



Minutes of the 36th MMPDS Coordination Meeting

Held in:

Virtual Meeting
September 21st - 25th, 2020

Compiled by:

Battelle
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Columbus, OH 43201-2693

Prepared for:

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36th MMPDS Coordination Meeting

Introduction of Attendees

A list of 36th Coordination Meeting attendees, indicating the virtual meetings they attended, has been incorporated into this document.

Chairman's Remarks – Mark James, FAA

I want to thank everyone who participated in the 36th MMPDS coordination meetings held virtually between September 21st through September 25th. The COVID-19 virus continues to be a great challenge that will impact the aerospace industry for some time to come. The Battelle team did an excellent job again of organizing and coordinating the WebEx sessions to keep the program moving forward.

As discussed, the MMPDS Bylaws define the GCC as being “composed of individuals physically attending an MMPDS GCC meeting regardless of the GSG or ISG membership status.” However, due to the demands of the program and in order to continue moving forward, we consider items approved during the GCC as approved.

As of this writing, Battelle and the FAA expect that the 37th Meeting will take place in Santa Ana, CA the week of March 22, 2021. Thanks again for attending the 36th MMPDS Coordination 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,
Chairman, Mark James

Mark James
Standards Staff Engineer for Small Airplanes
Structures, Flammability and
Noise Control Specialist (NCS)

Approval of the 36th MMPDS Meeting Minutes

The 36th MMPDS Coordination Meeting Minutes were approved.



SUMMARIES

36th MMPDS Meeting Attendance			September 21st	September 21st	September 21st	September 22nd	September 23rd	September 24th	September 25th	September 25th
Last Name	First Name	Company	Orientation	ISG	ISG/GSG	FTG 1-3	ETTG 1-3	GTG 1-3	MTG 1-3	GCC
Anderegg	David	Defense Logistics Agency			x	x	x	x	x	x
Anderson	Neil	Boeing				x				
Andrulonis	Rachael	NIAR	x				x			x
Antonyamy	Alphons	GKN Aerospace								
Ashforth	Cindy	Federal Aviation Administration					x			
Bach	Andreas	Aleris Rolled Products								
Baird	Brad	Collins Aerospace	x	x	x		x			
Bakuckas	John	Federal Aviation Administration						x		
Barnes	Devin	Lockheed Martin					x	x		
Barros	Marcelo	Embraer			x	x		x		
Beckman	Jonathan	Gulfstream					x	x		
Bennett	Jay	NASA	x		x	x	x	x	x	x
Bennett	Russell	Boeing	x	x	x			x	x	x
Bihlman	Bill	Aerolytics, LLC					x			
Bischoping	Zachary	Moog Inc.					x			
Bittner	Peter	Constellium		x	x		x	x	x	x
Bourges	Laurent	Lisi Aerospace				x				
Bray	Gary	Westmoreland		x	x		x	x	x	x
Buchwald	Scott	Constellium							x	
Buckner	Elisa	Northrop Grumman								
Chen	Bo	Beijing Institute for Aeronautical Materials								
Chung	Pui See	Blue Origin	x	x			x		x	
Chung	Tony	Blue Origin								
Cordner	Sam	NASA	x		x	x	x	x	x	
Crill	Matthew	Boeing	x	x	x		x	x	x	x
Crisler (Frink)	Elizabeth	Textron Aviation	x	x	x		x	x	x	x
Crist	Ernie	Howmet								
Cunha	Mauricio	Embraer					x	x	x	
Daley	Nancy	Rocketdyne					x	x	x	x
Dangerfield	Victor	Universal Alloy		x				x	x	
Dater	Brian	Lockheed Martin	x	x	x	x				
Davies	Curtis	Federal Aviation Administration	x		x		x	x		
Demiroğlu	Mehmet	Tusas Engine Industries					x			
Dinler	Ali Firat	Tusas Engine Industries								
Doty	Peter	SAE ITC					x			
Dux	Tiffany	Howmet	x	x	x			x	x	
Esparragoza	Manuel	Questek	x	x	x			x	x	x
Garcia-Avila	Matias	ATI Metals		x	x		x	x	x	
Gibbons	Duncan	Students - Stellenbosch University	x		x		x	x	x	x
Glendening	Andrew	NASA					x		x	
Goode	Randy	Lockheed Martin		x	x	x	x	x	x	x
Gorelik	Michael	Federal Aviation Administration			x		x	x	x	x
Grant	Robert	Federal Aviation Administration					x			
Guerrier	Paul	Moog Inc.		x	x		x			
Guo	Guangping	Beijing Institute for Aeronautical Materials	x	x					x	
Gurrola	Robert	Howmet		x	x	x		x		x
Hahn	Michael	Northrop Grumman		x	x	x	x	x	x	x
Hall	Doug	Battelle Memorial Institute	x	x	x	x	x	x		x
Heine	Christoph	Airbus	x	x	x	x	x	x	x	x
Hernandez-Otero	Edwin	Boeing	x	x	x		x	x	x	x
Hess	Ethan	US Navy								
Hirsch	Michael	US Air Force			x		x			
Holshouser	Christopher	NIAR					x			
James	Mark	Federal Aviation Administration			x	x	x	x	x	x
Jiao	Zehui	Beijing Institute for Aeronautical Materials	x				x			
Johnson	Dwight	Textron Aviation		x	x	x	x		x	x
Jones	Lindsay	Boeing					x	x		
Jones	Marshall	US Navy					x			

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Last Name	First Name	Company	Orientation	ISG	ISG/GSG	FTG 1-3	ETTg 1-3	GTG 1-3	MTG 1-3	GCC
Joshi	Dhananjay	Textron Aviation							X	
Kasami	Akiko	MHI					X	X	X	X
Keller	Paul	TriMas/Allfast				X				
Kim	Don	GKN Aerospace	X	X	X		X			
Kitt	Brian	Spirit Aerosystems								
Kopacz	Brian	Moog Inc.					X			
Kowalik	Daniel	EWI					X			
Krile	Bob	Battelle Memorial Institute	X			X	X	X		X
Liou	Richard	Collins Aerospace								
Loo	Jeffrey	NASA					X	X	X	
Lovingfoss	Royal	NIAR					X			
Luna	Sarah	NASA	X				X			
Lupulescu	Afina	AMS International	X				X	X	X	
Luu	Kimberly	Federal Aviation Administration	X							
Mallory	Jaikp	Delta Airlines				X		X	X	X
Marsden	Will	Granta	X							
McNair	Mike	SAE ITC	X				X			
Miller	Ross	Blue Origin	X	X		X	X	X	X	
Mole	Erika	Blue Origin								
Nagao	Kazuki	Honda R&D Americas, Inc.	X	X	X		X	X	X	X
Niedzinski	Michael	Constellium		X	X			X	X	X
Norimatsu	Koichi	IHI Corporation						X		
Ofsthun	Mark	Honda Aircraft Company	X	X	X	X	X		X	
Olsen	Kirk	Parker LORD	X	X	X	X	X	X	X	X
Oparka	Stephen	US Navy	X				X			
Oshino	Hironobu	IHI Corporation		X	X		X	X	X	X
Özkaya	Furkan	Tusas Engine Industries						X		
Papenfuss	Norbert	WIAM Gmbh	X	X			X	X		
Parga	Clemente	Blue Origin		X	X	X				
Park	Charles	Boeing	X	X	X		X	X		
Piché	Marie	Bombardier Aviation	X	X	X	X	X	X	X	X
Pujar	Vijay	Collins Aerospace	X	X	X		X			
Reakes	Clay	Battelle Memorial Institute	X	X	X	X	X	X		X
Reber	Korey	Collins Aerospace	X	X			X			
Reeves	Daniel	Blue Origin					X			
Reinmuller	Roger	Lockheed Martin	X	X	X		X	X	X	X
Rubadue	Jana	Battelle Memorial Institute	X	X	X	X			X	X
Sandoval	Hector	Lockheed Martin					X			
Scalf	Cyndee	Battelle Memorial Institute	X	X	X	X	X		X	X
Scheuring	Jason	Kaiser Aluminum		X	X		X	X	X	X
Shannon	Carinne	Battelle Memorial Institute	X	X	X	X	X	X	X	X
Shivers	Brian	US Air Force	X		X	X	X	X	X	
Shula	Brian	Honeywell	X	X	X		X		X	
Sippel	Walter	Federal Aviation Administration	X		X		X	X	X	X
Smith	Ryan	General Electric					X			
Smith	Timothy	Federal Aviation Administration	X		X		X	X		
Sodouri	Pedrum	Norsk Titanium					X			
Steele	Leslie	Collins Aerospace		X	X	X	X	X	X	X
Steevens	Andrew	Boeing	X	X	X		X	X		X
Stonaker	Kevin	Federal Aviation Administration	X		X		X	X	X	X
Sutton	Adam	Lockheed Martin		X	X	X	X	X	X	
Takahashi	Kotomi	IHI Corporation					X			
Thomas	Bruce	Bombardier Aviation	X	X	X	X	X	X	X	
Thompson	Steve	US Air Force			X	X	X	X	X	X
Vanderpol	Paul	Collins Aerospace	X	X	X	X				
Vetland	Emma	GKN Aerospace					X	X		
Vogel	Bret	Textron Aviation		X	X	X	X	X	X	X
Wen	Wei (Andy)	ATI Metals	X	X	X	X	X	X	X	X

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Wheelock	Paul	Rolls-Royce	x	x	x		x	x		x
White	Martin	ASTM					x			
White	Will	Battelle Memorial Institute				x	x			
Williams	Chris	NASA	x		x	x	x	x		
Woish	Mason	Lockheed Martin					x			
Wrenn	Katy	Boeing					x	x		
Yondu	Numan Berat	Tusas Engine Industries					x		x	
Young	Bruce	Battelle Memorial Institute							x	x
Zehui	Jiao	Beijing Institute for Aeronautical Materials							x	

36th MMPDS Coordination Meeting

New Item Numbers Assigned in 2020

20-01	Stabilization of AMS-QQ-A-200/3 for 2024 Alloy Extrusions
20-02	Editorial Correction for Section 9.6.1.11
20-03	MMPDS Review & Approval Process
20-04	V2: MMPDS Review & Approval Process
20-05	L-605 ST Bar and Forging Creep Curve Correction
20-06	Addition of 2043-T85 Extrusion Tensile Stress-Strain Curves
20-07	Mechanical and Physical Properties for 7160-T7351 Aluminum Alloy Plate
20-08	Mechanical and Physical Properties for 7160-T7451 Aluminum Alloy Plate
20-09	Expansion of Thickness Range for 6061-T651 Plate
20-10	Upgrade of Secondary Properties of 7075-T76511 Aluminum Alloy Extrusions
20-11	Split Table 9.2.4 for Chapters 2-7 and Chapter 8
20-12	Maintenance for Alloys for Analysis
20-13	CMH-17/MMPDS Coordination & Collaboration
20-14	Discussion of Factors contributing to variance of Extrusion Stress-Strain Curves
20-15	Revisit Stress-Strain Data Generation Guidelines - Use of Extensometers
20-16	MMPDS & Additive Metals - Program Plan
20-17	Components of Variance Analysis of AM, Cast, & Wrought 718
20-18	Updates to Low Alloy Steel Tables
20-19	Acceptance Testing Comparisons: Producers vs. Consumers Risk
20-20	Proposed Test Plan for Static Joint Strength of 100° Flush Shear Head Blind Rivets
20-21	Definitions for Volume II
20-22	Consent Agenda Item: Approve and Close items from the 35th meeting

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New Item Numbers Assigned in 2020

20-23	Stress-Corrosion Cracking of 7160 Aluminum Alloy Plate
20-24	Correction to 300 Stainless Steel Elongation Properties
20-25	Stabilization for AISI 1025 Tubing Specifications
20-26	Update References for Beryllium Toxicity
20-27	Specification Changes for Aluminum Alloys
20-28	Addition of Punch Shear Footnote
20-29	Analysis of Bearing and Shear Properties with Reduced Ratios
20-30	Components of Variance Analysis of AM, Cast, & Wrought Ti 6-4
20-31	Definitions of "Design Allowable", "Design Value", and "Material Allowables"
20-32	"Should", "Shall", "Must" decision for MMPDS program
20-33	2196-T8511 Aluminum Extrusion Analysis and Upgrade
20-34	Addition of Footnote for Expanded Thickness Ranges with No Secondary Properties
20-35	Alloys Requested for Analysis
20-36	Request for Secondary Property Data
20-37	Re-analysis of 7160-T7451 BUS $e/D=2.0$ (S-L)

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Agreed to Close

Item No	Responsible		Chpt	Title	Type	Webex Session	36th Action	36th Meeting Description
	Final	Initial						
10-25	GTG-F	FTG	9	Fastener Installation Parameters for Joint Tension Allowables	Agenda	FTG-2	Closed w no Action	D. Hall presented this item. Voted to close with no action (16/19 voted to close, 3/19 to continue)
11-15	MTG		2	Division of Low Alloy Steel Table 2.3.1.0(g2)	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
12-52	GTG-F	FTG	9	Fastener Minimum t/D Requirements	Agenda	FTG-1	Approved w Changes and Closed	C. Reakes presented this item. This item was approved with the correction to fix typo to be "...edge of the hole. ..."
16-29	GTG	ASG	1	Review of Section 1.4.7 Bearing Properties	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
16-36	GTG-F	FTG	9	Use of T99 as A-Basis When Higher than Specification for Fastener Shear and Tension	Agenda/ Handout	FTG-1	60 Day Approval without changes	C. Shannon presented this item. ASG will organize a call to discuss the item. Any objections must be sent to Battelle within 60 days after the minutes are published.
16-37	GTG-F	FTG	1	Chapter 1 Guidelines on Fastener Design Allowable Usage	Agenda	FTG-1, GTG-3	Approved and Closed	C. Reakes presented this item for approval by the FTG on 9/22. D. Hall presented this item at the GTG for final approval on 9/24.
17-19	MTG		2	Addition of Transverse Bearing Strength Properties for Custom 465 Bar	Status	MTG-1	Closed w no Action	J. Rubadue proposed closing with no action. Carpenter does not intend to generate needed data. Alloy added to Item 20-36 with note that Carpenter does not intend to provide data.
17-26	GTG	ASG/M ATSSG/ PSG	9	Guidelines for Generation and Use of A/B Allowables for Castings	Agenda	GTG-2	Approved w Changes and Closed	D. Hall presented this item. S. Thompson would like to see a reference to definition of material allowable before including. Suggested S-Basis properties. Needs to look at regulatory documents. Changes from ASG and MATSSG will be included. Agreed to MATSSG change and S-basis properties. Voted to approve with changes - 33 for, 7 no. Item 20-31 was opened to discuss MMPDS use of the terms design allowables and material allowables.
17-30	GTG-F	FTG	9	Revision of Table Format for Joint Allowables	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
17-31	GTG-F		9	Sunset Shear Strength Rule Criteria Addition	Agenda	FTG-2, GTG-3	Approved and Closed	C. Shannon presented this item. It was discussed and approved by FTG and GTG.
18-05	GTG	ASG/M ATSSG	9	Data Quantities for Large Thickness Ranges	Agenda	GTG-3	Approved w Changes and Closed	Text changes are captured in the ppt presentations to clarify the wording.
18-21	MTG		3	Upgrade S-basis to A/B-basis for 2219-T852 Aluminum Alloy Hand Forgings	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
18-28	GTG		9	Using the Logarithm Transformation with MIDAS Analysis of Minimum Properties	Agenda	GTG-2	Closed w no Action	C. Reakes presented this item to close with no action.

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Agreed to Close

Item No	Responsible		Chpt	Title	Type	Webex Session	36th Action	36th Meeting Description
	Final	Initial						
19-05	GTG		9	Secondary Properties Requirement When Expanding Thickness Range in a Table	Agenda	GTG-2	60 Day Approval with changes	J. Rubadue presented this item. G. Bray's revision of paragraph was accepted with change to last sentence change "design allowable properties" to "A- and B-Basis properties". Roger suggest additional data required by user. Add footnote to column that secondary properties must be confirmed. See section 1..... B. Thomas said to change wording to "strongly recommended" from "recommended". Poll taken for/against - 29/5. A new Item was created to include words regarding testing (R. Reinmuller, R. Goode). Open a new item to document to identify where a footnote is needed on expanded range and to add the footnote to the example table.
19-17	GTG	ETTG	V2	Minimum Content Requirements for Public Specifications - Volume II	Agenda	ETTG-2	Approved with Changes and Closed	D. Hall presented this item. Section 9.2.2.2.1, bullet 5 - Metallography should add "... and limits ..." to say "... requirements and limits ...". No objections to keeping text for 9.2.2.4.
19-33	MTG		3	Upgrade Bearing Strength from S- to A-/B-Basis 7075-T6 Bare Sheet	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
19-35	GTG-F	FTG	9	Re-Evaluate R-Squared Acceptance Requirement for Fastener Shear or Tensile Strength Allowables	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
19-45	MTG		3	Addition of A206.0-T4 and T71 Sand Casting Fatigue Analyses	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
19-46	FTG		8	Review Table 8.1.2(a)	Agenda	FTG-1	Closed with no Action	D. Hall presented this item. In future, consider redoing the table by removing driven material column.
20-01	MTG		3	Stabilization of AMS-QQ-A-200/3 for 2024 Alloy Extrusions	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
20-02	GTG		9	Editorial Correction for Section 9.6.1.11	Agenda	GTG-3	Approved and Closed	D. Hall presented this item.
20-05	MTG		6	L-605 ST Bar and Forging Creep Curve Correction	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
20-06	MTG		3	Addition of 2043-T85 Extrusion Tensile Stress-Strain Curves	Agenda	MTG-3	Approved and Closed	C. Shannon presented this item. A definition of Aspect Ratio is included in the Minutes.
20-07	MTG		3	Mechanical and Physical Properties for 7160-T7351 Aluminum Alloy Plate	Agenda	MTG-2	Approved with Changes and Closed	J. Rubadue and C. Shannon presented this item. Intro comments approved. Modulus correction will be made in the table. BMI to add info to minutes about COV ratios for shear and bearing. Other comments captured in the Chat. Stress-strain curves approved.
20-08	MTG	MATSS G	3	Mechanical and Physical Properties for 7160-T7451 Aluminum Alloy Plate	Agenda	MTG-2	Approved with Changes and Closed	J. Rubadue and C. Shannon presented this item. Comments captured in the Chat be summarized in the minutes. Create an item to re-analyze the data for Figure 14b. Stress-strain curves approved.
20-11	GTG-F	FTG	9	Split Table 9.2.4 for Chapters 2-7 and Chapter 8	Agenda	FTG-1, GTG-3	Approved and Closed	D. Hall presented this item approved by FTG and presented to GTG.
20-12	MTG		multi	Maintenance for Alloys for Analysis	Agenda	A-3	Approved and Closed	J. Rubadue presented this item to consolidate several items into 2 items.
20-14	GTG	MATSS G/ASG	9	Discussion of Factors contributing to variance of Extrusion Stress-Strain Curves	Agenda	GTG-3	Closed with no Action	C. Shannon presented this item proposing close with no action.

36th MMPDS Coordination Minutes

Agreed to Close

Item No	Responsible		Chpt	Title	Type	Webex Session	36th Action	36th Meeting Description
	Final	Initial						
20-17	GTG	ETTG	V2	Components of Variance Analysis of AM, Cast, & Wrought 718	Handout	ETTG-3	Closed w no Action	D. Hall persented this item. Discussed in ET TG and briefly in GTG.
20-19	GTG	ETTG	V2	Acceptance Testing Comparisons: Producers vs. Consumers Risk	Handout	ETTG-3	Closed w no Action	B. Krile presented this topic. A presentation is included in the Minutes.
20-21	FTG		8	Proposed Test Plan for Static Joint Strength of 100" Flush Shear Head Blind Rivets	Present.	FTG-2	Closed w no Action	P. Keller presented new information about the test plan. A new item will be opened when data are received.
20-22	GCC		All	Consent Agenda Item: Approve and Close items that were Agreed or Agreed w/Changes from the 35th meeting.	Agenda	GCC	Approved and Closed	D. Hall presented this item to Approve & Close Agenda Items 11-15, 16-29, 17-30, 18-21, 19-33, 19-35, 19-45, 20-01, and 20-05.
20-23	MTG		3	Stress-Corrosion Cracking of 7160 Aluminum Alloy Plate	Agenda	MTG-3	Approved and Closed	J. Rubadue presented this item adding SCC to tables.
20-24	MTG		2	Correction to 300 Stainless Steel Elongation Properties	Agenda	MTG-1	Approved and Closed	J. Rubadue presented this item. Battelle will confirm that the symbol is ">" not "≥" and document that confirmation in minutes.
20-25	MTG		2	Stabilization for AISI 1025 Tubing Specifications	Agenda	MTG-1	Approved and Closed	J. Rubadue presented this item. Final tables will be shown in the minutes.
20-26	MTG		7	Update References for Beryllium Toxicity	Agenda	MTG-1	Approved and Closed	J. Rubadue presented this item. Final changes will be shown in the minutes.
20-27	MTG		3	Specification Changes for Aluminum Alloys	Agenda	MTG-1	Approved and Closed	J. Rubadue presented this item. M. Niedzinski commented that AMS 4330 was stabilized was based on a mistaken assumption that it was not being used. AMS will rebalot to move it back to Active status. The ballot closes on 9/27/20. Changes for AMS 4025 will be shown in minutes.
20-27	MTG		3	Specification Changes for Aluminum Alloys	Handout	MTG-1	Approved and Closed	The handout was informational only and did not include changes for MMPDS. A new item will be created when BMI receives data for this alloy and will note which quench process was used.
20-28	GTG		9	Addition of Punch Shear Footnote	Agenda	GTG-3	Approved w Changes and Closed	J. Rubadue presented this item. Remove sentence "Results may be conservative."

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SORTED BY ITEM NUMBER

Item No	Responsible		Chpt	Title	Type	Webex Session	36th Action	36th Meeting Description
	Final	Initial						
03-14	MTG	ASG	1	Review of Currency of Existing Database on Legacy Alloys	Status		Not Covered	This item was not discussed. This item is closed and incorporated into Item 20-35 "Alloys Requested for Analysis" per Item 20-12.
04-21	FTG		8	Fastener Tables of Sunset Review Interest	On Hold		Not Covered	This item is on hold, pending items 12-50, 12-105, 17-28, and 17-29.
08-23	FTG		8	Sunset Review of Table 8.1.3.2.2(c), NAS1921C	On Hold		Not Covered	This item is on hold, pending items 12-50, 12-105, 17-28, and 17-29.
09-13	FTG		8	Sunset Review of Table 8.1.3.2.3(a), MS21140	On Hold		Not Covered	This item is on hold, pending items 12-50, 12-105, 17-28, and 17-29.
10-14	MTG	ASG	3	Wrought Aluminum Alloys with S-Basis Minimums	Status		Not Covered	This item was not discussed. This item is closed and incorporated into Item 20-35 "Alloys Requested for Analysis" per Item 20-12.
10-15	MTG		3	Mechanical Properties for Forgings	Status		Not Covered	This item was not discussed. This item is closed and incorporated into Item 20-35 "Alloys Requested for Analysis" per Item 20-12.
10-25	GTG-F	FTG	9	Fastener Installation Parameters for Joint Tension Allowables	Agenda	FTG-2	Closed w no Action	D. Hall presented this item. Voted to close with no action (16/19 voted to close, 3/19 to continue)
11-05	MTG		1	AMS Coordination	Status		Not Covered	This item was not discussed. An update will be included in the minutes.
11-15	MTG		2	Division of Low Alloy Steel Table 2.3.1.0(g2)	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
11-38	FTG		8	Sunset Review of Flush Head, Mechanical Lock Spindle Blind Rivet Table 8.1.3.2.2(e) NAS 1921 M	On Hold		Not Covered	This item is on hold, pending items 12-50, 12-105, 17-28, and 17-29.
11-43	FTG		8	Supporting Data and Basis Identification for Table 8.1.2(b)	Status		Not Covered	This item was not discussed.
12-105	GTG-F	FTG	9	Modification to the Sunset Criteria Procedures	Status		Not Covered	This item was not discussed. Pending resolution of 12-50 and 17-28.

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SORTED BY ITEM NUMBER

Item No	Responsible		Chpt	Title	Type	Webex Session	36th Action	36th Meeting Description
	Final	Initial						
12-17	MTG	ASG & MATSS G	6	Footnote for Non-Ferrous Alloys Test Specimen When Not From Full Thickness	Status		Not Covered	This item was not discussed. Are there any non-ferrous alloys which need a footnote added?
12-50	GTG-F	FTG	9	Evaluation of new Regression and Confidence Models for Lap Joint Tests	Status		Not Covered	This item was not discussed.
12-52	GTG-F	FTG	9	Fastener Minimum t/D Requirements	Agenda	FTG-1	Approved w Changes and Closed	C. Reakes presented this item. This item was approved with the correction to fix typo to be ". . .edge of the hole. . . ."
12-89	MTG	PSG		Target Materials for Propulsion Applications	Status		Not Covered	This item was not discussed.
13-34	MTG		5	Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	Status		Not Covered	No action on this item. Waiting on fatigue crack growth data from AFRL. Requested data from Arconic.
13-50	GTG		9	ASTM Coordination	Status		Not Covered	This item was not discussed.
14-19	GTG		9	Inclusion of KIsi Fracture Toughness Data	Status		Not Covered	This item was not discussed.
14-28	FTG		8	Sunset Review of Table 8.1.4.2(i), LGPL2SC-V Pin, 3SLC-C Collar in Clad 7075-T6	On Hold		Not Covered	This item was not discussed. No action on this item.
14-62	GTG		9	Evaluate Inclusion of other Fracture Toughness Data (JIC, KJIC)	Handout	GTG-1	Continue	C. Reakes presented this item. B. Thomas will send additional comments to G. Bray. G. Bray will prepare an agenda for the Spring meeting.
14-66	MTG		2	Addition of 15-5PH Sheet S-Basis per AMS 5862 for H1025 Condition	Status		Not Covered	Data are needed. This item is closed and incorporated into Item 20-35 "Alloys Requested for Analysis" per Item 20-12.
14-67	MTG		3	Addition of 3-6 Inch Range for 7075-T73X Bar and Rod per AMS 4124	Status		Not Covered	Data are needed. This item is closed and incorporated into Item 20-35 "Alloys Requested for Analysis" per Item 20-12.

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	Final	Initial						
15-13	MTG	ISG & GSG	multi	Clarification of Shear Orientation for Legacy Alloys	Agenda	MTG-3	Continue	J. Rubadue presented this item. Identify 2024-T3, 7075-T76, and 7475 as punch shear as proposed. Continue 718 based on comments from S. Thompson and G. Bray.
15-19	GTG-F	FTG	9	Verification of Secondary Modulus Methods for Fasteners	Status		Not Covered	This item was not discussed.
15-36	GTG	ISG & GSG	9	Modification of Indirect Analysis Equation	Agenda	GTG-2	Continue	B. Krile presented this item. Please send questions and comments to B. Krile. An agenda proposing this modification of the indirect method will be included in the Spring meeting. An attachment is included in the Minutes.
15-38	GTG		9	Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature	Status		Not Covered	This item was not discussed.
15-40	GTG	ASG/M ATSSG	9	Guidelines for When Specimens Are Not From Full Thickness	Agenda	GTG-1	Continue	ASG and MATSSG had comments with suggested changes. MATSSG asked if K1c was also a concern. B. Thomas the concern should be mentioned. R. Reinmüller stated that the producer should identify which other properties may be impacted. R. Goode mentioned ASG discussed what would be in the study. It would include tensiles. D. Barnes are we providing enough guidance for what is needed. J. Bennet concerned about rejections.
15-42	MTG		2	Casting Allowables for 15-5PH and 17-4PH Steel	Status		Not Covered	This item was not discussed. No changes to this item.
16-02	GTG		9	Updates to Strain Departure Methods for Stress-Strain Curve Analyses	Status		Not Covered	This item was not discussed.
16-12	FTG		8	Identifying Basis of Fastener Shear Strength on Remaining Tables	Status		Not Covered	This item was not discussed.

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16-13	FTG		8	Corrections to Table 8.1.3.2.2(c) NAS 1921C	On Hold		Not Covered	This item is on hold, pending items 12-50, 12-105, 17-28, 17-29, and 08-23.
16-20	GTG	ETTG	V2	Equivalence Testing Assuming Change in Process (From Item 11-40)	Status	ETTG-3	Continue	This item was not discussed due to time constraints. It will be continued to the next meeting.
16-23	GTG	PSG	6	Re-evaluate Guidelines for Effect of Temperature Curves	Status		Not Covered	This item was not discussed.
16-29	GTG	ASG	1	Review of Section 1.4.7 Bearing Properties	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
16-36	GTG-F	FTG	9	Use of T99 as A-Basis When Higher than Specification for Fastener Shear and Tension	Agenda/ Handout	FTG-1	60 Day Approval without changes	C. Shannon presented this item. ASG will organize a call to discuss the item. Any objections must be sent to Battelle within 60 days after the minutes are published.
16-37	GTG-F	FTG	1	Chapter 1 Guidelines on Fastener Design Allowable Usage	Agenda	FTG-1, GTG-3	Approved and Closed	C. Reakes presented this item for approval by the FTG on 9/22. D. Hall presented this item at the GTG for final approval on 9/24.
17-19	MTG		2	Addition of Transverse Bearing Strength Properties for Custom 465 Bar	Status	MTG-1	Closed w no Action	J. Rubadue proposed closing with no action. Carpenter does not intend to generate needed data. Alloy added to Item 20-36 with note that Carpenter does not intend to provide data.
17-23	GTG		9	Legacy Alloy Review Strategy – Near Term	On Hold		Not Covered	On hold till Fall 2020
17-25	GTG		9	Re-evaluation of Reduced Ratio Sample Size Determination	On Hold		Not Covered	On hold pending Item 15-36.

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	Final	Initial						
17-26	GTG	ASG/M ATSSG/ PSG	9	Guidelines for Generation and Use of A/B Allowables for Castings	Agenda	GTG-2	Approved w Changes and Closed	D. Hall presented this item. S. Thompson would like to see a reference to definition of material allowable before including. Suggested S-Basis properties. Needs to look at regulatory documents. Changes from ASG and MATSSG will be included. Agreed to MATSSG change and S-basis properties. Voted to approve with changes - 33 for, 7 no. Item 20-31 was opened to discuss MMPDS use of the terms design allowables and material allowables.
17-28	GTG-F	FTG	9	Consideration of Origin in Multiple Regression Analysis for Joint Allowables	Status	FTG-3	Continue	B. Krile presented a preliminary analysis for this item which is included in the Minutes.
17-29	GTG-F	FTG	9	Replacement of T90 Yield Curve with a Multiple-Regression Typical Yield Curve for Joint Allowables	Agenda	FTG-1	Continue	W. White presented this item. Consensus not reached. Will be circulated again for review. Legends and typos will be corrected.
17-30	GTG-F	FTG	9	Revision of Table Format for Joint Allowables	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
17-31	GTG-F		9	Sunset Shear Strength Rule Criteria Addition	Agenda	FTG-2, GTG-3	Approved and Closed	C. Shannon presented this item. It was discussed and approved by FTG and GTG.
17-32	GTG-F	FTG	9	Edit Table 8.1.5.1	Agenda		Not Covered	This item was not discussed.
17-34	GTG	SSWG	9	Guidelines for Rejection of Stress-Strain Curves from Parametric Analysis	Status		Not Covered	This item was not discussed.
17-45	MTG		3	Effect of Temperature Curves for 2395-T84 Extrusion	Status		Not Covered	This item was not discussed.

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	Final	Initial						
17-52	GTG	FatWG	9	Review Section 9.6.1 - Load and Strain Control Fatigue	Status		Not Covered	This item was not discussed.
17-54	MTG		3	Inclusion of Properties for AMS 4221, 2124-T8151 Plate	Status		Not Covered	This item was not discussed. This item is closed and incorporated into Item 20-35 "Alloys Requested for Analysis" per Item 20-12.
17-55	MTG	PSG	5	Supplemental Data for Ti-6-2-4-2 Forging	Status		Not Covered	This item was not discussed. This item was closed and incorporated into Item 20-36 Request for Secondary Property Data per Item 20-12.
17-56	MTG		3	FCG Analysis for 2397-T87 Plate	Status		Not Covered	This item was not discussed.
17-61	GTG	FatWG	9	Revising R-curve Requirement in Table 9.2.4	Status		Not Covered	This item was not discussed.
17-62	GTG	FatWG	9	Revising Fatigue Requirement in Table 9.2.4	Status		Not Covered	This item was not discussed.
17-63	GTG	FatWG	9	Use of Box-Cox Transformation in the Fitting of Fatigue Data	Status		Not Covered	This item was not discussed.
18-05	GTG	ASG/M ATSSG	9	Data Quantities for Large Thickness Ranges	Agenda	GTG-3	Approved w Changes and Closed	Text changes are captured in the ppt presentations to clarify the wording.
18-08	MTG		6	718 Investment Cast (AMS5383) Addition of Tensile A/B-basis and Elevated Temperature	Agenda	MTG-3	Continue	D. Hall presented this item. 13/27 voted to Approve. 14/27 Voted to continue. The EoT curve for %EL was missing. Thickness range of the original parts is needed.
18-10	GTG		9	Data Requirements for Forgings	On Hold		Not Covered	No action on this item.
18-13	GTG		9	Guidelines for Exclusion of Low Secondary Property Test Values	On Hold		Not Covered	On hold pending Item 15-36.
18-21	MTG		3	Upgrade S-basis to A/B-basis for 2219-T852 Aluminum Alloy Hand Forgings	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.

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18-28	GTG		9	Using the Logarithm Transformation with MIDAS Analysis of Minimum Properties	Agenda	GTG-2	Closed w no Action	C. Reakes presented this item to close with no action.
19-04	GTG	ETTG	V2	Considerations for Certifying an AM Part	Status		Not Covered	This item was not discussed.
19-05	GTG		9	Secondary Properties Requirement When Expanding Thickness Range in a Table	Agenda	GTG-2	60 Day Approval w ith changes	J. Rubadue presented this item. G. Bray's revision of paragraph was accepted with change to last sentence change "design allowable properties" to "A- and B-Basis properties". Roger suggest additional data required by user. Add footnote to column that secondary properties must be confirmed. See section 1..... B. Thomas said to change wording to "strongly recommended" from "recommended". Poll taken for/against - 29/5. A new Item was created to include words regarding testing (R. Reinmuller, R. Goode). Open a new item to document to identify where a footnote is needed on expanded range and to add the footnote to the example table.
19-10	MTG		6	Secondary Properties for 718 Bar per AMS 5662 and AMS 5663	Status		Not Covered	Data are needed. This item was closed and incorporated into Item 20-36 Request for Secondary Property Data per Item 20-12.
19-17	GTG	ETTG	V2	Minimum Content Requirements for Public Specifications - Volume II	Agenda	ETTG-2	Approved w Changes and Closed	D. Hall presented this item. Section 9.2.2.2.1, bullet 5 - Metallography should add ". . . and limits" to say ". . . requirements and limits". No objections to keeping text for 9.2.2.4.
19-19	GTG	FatWG	9	Consideration of a new Equivalent Stress model for Load-Controlled Fatigue	Status		Not Covered	This item was not discussed.

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	Final	Initial						
19-20	GTG	ETT	V2	Data Requirements for Volume II	Agenda/ Handout	ETT-2	Continue	D. Hall presented this item which was initially discussed in ETTG. Lots of discussions, resulting in removing C & D for now. Doug proposed 60Day approval removing C& D, accepting change on re-wording paragraph "Material allowables..." but leaving S-Basis for now. This would allow some progress and ability to include this in report. Comment that ETTG should be included to decide if it should be 60 day this is continued.
19-21	MTG		multi	Determine Buckling Notes for Existing Figures With Dual-Shape Parameters	Agenda	MTG-3	Continue	C. Shannon presented this item. This item was initially approved and closed, but errors were found while documenting the Minutes. This item will be continued, all buckling notes will be checked, and a new agenda will be prepared for the next meeting.
19-25	GTG		9	Guidelines for Derived Properties for Legacy Alloys	Agenda	A-3	Continue	J. Rubadue presented this item. ASG to discuss.
19-33	MTG		3	Upgrade Bearing Strength from S- to A-/B-Basis 7075-T6 Bare Sheet	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
19-34	GTG	PSG	9	Waive Requirement for Bearing and/or Shear Properties When Appropriate	Status		Not Covered	This item was not discussed.
19-35	GTG-F	FTG	9	Re-Evaluate R-Squared Acceptance Requirement for Fastener Shear or Tensile Strength Allowables	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
19-36	FTG		9	Update Section 9.2.4.7 Fastener Strength Table Sunset Clause	Status		Not Covered	This item was not discussed.
19-37	GTG-F	FTG	9	Establish a Guideline for Reinserting Chapter 8 Tables.	Status		Not Covered	This item was not discussed.

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19-38	ETTG		V2	Process Intensive Materials & Technologies SDO Coordination	Status		Not Covered	This item was not discussed. The CMH-17/MMPDS Workshop report will be included in the Minutes or sent to registered Attendees after final approval.
19-39	FTG	ASG	8	Review Chapter 8 Tables Removed by the Sunset Clause	Agenda	FTG-3	Continue	C. Shannon presented this item. R. Goode created a survey to identify critical fasteners to confirm and return to Chapter 8. ASG should review the survey list and provide input to FTG.
19-40	GTG		9	Review Section 9.4 Substantiation of Data	Handout	GTG-1	Continue	D. Hall presented this item. An agenda item will be prepared for the Spring meeting.
19-41	MTG		5	Confirmation of Design Properties of AMS 4911 for Ti-6Al-4V Sheet and Plate	Status		Not Covered	This item was not discussed. This item is closed and incorporated into Item 20-35 "Alloys Requested for Analysis" per Item 20-12.
19-42	MTG		3	Confirmation of Design Properties of AMS 4202 for 7475-T7351 Aluminum Alloy Plate	Status		Not Covered	This item was not discussed.
19-43	MTG		3	Upgrade of Design Properties of AMS 4154 for 7075-T6511 Aluminum Alloy Extrusion	Status		Not Covered	This item was not discussed. Kaiser and Universal Alloy have sent updated data sets. Arconic to send data set. An agenda will be prepared for the Spring meeting. Secondary properties need to be investigated.
19-44	MTG		multi	Update Stress-Strain Figures to Report Bron Method Relevance	Status		Not Covered	This item was not discussed.
19-45	MTG		3	Addition of A206.0-T4 and T71 Sand Casting Fatigue Analyses	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
19-46	FTG		8	Review Table 8.1.2(a)	Agenda	FTG-1	Closed w no Action	D. Hall presented this item. In future, consider redoing the table by removing driven material column.
20-01	MTG		3	Stabilization of AMS-QQ-A-200/3 for 2024 Alloy Extrusions	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.

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20-02	GTG		9	Editorial Correction for Section 9.6.1.11	Agenda	GTG-3	Approved and Closed	D. Hall presented this item.
20-03	GTG		9	MMPDS Review & Approval Process	Status	A-3	Continue	Was not discussed
20-04	GTG	ETT	V2	V2: MMPDS Review & Approval Process	Status		Not Covered	This item was not discussed.
20-05	MTG		6	L-605 ST Bar and Forging Creep Curve Correction	Agenda	GCC	Approved and Closed	This item was Agreed at the 35th Meeting. It was formally Closed as part of a Consent Agenda Item.
20-06	MTG		3	Addition of 2043-T85 Extrusion Tensile Stress-Strain Curves	Agenda	MTG-3	Approved and Closed	C. Shannon presented this item. A definition of Aspect Ratio is included in the Minutes.
20-07	MTG		3	Mechanical and Physical Properties for 7160-T7351 Aluminum Alloy Plate	Agenda	MTG-2	Approved w Changes and Closed	J. Rubadue and C. Shannon presented this item. Intro comments approved. Modulus correction will be made in the table. BMI to add info to minutes about COV ratios for shear and bearing. Other comments captured in the Chat. Stress-strain curves approved.
20-08	MTG	MATSS G	3	Mechanical and Physical Properties for 7160-T7451 Aluminum Alloy Plate	Agenda	MTG-2	Approved w Changes and Closed	J. Rubadue and C. Shannon presented this item. Comments captured in the Chat be summarized in the minutes. Create an item to re-analyze the data for Figure 14b. Stress-strain curves approved.
20-09	MTG		3	Expansion of Thickness Range for 6061-T651 Plate	Status		Not Covered	This item was not discussed. L & ST tensile data are needed. Basis of secondary properties to be researched.
20-10	MTG		3	Upgrade of Secondary Properties of 7075-T76511 Aluminum Alloy Extrusions	Status		Not Covered	This item was not discussed. It is related to Item 18-22 closed at the 34th meeting where derived properties in the 1-2 inch range were S-basis due to small sample size. Kaiser and Universal alloy agreed to supply data or material. AFRL agreed to testing. Data for 2.5-3 inch is also desired.

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20-11	GTG-F	FTG	9	Split Table 9.2.4 for Chapters 2-7 and Chapter 8	Agenda	FTG-1, GTG-3	Approved and Closed	D. Hall presented this item approved by FTG and presented to GTG.
20-12	MTG		multi	Maintenance for Alloys for Analysis	Agenda	A-3	Approved and Closed	J. Rubadue presented this item to consolidate several items into 2 items.
20-13	ETT	G	V2	CMH-17/MMPDS Coordination & Collaboration	Status	ETT-1	Continue	M. Gorelik provided an update on the virtual workshop. The report text is being reviewed for release. It will be provided to registered Attendees after final approval.
20-14	GTG	MATSS G/ASG	9	Discussion of Factors contributing to variance of Extrusion Stress-Strain Curves	Agenda	GTG-3	Closed w no Action	C. Shannon presented this item proposing close with no action.
20-15	GTG	MATSS G/ASG	9	Revisit Stress-Strain Data Generation Guidelines - Use of Extensometers	Status		Not Covered	This item was not discussed.
20-16	GTG	ETT	V2	MMPDS & Additive Metals - Program Plan	Present.	ETT-1	Continue	D. Hall provided an updated program plan.
20-17	GTG	ETT	V2	Components of Variance Analysis of AM, Cast, & Wrought 718	Handout	ETT-3	Closed w no Action	D. Hall presented this item. Discussed in ETTG and briefly in GTG.
20-18	MTG		2	Updates to Low Alloy Steel tables	Agenda	MTG-1	Continue	J. Rubadue presented this item for discussion. Not all topics were addressed. Comments were captured and will be included in Spring Agenda.
20-19	GTG	ETT	V2	Acceptance Testing Comparisons: Producers vs. Consumers Risk	Handout	ETT-3	Closed w no Action	B. Krile presented this topic. A presentation is included in the Minutes.
20-20	GTG	ETT	V2	Definitions for Volume II	Agenda	ETT-2	Continue	D. Hall presented this item. Revisions are needed to reflect many concerns. An agenda item will be created for the Spring
20-21	FTG		8	Proposed Test Plan for Static Joint Strength of 100° Flush Shear Head Blind Rivets	Present.	FTG-2	Closed w no Action	P. Keller presented new information about the test plan. A new item will be opened when data are received.

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20-22	GCC		All	Consent Agenda Item: Approve and Close items that were Agreed or Agreed w/Changes from the 35th meeting.	Agenda	GCC	Approved and Closed	D. Hall presented this item to Approve & Close Agenda Items 11-15, 16-29, 17-30, 18-21, 19-33, 19-35, 19-45, 20-01, and 20-05.
20-23	MTG		3	Stress-Corrosion Cracking of 7160 Aluminum Alloy Plate	Agenda	MTG-3	Approved and Closed	J. Rubadue presented this item adding SCC to tables.
20-24	MTG		2	Correction to 300 Stainless Steel Elongation Properties	Agenda	MTG-1	Approved and Closed	J. Rubadue presented this item. Battelle will confirm that the symbol is ">" not "≥" and document that confirmation in minutes.
20-25	MTG		2	Stabilization for AISI 1025 Tubing Specifications	Agenda	MTG-1	Approved and Closed	J. Rubadue presented this item. Final tables will be shown in the minutes.
20-26	MTG		7	Update References for Beryllium Toxicity	Agenda	MTG-1	Approved and Closed	J. Rubadue presented this item. Final changes will be shown in the minutes.
20-27	MTG		3	Specification Changes for Aluminum Alloys	Agenda	MTG-1	Approved and Closed	J. Rubadue presented this item. M. Niedzinski commented that AMS 4330 was stabilized was based on a mistaken assumption that it was not being used. AMS will rebalot to move it back to Active status. The ballot closes on 9/27/20. Changes for AMS 4025 will be shown in minutes.
20-27	MTG		3	Specification Changes for Aluminum Alloys	Handout	MTG-1	Approved and Closed	The handout was informational only and did not include changes for MMPDS. A new item will be created when BMI receives data for this alloy and will note which quench process was used.
20-28	GTG		9	Addition of Punch Shear Footnote	Agenda	GTG-3	Approved w Changes and Closed	J. Rubadue presented this item. Remove sentence "Results may be conservative."

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20-29	GTG		9	Analysis of Bearing and Shear Properties with Reduced Ratios	Status	A-3	Continue	B. Krile discussed this item related to Item 19-28 (34th minutes). Discussion on possible compromise to allow indirect using bearing or shear in primary direction of 100 samples as primary and pairing other bearing or shear with the primary. This will be irrelevant if Item 15-36 is implemented. Attendees indicated interest in continuing evaluating this until 15-36 is finalized. Prepare agenda item to update results from Item 19-28.
20-30	GTG	ETT	V2	Components of Variance Analysis of AM, Cast, & Wrought Ti 6-4	On Hold		Not Covered	This item was not discussed.
20-31	GTG		9	Definitions of "Design Allowable", "Design Value", and "Material Allowables"	Agenda		New	From Item 17-26. These terms are used interchangeably in MMPDS. Item 20-22 attempted to make them specific. This contradicts some agency regulations. It must be clear within MMPDS and consistent between volumes.
20-32	GTG		9	"Should", "Shall", "Must" decision for MMPDS program	Agenda		New	There are differences of opinion whether "shall" means "must". It must be clear within MMPDS and consistent between volumes. Query other SDOs to find out how they have addressed this.
20-33	MTG		3	2196-T8511 Aluminum Extrusion Analysis and Upgrade	Agenda		New	This item was created at the 36th meeting. If there is more than one supplier please notify BMI
20-34	GTG		9	Addition of Footnote for Expanded Thickness Ranges with No Secondary Properties	Agenda		New	From Item 19-05 to add footnote to tables with expanded thickness ranges showing A- and B-Basis minimums. Identify tables.
20-35	MTG		multi	Alloys Requested for Analysis	Agenda		New	This item was created from Item 20-12
20-36	MTG		multi	Request for Secondary Property Data	Agenda		New	This item was created from Item 20-12
20-37	MTG		3	Re-analysis of 7160-T7451 BUS e/D=2.0 (S-L)	Agenda		New	This item was created from Item 20-08 (Figure 14b).

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21-NIN	GTG		9	User Testing of Secondary Properties for an Existing Table w/Expanded Thickness Range	Agenda		New	From Item 19-05 R. Reinmüller, R. Goode, J. Bennett will provide text for an agenda item in the Spring.