



Minutes of the 41st MMPDS Coordination Meeting

Held in:

Santa Ana, California
March 27 - 31, 2023

Compiled by:

Battelle
505 King Avenue
Columbus, OH 43201-2693

Prepared for:

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Atlantic City, NJ 08405

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41st MMPDS Coordination Meeting

Introduction of Attendees

A list of 41st Coordination Meeting attendees, indicating the meetings they attended, has been incorporated into this document.

Approval of the 40th MMPDS Meeting Minutes

All Items Approved. No comments were received.

41st MMPDS Coordination Meeting

Vice-Chairman's Remarks - Walter Sippel

Thanks to everyone who participated in the 41st MMPDS General Coordination Committee meetings held in Santa Ana, CA between March 27 and March 31. The Battelle team did an excellent job of preparing the Agenda, Handout, and meeting arrangements to keep the program moving forward.

As described in the Foreword to MMPDS-17, the standard review period for Final Minutes is 30 days after posting. 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 within the review period, the item is formally approved. If negative technical comments are received before the deadline, the item will be held open for discussion at the 42nd MMPDS GCC meeting.

While great progress has been made in preparing MMPDS, Volume II, the GCC voted 28-12 to continue rather than approve the item. One objection was that no item had ever been formally approved to define what must be completed to approve the new volume. To address that concern, Item 23-23: Required Content to Publish Volume II was created for 60-day approval. If no technical objections are received before July 29, Battelle will have a GCC approved checklist for publishing the second volume without material allowable entries. A second item was created at the meeting detailing what must be completed before entries can be approved. At this time, no data package has been submitted that would be delayed by this sequence of events.

A second 60-day item was created to resolve some confusion about voting rules for GCC meetings. The Bylaws as posted do not specify how to count abstaining votes when determining the results. Battelle investigated Robert's Rules of Order, which say that abstentions are not to be counted. To clarify this for the future, please review Item 23-26: Clarification of MMPDS Voting Procedures. Please send technical objections to Battelle before July 29.

The 42nd MMPDS is scheduled to take place in Hyannis Port, MA from August 28 through September 1. We look forward to seeing you there.

Thanks again for attending the 41st MMPDS GCC meetings. Your commitment, dedication, and donation of your valuable time to maintain MMPDS is most appreciated. I look forward to seeing everyone in Santa Ana.

Best Regards,

Walter Sippel

MMPDS Chairman

Aerospace Engineer, Materials and Structural Properties Section, AIR-622

Technical Policy Branch, AIR-620



SUMMARIES

41st MMPDS Meeting Attendance						March 27th						March 28th		March 29th		March 30th	March 31st
Last Name	First Name	Company	Email	Phone Number	Committee Chair, Co-Chair, Vice Chair	ISG	GSG	ISG/GSG	FTG	ASG	MATSSG	ETTg	FatWG	GTG	PSG	MTG	GCC
Anderegg	David	Defense Logistics Agency	david.anderegg@dla.mil	804-279-1678			x	x				x		x	x	x	A
Anderson	Neil	The Boeing Company	neil.o.anderson@boeing.com			x		x	x			x		x	x	x	T
Avila, Garcia	Matias	ATI Materials	neil.o.anderson@boeing.com			x		x				x		x		x	T
Baker	Andrew	Spirit Aero	j.andrew.baker@spiritaero.com			x		x	x	x		x		x	x	x	E
Bakuckas	John	Federal Aviation Administration	john.bakuckas@faa.gov	609-485-4784								x	x	x		x	N
Barnes	Baxter	NASA	baxter.w.barnes@nasa.gov					x				x		x		x	D
Barnett	Roger	Ansys	roger.barnett@ansys.com									x		x		x	A
Bassi	Simarpaul	The Boeing Company	simarpaul.s.bassi@boeing.com									x		x	x	x	N
Bennett	Jay	NASA	jay.e.bennett@nasa.gov				x	x	x			x		x	x	x	C
Bennett	Russell	The Boeing Company	russell.p.bennett@boeing.com			x		x		x		x		x	x	x	E
Bihlman	Bill	Aerolytics/SAE	bihlman@aerolyticsllc.com									x					
Bittner	Peter	Constellium	peter.bittner@constellium.com		MATSSG	x		x				x		x	x	x	W
Bourges	Laurent	LISI Aerospace	laurent.bourges@lisi-group.com						x								A
Boyson	Tim	Collins Aerospace	Timothy.Boysen2@collins.com									x					S
Bray	Gary	Westmoreland	gary.bray@wmtr.com			x		x				x	x	x	x	x	
Bryant	Nathan					x		x									
Cho	Junghyun	TESTCOR	jhcho@testcor.co.kr			x			x					x	x		N
Chung	Pui See	Blue Origin	pchung@blueorigin.com														O
Cordner	Sam	NASA	samuel.m.cordner@nasa.gov		ETTg, CD & M&M		x	x				x		x	x	x	T
Coronado	Peter	The Boeing Company	peter.a.coronado@boeing.com			x		x	x			x		x	x	x	
Crill	Matthew	The Boeing Company	matthew.j.crill@boeing.com		ISG (Vice Chair) C&Q	x		x		x		x		x		x	C
Crisler	Elizabeth	Textron Aviation (Cessna)	ecrisler@txtav.com			x		x	x			x		x		x	A
Cunha	Mauricio	Embraer	mccunha@embraer.com.br			x		x	x	x		x		x	x	x	P
Daley	Nancy	Rocketdyne	nancy.daley@rocket.com									x	x	x	x	x	T
Dux	Tiffany	Howmet Aerospace	tiffany.dux@howmet.com			x								x		x	U
Elwell	Abram	The Boeing Company	abram.b.elwell@boeing.com			x				x		x	x	x		x	R
Flanary	Austin	Ansys	austin.flanary@ansys.com			x		x		x	x	x		x	x	x	E
Giblin	Tinsae	The Boeing Company	tinsae.k.giblin@boeing.com			x		x	x			x		x		x	D
Gill	Joseph	Collins Aerospace	joseph.gill@collins.com			x		x	x			x		x	x	x	
Goodman	Jay	Blue Origin	jayg001@yahoo.com											x		x	
Gorelik	Michael	Federal Aviation Administration	michael.gorelik@faa.gov		ETTg, CD		x	x				x		x		x	
Gruen	Brian	Battelle Memorial Institute	gruenb@battelle.org								x						
Grylls	Richard	Beehive Industries	richard.grylls@beehiveind.com									x					
Gurrola	Bob	Howmet Aerospace	bob.gurrola@howmet.com			x		x	x					x			
Hahn	Michael	Northrop Grumman	michael.t.hahn@ngc.com		ASG	x		x	x	x		x		x		x	
Hall	Doug	Battelle Memorial Institute	halld@battelle.org		ETTg, DGA	x		x	x		x	x	x	x	x	x	
Hall	Gary	Bell Helicopter	gdhall@bellflight.com									x		x		x	
Haynes	Kyle	Norsk Titanium	kyle.haynes@norsktitanium.com			x		x				x	x	x			
James	Mark	Federal Aviation Administration	mark.james@faa.gov				x	x	x	x				x		x	
Johnson	Carl	Norsk Titanium	carl.johnson@norsktitanium.com														
Johnson	Chloe	Elementum3D	chloe@elementum3d.com			x		x				x		x			
Johnson	Dwight	Textron Aviation (Cessna)	djohnson01@txtav.com			x					x						
Jones	Lindsay	The Boeing Company	lindsay.l.jones@boeing.com						x					x			
Kalaluhi	Kaydee	The Boeing Company	kaydee.g.kalaluhi@boeing.com													x	
Kane	Michael	US Army	michael.j.kane56.civ@army.mil				x	x						x		x	
Kasami	Akiko	Mitsubishi Heavy Industries Ltd	akiko.kasami.fy@mhi.com								x	x				x	
Kim	Sangshik	TESTCOR	sskim1226@gmail.com			x		x	x			x		x		x	
Kim	Yeajin	Korea Aerospace Industries	yeajin.kim@koreaero.com			x		x	x	x		x		x		x	
Krile	Bob	Battelle Memorial Institute	krile@battelle.org		GTG			x	x			x		x			

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Kusner	Robert	Materion	robert.kusner@materion.com			x		x				x		x	x	x	
Kusuhara	Hideto	IHI Corporation	kusuhara0375@ihi-g.com			x		x		x		x	x	x	x	x	
Kwon	Yong-Nam	Korea Institute of Materials Science	kyn1740@kims.re.kr			x		x	x			x		x	x	x	
Lamas	Jose Eduardo G	Embraer	jose.lamas@embraer.com.br			x		x								x	
Lamb	Justin	Universal Alloy	justin.lamb@universalalloy.com			x		x				x		x		x	
Larsen	Hilde Løken	Norsk Titanium	hilde.loken.larsen@norsktitanium.no									x		x			
Leicht	Douglas	Parker LORD	douglas.leicht@parker.com											x		x	
Liu	George	US Army	george.g.liu.civ@army.mil				x	x	x			x		x		x	
Mader	Morgan	Joby Aviation	morgan.mader@joby.aero									x					
Mantione	John	ATI Materials	john.mantione@atimaterials.com			x		x			x	x		x		x	
Maul	David	Northrop Grumman	david.maul@ngc.com			x				x		x		x		x	
McGill	Matthew	Parker LORD	matthew.mcgill@parker.com			x						x					
McVicker	Nathaniel	Blue Origin	nmcvicker@blueorigin.com											x		x	
Mendivil	Teresa	Supernal	teresa.mendivil@supernal.aero			x		x	x			x	x	x		x	
Moriniere	Freddy	Ansys	Freddy.Moriniere@ansys.com											x			
Muldoon	Ariel	The Boeing Company	ariel.c.muldoon@boeing.com						x					x			
Nagao	Kazuki	Honda R&D Americas, Inc.	knagao@na.honda.com			x		x				x		x	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	
O'Brien	Matthew	Northrop Grumman	matthew.o'brien@ngc.com			x		x	x		x	x		x		x	
Oh	Sukkeun	Korea Aerospace Industries	sukkeun.oh@korea aero.com			x		x		x	x	x		x		x	
Olsen	Kirk	Parker LORD	kirk.olsen@parker.com			x		x	x			x	x	x	x	x	
Omura	Ryo	Mitsubishi Heavy Industries Ltd	ryo.omura.jq@mhi.com									x		x	x	x	
Park	Ju	Korea Aerospace Industries	jooyoung.park@korea aero.com			x		x		x	x	x		x		x	
Park	Seoshin	Korea Aerospace Industries	seopark@korea aero.com			x		x	x	x		x		x		x	
Phillips	Brandon	US Army	brandon.j.phillips24.civ@army.mil				x	x	x			x		x			
Piche	Marie	Bombardier Aerospace	marie.piche@aero.bombardier.com			x		x	x	x		x		x		x	
Raposo	Humberto	Carpenter Technology	hraposo@cartech.com									x				x	
Reakes	Clay	Battelle Memorial Institute	reakes@battelle.org		FTG				x			x	x	x	x	x	
Riveria	Jesse	Supernal	jesse.rivera@supernal.aero			x		x	x	x	x	x	x	x			
Rokni	Michael	Senior Aerospace SSP	mrokni@seniorssp.com									x					
Rosenblatt	Dana	The Boeing Company	dana.m.rosenblatt@boeing.com													x	
Rubadue	Jana	Battelle Memorial Institute	rubadue@battelle.org			x		x				x		x		x	
Saadi	Abdelhai	The Boeing Company	abdelhai.saadi@boeing.com					x				x				x	
Sabo	Ken															x	
Scalf	Cyndee	Battelle Memorial Institute	scalf@battelle.org			x		x									
Scheuring	Jason	Kaiser Aluminum	jason.scheuring@kaiseraluminum.com			x		x			x	x		x		x	
Shah	Jiten	Kaiser Aluminum	jiten@pda-llc.com			x		x									
Shannon	Carinne	Battelle Memorial Institute	shannon@battelle.org		MTG	x		x		x	x	x	x	x	x	x	
Shepard	Michael	3D Systems	michael.shepard@3dsystems.com									x					
Shinde	Sachin	Blue Origin	sshinde@blueorigin.com			x								x	x	x	
Shivers	Brian	US Air Force	brian.shivers.1@us.af.mil						x								
Sippel	Walter	Federal Aviation Administration	walter.sippel@faa.gov		GSG (Chair)		x	x				x		x	x	x	
Smith	Ryan	GE Additive	ryan.smith@ge.com									x		x		x	
Snyder	Matthew													x			
Sodouri	Pedrum	Norsk Titanium	pedrum.sodouri@nikon.com		ISG (Chair), M&M												
Son	Jinil	TESTCOR	jison@testcor.co.kr			x		x	x			x		x		x	
Spain	David	Supernal	dspain@supernal.aero			x		x			x	x	x	x		x	
Spiegelberg	Bill	Materion	william.spiegelberg@materion.com											x		x	

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Stamp	Robin	Velo3D	robin.stamp@velo3d.com														
Steele	Leslie	Collins Aerospace	Leslie.Steele@collins.com		PSG	x		x	x			x		x	x	x	
Steevens	Andrew	The Boeing Company	andrew.j.steevens@boeing.com		DGA	x		x		x		x		x		x	
Stepanova	Mariia	Norsk Titanium	mariia.stepanova@norsktitanium.com			x		x				x	x	x		x	
Stonaker	Kevin	Federal Aviation Administration	kevin.stonaker@faa.gov				x	x				x		x		x	
Sutton	Adam	Lockheed Martin	adam.c.sutton@lmco.com									x		x		x	
Suzukake	Shinya	Mitsubishi Heavy Industries Ltd	Shinya.suzukake.af@mhi.com									x					
Thomas	Bruce	Bombardier Aerospace	bruce.thomas@aero.bombardier.com		ASG	x		x	x	x		x		x	x	x	
Thompson	Steven	US Air Force	steven.thompson.21@us.af.mil		MTG		x	x	x		x	x	x	x	x	x	
Tian	Yongzhe	Federal Aviation Administration	yongzhe.tian@faa.gov				x	x	x			x		x		x	
Torgerson	Tyler	Bell Flight	ttorgerson@bellflight.com							x		x		x	x	x	
Toscano	Luis	Embraer	luis.toscano@embraer.com.br						x								
Tummons	David	The Boeing Company	david.tummons@boeing.com			x		x		x		x		x	x	x	
Ventura	Kyle	Northrop Grumman	kyle.ventura@ngc.com			x		x		x		x		x		x	
Vogel	Bret	Textron Aviation (Cessna)	bvogel@txtav.com		WWG			x	x	x		x		x		x	
Warden	Jim	WIAM Gmbh	jimw@jpwinternational.com			x		x				x		x	x	x	
Wertz	Katelun	US Air Force	katelun.wertz@us.af.mil				x	x				x		x	x	x	
Wheelock	Paul	Rolls-Royce	paul.wheelock@rolls-royce.com		PSG	x		x	x	x		x		x	x	x	
White	Will	Battelle Memorial Institute	whitew@battelle.org			x		x	x			x		x		x	
Womack	Jamie	NASA	jamie.s.womack@nasa.gov				x	x		x		x		x	x	x	
Yavari	Parviz	Northrop Grumman				x								x			
Yohannes	Aklilu	Federal Aviation Administration	aklilu.yohannes@faa.gov		C&Q		x	x				x		x		x	
Young	Bruce	Battelle Memorial Institute	youngba@battelle.org		C&Q									x			

41st MMPDS Coordination Meeting

New Item Numbers Assigned in 2023	
23-01	MMPDS-2023, Volume II
23-02	Update Table for 7140-T7451 (AMS4401)
23-03	Order of Shear Values When Test Orientations are Shown
23-04	V2, 10.3 Overview of Qualification
23-05	Corrections to 7075-T6X Bare and Clad Plate
23-06	Corrections to 7075-T7351 Plate per AMS4078
23-07	Corrections to 7075-T73XX Extrusions per AMS4617
23-08	Corrections to 7075-T76XX Extrusions per AMS4317
23-09	Stabilization of AMS6925 and AMS6926 for Ti-13V-11Cr-3Al Bar
23-10	Revision to Figure 9.5.1.2 (b) - Regression Flowchart
23-11	Section 10.6 Consensus Standards
23-12	V2 Column Reference Clean-Up
23-13	Revision of Figures for Legacy Alloys
23-14	Revision of Ti-6Al-4V Die Forging Property Table
23-15	Stabilization of AMS5659/H900 and H925 for 15Cr - 4.5Ni - 0.30Cb (Nb) Bars, Wire, Forgings, Rings, and Extrusions
23-16	2050 SCC Test Data
23-17	Clarification of Legacy Guidelines for Derived Properties in V1 & V2
23-18	QPL for SAE AMS Metals
23-19	Review of 9.7 for Volume II
23-20	Section 9.8 & 9.9 for Volume II
23-21	Correction to 7075 Bar Diameter Table 3.7.10.0(d)
23-22	6061-RAM2 per AMS 7054

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New Item Numbers Assigned in 2023

23-23	Analysis of AM data for Material Specification
23-24	Required Content to Publish Volume II
23-25	Additional Content Required to Publish Material Allowable Entries in Volume II
23-26	Clarification of MMPDS Voting Procedures
23-27	Modification of Sunset Procedures for Swaged Collar / Threaded Fasteners
23-28	Modification of Sunset Procedures for Solid Rivets
23-29	Modification of Sunset Procedures for Blind Fasteners
23-30	Minimum Spec Content Requirements for Fasteners (like 9.2.2)
23-31	Confirm SCC Resistance Caution for 2024-T42, T62 Plate
23-32	Clarify Terms "reference" and "derived" in Indirect Method
23-33	FCP Variable Load Analysis Methods
23-34	Role and Documentation of Specimen Location Used in Indirect Analysis
23-35	Guideline to Reduce Compression, Shear, and Bearing
23-36	Ch. 8 A-Basis Static Allowables Requirement for Fastener Fatigue Figures

41st MMPDS Coordination Meeting Final Minutes

CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
12-105	GTG-F	FTG	1	9	Modification to the Sunset Criteria Procedures	On Hold	Closed w no Action	Closed to open 3 new items, one each for solid, blind, and threaded fasteners. A section like 9.2.2 defining Spec content requirements will be drafted for discussion at the Fall meeting per item 23-34.
17-28	GTG-F	FTG	1	9	Consideration of Origin in Multiple Regression Analysis for Joint Allowables	Agenda/ Handout	Approved w Changes and Closed	W. White presented this item. The final version will be shown in the minutes.
18-08	MTG		1	6	718 Investment Cast (AMS5383) Addition of Tensile A/B-basis and Elevated Temperature	Agenda	Closed w no Action	C. Shannon presented this item. The GCC voted to close with no action.
18-10	GTG	MATSSG	1	9	Data Requirements for Forgings	Agenda	Approved w Changes and Closed	C. Shannon presented this item. Changes were to remove "consistant shape", change cross-sectional area" to "section thickness based on maximum inscribed circle" and change "prolongation" to "specimen".
18-13	GTG		1	9	Guidelines for Exclusion of Low Secondary Property Test Values	Status	Closed w no Action	W. White presented this item. Proposed closed with no action.
19-42	MTG		1	3	Confirmation of Design Properties of AMS 4202 for 7475-T7351 Aluminum Alloy Plate	Agenda	Approved and Closed	C. Shannon presented this item. Option 2, to update entire table is approved (20 for , 2 against)
20-09	MTG		1	3	Expansion of Thickness Range for 6061-T651 Plate	Status	Closed w no Action	C. Shannon gave a status report. P. Bittner (Constellium) noted that there is no longer an interest in expanding the specification thickness range.
21-01	GTG	ETTG	2	1	Foreword to Volume II	Agenda	Approved and Closed	The Foreword that the GSG has written will be included in the Final Minutes.
21-13	MTG		1	5	Review of Section 5.5.3 Ti-10V-2Fe-3Al Comments and Properties	Agenda	Approved w Changes and Closed	C. Shannon presented this item. "5 in" will be reduced to "4in"
21-43	GTG		1, 2	9	MMPDS use of ASTM E3076 for Slope Determination	Agenda	Approved w Changes and Closed	C. Shannon presented this item. Changes: In Table 9.1.2 add to Analysis methods 9.8.4.1 and 9.8.4.3. Strike second "value" (after table). In Best Linear Fit versus Reported Modulus - add "ASTM E111 modulus" before "test records". Before 9.8.4.1.3 - Pass and Warn flags - change to "the 10% metric provides a PASS or FAIL flag." (make PASS, WARN, and FAIL all "Pass", "Warn",,...). In 9.8.4.1.2 TH slope should be reference modulus instead. Fix table heading also. Slope change to Linear Slope. Minutes to document question about how Ti and other materials with modulus range should be handled.
22-23	GTG		1, 2		Clarify use of "Alloy" and "Product"	Status	Closed w no Action	C. Shannon led discussion of this item. Proposed closed with no action. Battelle will update editorially.
22-25	GTG		1	9	Clarify Legacy Alloy Review Guidelines	Agenda	Approved w Changes and Closed	C. Shannon presented this item. Several discussions. Changes recommended for decrease will be shown in minutes.
22-28	MTG	ASG	1	3	Addition of SCC Resistance Caution	Agenda	Approved w Changes and Closed	C. Shannon presented this item. Change proposed note to delete "and further showing." Note would be applied to Temper.

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CLOSED AGENDA ITEMS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
22-39	GTG-F	FTG	1	1	Clarification of Joint Table Applications in Chapter 1	Agenda	Approved w Changes and Closed	Final version will be shown in the minutes.
22-41	GTG-F	FTG	1	9	Investigate usage of terms A-Basis and B-Basis in Chapter 8	Agenda	Closed w no Action	This item is closed with no action. A new item will be opened when the information is available.
22-47	MTG		1	3	Update Introductory Section for 2014 Alloy	Agenda	Closed w no Action	C. Shannon presented this item. It was agreed to close with no action.
22-49	GTG	ETTG	2	1	Review of Section 1.4.12 Fracture for V2	Agenda	Closed w no Action	This item is closed with no action. A new item will be opened when the information is available.
22-50	GTG		1	1	Addition of Sections on Thermal Properties and Influence Factors to Chapter 1 V1.	Agenda	Approved w Changes and Closed	D. Hall presented this item. Change in 1.4.16 - remove feedstock chemistry variation and machine-to machine variation for V1. Replace uni-bi-triaxial with uniaxial and multi-axial
22-52	GTG		1, 2	9	New Indirect Method Continuing Improvements	Agenda	Approved and Closed	B. Krile presented this item. A sentence was added describing regression. L. Crisler (Textron) gave a demonstration of the new indirect tool. Create new item to standardize terminology for "derived" and "reference". Create a new item to document specimen location and how that may be used in analysis.
22-55	GTG		1, 2	9	Examples to Clarify Table 9.4.2.1	Status	Closed w no Action	Table 9.4.2.1 is no longer in MMPDS (should be table 9.2.4.1)
23-02	MTG		1	3	Update Table for 7140-T7451 (AMS4401)	Agenda	Approved and Closed	C. Shannon presented this item.
23-03	GTG		1	1, 3	Order of Shear Values When Test Orientations are Shown	Agenda	Approved w Changes and Closed	C. Shannon presented this item. Editorial changes to figure for readability.
23-05	MTG		1	3	Corrections to 7075-T651 Bare Plate per AMS4045, 7075-T651 Clad Plate per AMS4040, & 7075-T62 Clad Plate per AMS4048	Agenda	Approved and Closed	C. Shannon presented this item.
23-06	MTG		1	3	Corrections to 7075-T7351 Plate per AMS4078	Agenda	Approved and Closed	C. Shannon presented this item.
23-07	MTG		1	3	Corrections to 7075-T73XX Extrusions per AMS4617	Agenda	Approved and Closed	C. Shannon presented this item.
23-08	MTG		1	3	Corrections to 7075-T76XX Extrusions per AMS4317	Agenda	Approved and Closed	C. Shannon presented this item.
23-09	MTG		1	5	Stabilization of AMS6925 and AMS6926 for Ti-13V-11Cr-3Al Bar	Agenda	Approved and Closed	C. Shannon presented this item.
23-13	GTG		1, 2	9	Revision of Figures for Legacy Alloys	Agenda	Approved w Changes and Closed	C. Shannon presented this item. In text after General Coord.. put "(GCC)" . Fig (b), add section number in last box.
23-15	MTG		1	5	Stabilization of AMS5659/H900 and H925 for 15Cr - 4.5Ni - 0.30Cb (Nb) Bars, Wire, Forgings, Rings, and Extrusions	Agenda	Approved w Changes and Closed	J. Rubadue led discussion of this item. It was decided to keep H900 and H925 columns and add a footnote to H900 and H925 that they are susceptible to SCC. Keep H900 and H925 in figures.
23-17	GTG		1, 2	9	Clarification of Legacy Guidelines for Derived Properties in V1 & V2	Agenda	Approved w Changes and Closed	C. Shannon presented this item. New item opened (Item 23-35) to address reduction of non-lot release compression, shear, and bearing properties when the A-Basis tensile is reduced to the spec min. (Boeing request). Correct equation (b) subscript should be 99.

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CLOSED AGENDA ITEMS

Item No	Responsible Group	HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
23-21	MTG	1	3	Correction to 7075 Bar Diameter Table 3.7.10.0(d)	Agenda	Approved and Closed	C. Shannon presented this item. Changes will be made in 2023
23-24	GCC	2		Required Content to Publish Volume II	Agenda	60 Day Approval	This new item will provide a detailed plan that can be formally approved defining the content of Volume II the GCC agrees is sufficient to publish the new volume with just a framework and the additional content required to begin reviewing and approving agenda items to create new tables. Attendees have 60 days after the Final Minutes are circulated to raise technical objections.
23-26	GCC	1,2		Clarification of MMPDS Voting Procedures	Agenda	60 Day Approval	This new item will clarify the voting requirements of the MMPDS GCC. As currently written, the rules do not specify how to count abstaining votes.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
04-21	FTG		1	8	Fastener Tables of Sunset Review Interest	On Hold	Continue	This item is on hold, pending items 23-27, 23-28, and 23-29
08-23	FTG		1	8	Sunset Review of Table 8.1.3.2.2(c), NAS1921C	On Hold	Continue	This item is on hold, pending items 23-27, 23-28, and 23-29
09-13	FTG		1	8	Sunset Review of Table 8.1.3.2.3(a), MS21140	On Hold	Continue	This item is on hold, pending items 23-27, 23-28, and 23-29
11-05	MTG		1	1	AMS Coordination	Status	Continue	C. Shannon gave a status report. More information will be included in the 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	On Hold	Continue	This item is on hold, pending items 23-27, 23-28, and 23-29
12-105	GTG-F	FTG	1	9	Modification to the Sunset Criteria Procedures	On Hold	Closed w no Action	Closed to open 3 new items, one each for solid, blind, and threaded fasteners. A section like 9.2.2 defining Spec content requirements will be drafted for discussion at the Fall meeting per item 23-34.
12-89	MTG	PSG	1, 2		Target Materials for Propulsion Applications	Status	Continue	P. Wheelock and L. Steele lead discussions. IHI has also joined. Please contact Battelle if you are interested in participating
13-34	MTG		1	5	Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	Status	Continue	C. Shannon gave a status report. Battelle needs compression, shear, and bearing data. ATI may have data to share.
13-50	GTG		1, 2	9	ASTM Coordination	Status	Continue	ASTM Committee week starts on May 8th.
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	Continue	This item is on hold, pending items 23-27, 23-28, and 23-29
15-13	MTG		1	multi	Clarification of Shear Orientation for Legacy Alloys	Status	Continue	An agenda will be prepared for the fall meeting.
15-19	GTG-F		1	9	Verification of Secondary Modulus Methods for Fasteners	Status	Continue	B. Gurrola gave a presentation on the ASTM E3076 method. More data is need to evaluate further. The FTG is requested to send digital data to B. Gurrola or C. Reakes for analysis.
15-38	GTG		1	9	Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature	On Hold	Continue	D. Hall gave a status report. This item is on hold pending revision of the effect of temperature method.
16-12	FTG		1	8	Identifying Basis of Fastener Shear Strength on Remaining Tables	Status	Continue	C. Reakes will investigate data received from Cherry Aerospace. B. Gurrola to aquire new data as available.
16-13	FTG		1	8	Corrections to Table 8.1.3.2.2(c) NAS 1921C	On Hold	Continue	This item is on hold, pending items 23-27, 23-28, and 23-29
16-23	GTG		1	6	Re-evaluate Guidelines for Effect of Temperature Curves	Status	Continue	This item was discussed during the PSG. Consider using multiple curves to fit the data as suggested by several attendees.
17-23	GTG	MTG	1	9	Legacy Alloy Review Strategy – Near Term	Handout	Continue	Discussed in MTG with Item 23-18.
17-28	GTG-F	FTG	1	9	Consideration of Origin in Multiple Regression Analysis for Joint Allowables	Agenda/ Handout	Approved w Changes and Closed	W. White presented this item. The final version will be shown in the minutes.
17-45	MTG		1	3	Effect of Temperature Curves for 2395-T84 Extrusion	On Hold	Continue	On hold pending revision of the effect of temperature method.
17-52	GTG	FatWg	1	9	Review Section 9.6.1 - Load and Strain Control Fatigue	Status	Continue	FatWG did not meet
17-56	MTG		1	3	FCG Analysis for 2397-T87 Plate	Agenda	Continue	C. Reakes presented this item. Open new item to expand FCGR data to include the threshold region. Shorten the red line to eliminate extrapolation.
17-61	GTG	FatWg	1	9	Revising R-curve Requirement in Table 9.2.4	Status	Continue	FatWG did not meet
17-62	GTG	FatWg	1	9	Revising Fatigue Requirement in Table 9.2.4	Status	Continue	FatWG did not meet

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SORTED BY ITEM NUMBERS

Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
17-63	GTG	FatWg	1	9	Use of Box-Cox Transformation in the Fitting of Fatigue Data	Status	Continue	FatWG did not meet
18-08	MTG		1	6	718 Investment Cast (AMS5383) Addition of Tensile A/B-basis and Elevated Temperature	Agenda	Closed w no Action	C. Shannon presented this item. The GCC voted to close with no action.
18-10	GTG	MATSSG	1	9	Data Requirements for Forgings	Agenda	Approved w Changes and Closed	C. Shannon presented this item. Changes were to remove "consistant shape", change cross-sectional area" to "section thickness based on maximum inscribed circle" and change "prolongation" to "specimen".
18-13	GTG		1	9	Guidelines for Exclusion of Low Secondary Property Test Values	Status	Closed w no Action	W. White presented this item. Proposed closed with no action.
19-19	GTG	FatWg	1	9	Consideration of a new Equivalent Stress model for Load-Controlled Fatigue	Status	Continue	FatWG did not meet
19-25	GTG	ASG	1	9	Guidelines for Derived Properties for Legacy Alloys	On Hold	Continue	Still waiting for Item 17-23 to be resolved. Meanwhile, decisions will be made on a case-by-case basis.
19-34	GTG		1	9	Waive Requirement for Bearing Properties When Appropriate	Status	Continue	D. Hall led this discussion. Suggested this should not be limited to engine applications. Airframers generally will not consider material without bearing properties. Would like more flexibility to also waive shear. May include ASG as part of review process.
19-37	GTG-F	FTG	1	9	Establish a Guideline for Reinserting Chapter 8 Tables. (Solid Fasteners)	Agenda	Continue	Placed on hold, pending items 23-27, 23-28, and 23-29
19-38	ETTG		2		Process Intensive Materials & Technologies SDO Coordination	Status	Continue	S. Cordner provided a status update and requested that anyone interested in publishing or reviewing specs to reach out to him. D. Hall provided status updates on work with other SDOs
19-42	MTG		1	3	Confirmation of Design Properties of AMS 4202 for 7475-T7351 Aluminum Alloy Plate	Agenda	Approved and Closed	C. Shannon presented this item. Option 2, to update entire table is approved (20 for , 2 against)
20-03	GTG		1	9	MMPDS Review & Approval Process	Handout	Continue	An agenda will be prepared for fall. (See related Item 20-04)
20-04	GTG	ETTG	2		V2: MMPDS Review & Approval Process	Handout	Continue	D. Hall discussed this handout on the approval process for new additive materials going into MMPDS, V2. Please review and provide comments. An agenda with proposals will be prepared for the Fall meeting.
20-09	MTG		1	3	Expansion of Thickness Range for 6061-T651 Plate	Status	Closed w no Action	C. Shannon gave a status report. P. Bittner (Constellium) noted that there is no longer an interest in expanding the specification thickness range.
20-10	MTG		1	3	Upgrade of Secondary Properties of 7075-T76511 Aluminum Alloy Extrusions	Status	Continue	C. Shannon gave a status report. Kaiser will send data.
20-13	ETTG		2		CMH-17/MMPDS Coordination & Collaboration	Status	Continue	D. Hall gave a status update
20-16	GTG	ETTG	2		MMPDS & Additive Metals - Program Plan	Agenda	Continue	D. Hall presented this item and discussed each of the three phases of V2. Phase I is nearly complete.
20-29	GTG		1, 2	9	Analysis of Bearing and Shear Properties with the new Indirect Method	Handout	Continue	W. White and C. Shannnon presented this item. More analyses will be conducted. Battelle would like to have large populations of bearing and compression data.
20-30	GTG	ETTG	2	9	Components of Variance Analysis of AM, Cast, & Wrought Ti 6-4	Status	Continue	W. White gave a status update on this analysis. Please let Battelle know if you have data to contribute.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
20-35	MTG		1	multi	Alloys Requested for Analysis	Status	Continue	Battelle will continue requesting data.
20-36	MTG		1	multi	Request for Secondary Property Data	Status	Continue	Please let Battelle know if you have compression, shear, and bearing data to share.
21-01	GTG	ETTG	2	1	Foreword to Volume II	Agenda	Approved and Closed	The Foreword that the GSG has written will be included in the Final Minutes.
21-02	GTG	ETTG	2	9	Section 9.5 & 9.6 for Volume II	Status	Continue	D. Hall gave a status update. Battelle will circulate reviewer comments. Please review these as well as the text provided in Item 23-01 and provide feedback as soon as possible.
21-10	FTG		1	8	Fatigue of PH13-8Mo Bolts	Agenda	Continue	K. Olsen and C. Reakes to clarify specification information. C. Reakes to add lines to legend.
21-13	MTG		1	5	Review of Section 5.5.3 Ti-10V-2Fe-3Al Comments and Properties	Agenda	Approved w Changes and Closed	C. Shannon presented this item. "5 in" will be reduced to "4in"
21-18	ETTG		2		Updates from V2WG Sub-teams	Status	Continue	Each V2WG subteam Chair provided an update. Please contact D. Hall if you are interested in joining one of these teams. Meetings are usually 1-2x per month.
21-20	GTG	ETTG	2	9	Microstructural Submittal Requirements	Handout	Continue	D. Hall presented this handout and discussed potential microstructure data requirements. The M&M V2WG will continue to refine potential requirements and prepare a handout.
21-40	GTG	ETTG	2		Impact of Powder Re-use on AMS7000 625 LPBF	Handout	Continue	W. White gave a status update on this analysis.
21-42	MTG	PSG	1	6	Update for Haynes 230 Strength vs. Temperature curves	Status	Continue	D. Hall gave a status update. It makes sense to combine the plate and bar from looking at the results. An agenda item will be included in the fall meeting.
21-43	GTG		1, 2	9	MMPDS use of ASTM E3076 for Slope Determination	Agenda	Approved w Changes and Closed	C. Shannon presented this item. Changes: In Table 9.1.2 add to Analysis methods 9.8.4.1 and 9.8.4.3. Strike second "value" (after table). In Best Linear Fit versus Reported Modulus - add "ASTM E111 modulus" before "test records". Before 9.8.4.1.3 - Pass and Warn flags - change to "the 10% metric provides a PASS or FAIL flag." (make PASS, WARN, and FAIL all "Pass", "Warn",,...). In 9.8.4.1.2 TH slope should be reference modulus instead. Fix table heading also. Slope change to Linear Slope. Minutes to document question about how Ti and other materials with modulus range should be handled.
21-45	MTG		1	5	Analysis of FCGR and Load Control Fatigue data for Ti 6-2-4-2 per AMS4919	Agenda	Continue	C. Reakes presented this item. For FCGR curves, there are several corrections. Check Specimen Typ - should be ESE(T). A clean version will be presented in the Fall. Also look at curve fit for Figure 5.3.3.1.8(a) and check TUS value.
21-46	ETTG		2	10	MMPDS Vol 2, Certification & Qualification "Further Showing"	Handout	Continue	L. Crisler gave a presentation on progress on Chapter 10 for further showing. An agenda item will be prepared for the Fall meeting.
21-48	GTG	MTG	1	9	Periodic Testing Options for Specifications	Handout	Continue	Discussed in MTG with Item 23-18.
21-52	MTG	ASG	1	3	Removal of 7075-T6xxx Design Allowables for Thick Sections	Agenda	Continue	C. Shannon presented this item. ASG would like to delay approval for 1 year to make corrections to some of the tables. Will propose to put note in column with no values. Some material suppliers may have data for thicknesses up to 0.125 inch if needed.
21-53	ETTG		2	6	Analysis of 718 Laser Powder Bed Fusion per AMS7038	Status	Continue	Waiting on data from the supplier. Hoping to generate data in the next 6 months.
22-03	FTG		1	8	Fasteners Requested for Analysis	Status	Continue	No new items added to list.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
22-05	GTG		1	5	Revise Fracture Toughness Table to Include Specification	Agenda	Continue	C. Shannon presented this item. Several comments and corrections were noted and will be included in the fall agenda. Option B is preferred.
22-13	GTG	ETTG	2	10	V2, 10.8 Considerations for the Development of Design Values	Status	Continue	L. Crisler led a discussion of this item.
22-15	FTG		1	8	Test plan for Fastener MS20426AD in 2024-T42	Handout	Continue	To be put on hold pending funding for testing.
22-18	GTG	ETTG	2	9	Section 9.2.1.5: Stress-Strain Properties	Status	Continue	C. Shannon will prepare an agenda for the Fall meeting that creates an analysis section for stress-strain curves. All analysis descriptions are currently in the example section of MMPDS. The goal will be to sync stress-strain content in V1 and V2. Please let Battelle know if you are interested in providing input.
22-23	GTG		1, 2		Clarify use of "Alloy" and "Product"	Status	Closed w no Action	C. Shannon led discussion of this item. Proposed closed with no action. Battelle will update editorially.
22-25	GTG		1	9	Clarify Legacy Alloy Review Guidelines	Agenda	Approved w Changes and Closed	C. Shannon presented this item. Several discussions. Changes recommended for decrease will be shown in minutes.
22-28	MTG	ASG	1	3	Addition of SCC Resistance Caution	Agenda	Approved w Changes and Closed	C. Shannon presented this item. Change proposed note to delete "and further showing." Note would be applied to Temper.
22-33	GTG	ETTG	2	9	Microstructure Information Accessibility for MMPDS, V2	Status	Continue	This item is related to Item 21-20. Please contact S. Cordner (NASA) and D. Hall (Battelle) if you have any questions about microstructure submission requirements.
22-38	GTG-F	FTG	1	9	Guidelines for Re-Inserting Chapter 8 Tables (Blind Fasteners)	On Hold	Continue	This item is on hold, pending item 19-37
22-39	GTG-F	FTG	1	1	Clarification of Joint Table Applications in Chapter 1	Agenda	Approved w Changes and Closed	Final version will be shown in the minutes.
22-41	GTG-F	FTG	1	9	Investigate usage of terms A-Basis and B-Basis in Chapter 8	Agenda	Closed w no Action	This item is closed with no action. A new item will be opened when the information is available.
22-45	FTG	GTG-F	1	multi	Ch. 1, Ch. 8, and Ch. 9 Changes Supporting Fatigue of Bolts	Agenda	Continue	K. Olsen and C. Reakes to clarify use of AC (critical area) and investigate if an A-basis static table should be required for future tables.
22-46	MTG		1	3	Update Stress Corrosion Data for Tables in 3.1.2	Status	Continue	M. Niedzinski has data for 2014-T6. Battelle requests this data from other producers also. Please let Battelle know if you have other SCC data.
22-47	MTG		1	3	Update Introductory Section for 2014 Alloy	Agenda	Closed w no Action	C. Shannon presented this item. It was agreed to close with no action.
22-48	GTG	ETTG	2	1	Revision of Shear and Bearing Sections in V2 Chapter 1 (1.4.6 and 1.4.7)	Agenda	Continue	This item is continued. Please send Battelle your comments on how section 1.4.6 and 1.4.7 should be revised for V2
22-49	GTG	ETTG	2	1	Review of Section 1.4.12 Fracture for V2	Agenda	Closed w no Action	This item is closed with no action. A new item will be opened when the information is available.
22-50	GTG		1	1	Addition of Sections on Thermal Properties and Influence Factors to Chapter 1 V1.	Agenda	Approved w Changes and Closed	D. Hall presented this item. Change in 1.4.16 - remove feedstock chemistry variation and machine-to machine variation for V1. Replace uni-bi-triaxial with uniaxial and multi-axial

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
22-51	GTG	ETTG	2	1	Review of Section 1.6 Validation in V2	Status	Continue	D. Hall lead discussion on this item.
22-52	GTG		1, 2	9	New Indirect Method Continuing Improvements	Agenda	Approved and Closed	B. Krile presented this item. A sentence was added describing regression. L. Crisler (Textron) gave a demonstration of the new indirect tool. Create new item to standardize terminology for "derived" and "reference". Create a new item to document specimen location and how that may be used in analysis.
22-53	GTG		1	9	Review of Table 9.2.4.1	Status	Continue	D. Hall led this discussion. This table was removed in Item 15-36. Confirm that none of the footnotes need to be carried in existing section from old Table 9.2.4.1
22-54	GTG		1, 2	9	Revision of Shear Modulus Sections in Chapter 9 for V1 and V2	Agenda	Continue	C. Shannon presented this item. Waiting for ASTM for part of this. Show clean version for both V1 and V2. Will need some changes for V2.
22-55	GTG		1, 2	9	Examples to Clarify Table 9.4.2.1	Status	Closed w no Action	Table 9.4.2.1 is no longer in MMPDS (should be table 9.2.4.1)
23-01	GTG	ETTG	2		MMPDS-2023, Volume II	Agenda/ Handout	Continue	The GCC voted 28 to 12 to continue this item. This item is continued to address reviewer comments and clean up Sections 9.4, 9.5, and 9.6. The language from the GSG on microstructure will also included. Sections 9.7, 9.8, and 9.9 will be removed. A spreadsheet of comments received to date will be circulated to ET TG attendees before Final Minutes are released. Please review and provide comments on Sections 9.1-9.4 by May 1st, 2023. D. Hall will write a new item (23-24) to define the agreed up on content that will be required before review and approval of entries can be considered. That will be a 60 day approval for this meeting to approve plan for remaining sections needed to publish data in V2. Technical objections to Item 23-24 need to be sent to Battelle within 60 days of the release of the Final Minutes.
23-02	MTG		1	3	Update Table for 7140-T7451 (AMS4401)	Agenda	Approved and Closed	C. Shannon presented this item.
23-03	GTG		1	1, 3	Order of Shear Values When Test Orientations are Shown	Agenda	Approved w Changes and Closed	C. Shannon presented this item. Editorial changes to figure for readability.
23-04			2	10	V2, 10.3 Overview of Qualification	Handout	Continue	L. Crisler (Textron) presented this handout and gave an update on qualification. Provide feedback to L. Crisler or Battelle. The goal is have an agenda for the Fall meeting.
23-05	MTG		1	3	Corrections to 7075-T651 Bare Plate per AMS4045, 7075-T651 Clad Plate per AMS4040, & 7075-T62 Clad Plate per AMS4048	Agenda	Approved and Closed	C. Shannon presented this item.
23-06	MTG		1	3	Corrections to 7075-T7351 Plate per AMS4078	Agenda	Approved and Closed	C. Shannon presented this item.
23-07	MTG		1	3	Corrections to 7075-T73XX Extrusions per AMS4617	Agenda	Approved and Closed	C. Shannon presented this item.
23-08	MTG		1	3	Corrections to 7075-T76XX Extrusions per AMS4317	Agenda	Approved and Closed	C. Shannon presented this item.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
23-09	MTG		1	5	Stabilization of AMS6925 and AMS6926 for Ti-13V-11Cr-3Al Bar	Agenda	Approved and Closed	C. Shannon presented this item.
23-10	GTG				Revision to Figure 9.5.1.2 (b) - Regression Flowchart	Agenda	Continue	W. White presented this item. Changes were suggested to the revised flowchart shown at meeting.
23-11	GTG	ETTG	2	10	Section 10.6 Consensus Standards	Handout	Continue	L. Crisler presented this handout. An agenda will be prepared for the fall meeting.
23-12	GTG	ETTG	2	1	V2 Column Reference Clean-Up	Agenda	Continue	This item is continued. Send any comments to D. Hall (Battelle). Will incorporate changes for agenda item in the fall.
23-13	GTG		1, 2	9	Revision of Figures for Legacy Alloys	Agenda	Approved w Changes and Closed	C. Shannon presented this item. In text after General Coord.. put "(GCC)" . Fig (b), add section number in last box.
23-14	MTG		1	5	Revision of Ti-6Al-4V Die Forging Property Table	Agenda/ Handout	Continue	C. Shannon presented this item. Table 4 - use Data set C. Table 8 corrected in Handout. Correction to TUS(T) current Table 6 is 135. There is interest in including the Klc data.
23-15	MTG		1	5	Stabilization of AMS5659/H900 and H925 for 15Cr - 4.5Ni - 0.30Cb (Nb) Bars, Wire, Forgings, Rings, and Extrusions	Agenda	Approved w Changes and Closed	J. Rubadue led discussion of this item. It was decided to keep H900 and H925 columns and add a footnote to H900 and H925 that they are susceptible to SCC. Keep H900 and H925 in figures.
23-16	MTG		1	3	2050 SCC Test Data	Present.	Continue	M. Niedzinski (Constellium) gave a presentation. A copy of the presentation is provided with the minutes.
23-17	GTG		1, 2	9	Clarification of Legacy Guidelines for Derived Properties in V1 & V2	Agenda	Approved w Changes and Closed	C. Shannon presented this item. New item opened (Item 23-35) to address reduction of non-lot release compression, shear, and bearing properties when the A-Basis tensile is reduced to the spec min. (Boeing request). Correct equation (b) subscript should be 99.
23-18	MTG		1		QPL for SAE AMS Metals	Handout	Continue	K. Sabo (Lockheed Martin & SAE AMS Metals Chair) gave a presentation on possible route of QPL using NADCAP which would provide lot release data to Battelle for analysis. M. Niedzinski (Constellium) will start a working group consisting of M. Hahn (Northrop Grumman), J. Scheuring (Scheuring), K. Sabo, D. Rosenblatt (Boeing), H. Raposo (Carpenter), and B. Thomas (Bombardier).
23-19	GTG-F	ETTG	2	9	Review of 9.7 for Volume II	Status		This section will be pulled out of Volume II for the first edition. Too much of the content would confuse a new user of the Handbooks. "This section is reserved for future use."
23-20	GTG	ETTG	2	9	Section 9.8 & 9.9 for Volume II	Status	Continue	D. Hall gave a status update. Sections 9.8 and 9.9 will be pulled out of Volume II for the first edition. Too much of the content would confuse a new user of the Handbook. "This section is reserved for future use." Battelle will circulate reviewer comments. Please review these as well as the text provided in Item 23-01 and provide feedback.
23-21	MTG		1	3	Correction to 7075 Bar Diameter Table 3.7.10.0(d)	Agenda	Approved and Closed	C. Shannon presented this item. Changes will be made in 2023
23-22	ETTG		2		6061-RAM2 per AMS 7054	Status	Continue	C. Johnson gave a presentation on this new additive material. A copy of the slides will be provided with the minutes.

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Item No	Responsible Group		HDBK Vol.	Chpt	Title	Type	Action	Meeting Description
	Final	Initial						
23-23	ETT		2		Analysis of AM data for Material Specification	Handout	Continue	C. Shannon presented this handout to receive feedback from the ETTG about an ongoing debate within the SAE AMS AM Metals Committee about how the specification minimums should be set. Please contact Battelle if you have additional input.
23-24	GCC		2		Required Content to Publish Volume II	Agenda	60 Day Approval	This new item will provide a detailed plan that can be formally approved defining the content of Volume II the GCC agrees is sufficient to publish the new volume with just a framework and the additional content required to begin reviewing and approving agenda items to create new tables. Attendees have 60 days after the Final Minutes are circulated to raise technical objections.
23-25	GCC		2		Additional Content Required to Publish Material Allowable Entries in Volume II	Agenda	Continue	This new item will provide a detailed plan that can be formally approved defining the content of Volume II the committee agrees is sufficient to publish the new volume with just a framework and the additional content required to begin reviewing and approving agenda items to create new tables.
23-26	GCC		1,2		Clarification of MMPDS Voting Procedures	Agenda	60 Day Approval	This new item will clarify the voting requirements of the MMPDS GCC. As currently written, the rules do not specify how to count abstaining votes.
23-27	GTG-F	FTG	1	9	Modification of Sunset Procedures for Swaged Collar / Threaded Fasteners		New	This new item is from Item 12-105
23-28	GTG-F	FTG	1	9	Modification of Sunset Procedures for Solid Rivets		New	This new item is from Item 12-105
23-29	GTG-F	FTG	1	9	Modification of Sunset Procedures for Blind Fasteners		New	This new item is from Item 12-105
23-30	GTG-F	FTG	1	9	Minimum Spec Content Requirements for Fasteners (like 9.2.2)		New	This new item is from Item 12-105
23-31	GTG	ASG, MATSSG	1	3	Confirm SCC Resistance Caution for 2024-T42, T62 Plate		New	Following the meeting it was questioned if the caution really belonged on Table 3.12.4.0(b3) since there is no D rating for plate in this temper, only for forging. (Item 22-28)
23-32	GTG		1,2		Clarify Terms "reference" and "derived" in Indirect Method		New	This new item is from Item 22-52 to standardize "primary" and "reference" to just "reference" and "secondary" and "derived" to just "derived".
23-33	GTG			9	FCP Variable Load Analysis Methods		New	This new item is from Item 17-56
23-34	GTG		1,2	9	Role and Documentation of Specimen Location Used in Indirect Analysis		New	This new item is from Item 22-52
23-35	GTG	ASG	1	9	Guideline to Reduce Compression, Shear, and Bearing		New	New item requested by Boeing from Item 23-17 to address the reduction of non-lot release properties (compression, shear or bearing) calculated by the direct method when the tensile A-Basis is reduced to the specification minimum. It is suggested that A-basis should be reduced in this case using the tensile S/T99 ratio from the matching thickness range, grain direction and yield/ultimate. This new requirement will be added to Section 9.1.7.1.
23-36	GTG-F	FTG	1	9	Ch. 8 A-Basis Static Allowables Requirement for Fastener Fatigue Figures		New	This new item is from Item 22-45