specific topics will be handled in individual items.

46th MMPDS Coordination Meeting Final Minutes

SORTED BY ITEM NUMBER

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
25-83	GTG	1, 2		Investigate uses of Bayesian Statistics		New	This item was created at the 46th GCC. Bayesian statistics was mentioned during one FTG item and during FatWG discussions. M. Gorelik (FAA) requested that Battelle explore possible uses of this relatively new branch of statistics
25-84	GTG	ETT	2	2	Alloy Introduction - Section 2.1	New	This item was created after the 46th GCC meeting. A new Introduction section will be needed when data is submitted for 15-5PH.
25-85	GTG	ETT	2	2	Alloy Introduction - Section 3.1	New	This item was created after the 46th GCC meeting. A new Introduction section will be needed when data is submitted for 6061 RAM2, 7050 RAM2, or AMS 7030.
25-86	GTG			Machine Requirement for Volume II		New	This item was created at the 46th GCC during the discussion of Item 24-77. The machine requirement for data submittal for Volume II is a limiting factor for some suppliers. As data become available, the Materials and Machines committee will re-evaluate the requirement.