

32nd MMPDS Coordination Meeting

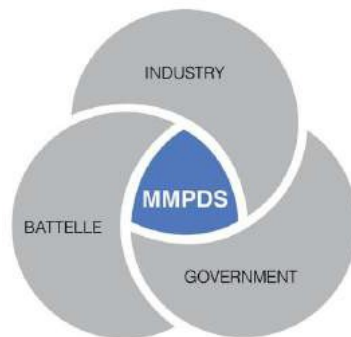
AGENDA BOOK

To be held in:

Scottsdale, Arizona

September 10-13, 2018

PUBLIC VERSION



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Announcing the
32ND MMPDS COORDINATION MEETING

September 10-13, 2018 Embassy Suites, Scottsdale, AZ

Meeting Schedule

A meeting registration form, a preliminary summary of Agenda Items, and a detailed meeting schedule is attached and can also be found on the MMPDS website at www.mmpds.org.

Noteworthy:

- The Industrial Steering Group (ISG – members and invited guests only) and the Government Steering Group (GSG - members and invited guests only) will meet separately beginning at 1:00 pm Monday, September 10. On Tuesday, September 11, at 8:00 am, the Joint ISG/GSG member only group meeting will take place in the morning. Beginning 10:15, all meeting attendees, regardless of membership, are invited to attend ASG or MATSSG, as appropriate for your organization.
- A lunch buffet is included with meeting fees on Tuesday, Wednesday, and Thursday.
- Thursday, at 3:00 pm, the General Coordination Committee (GCC) will take place.
- A sortable version of the Agenda Summary is available on both the member SharePoint site, or for non-members, it can be found at www.mmpds.org, under the tab for Meetings.

Registration

Meeting attendees will receive a discounted rate for advanced registration if the completed Registration Form, including method of payment, is returned to Battelle by August 25, 2018. Battelle will be coming out with a new secure payment plan in the near future. In the meantime, please call Anne Mundy (614-424-6496) or Kelly Novak (614-424-6454) to pay with credit card numbers.

Hotel Accommodations

The Embassy Suites by Hilton Phoenix-North Scottsdale 4415 E. Paradise Village Parkway S. Phoenix, AZ
85032 MMPDS Meeting Hotel Room Group Rate is \$124.00 USD.

[https://embassysuites.hilton.com/en/es/groups/personalized/P/PHXPVES-MMP-20180906/index.jhtml?](https://embassysuites.hilton.com/en/es/groups/personalized/P/PHXPVES-MMP-20180906/index.jhtml?WT.mc_id=POG)

[WT.mc_id=POG](#). **Enter MMP for Group Code**. Cut-off date for reserving rooms is August 25 at 5 pm EST or earlier, assuming rooms are not sold out prior to that date. It is strongly recommended that you make your reservation as soon as possible as the number of available rooms is limited. Rates are offered for 3 days before and after the meeting as well, subject to availability.

Or you can phone our toll-free number 1-800-EMBASSY. In doing so, please ask your attendees to request the group rate for MMPDS Coordination Meeting. The link only will work if there is room inventory available on the dates the guest is requesting. Please contact mundya@battelle.org should inventory become an issue.

You can also call in your reservation directly with the Hotel reservation department by calling 602-765-5800 to get the \$124.00 USD rate.

If you wish to cancel, please do so 48 hours prior to arrival to avoid cancellation penalties.



The Group room rate includes the following:

FREE:

- o Wireless Internet Access – High speed Internet in all rooms and the lobby.
- o Embassy Suites Signature cooked to order breakfast
- o Embassy Suites Signature evening reception
- o Complimentary parking.
- o Complimentary Wifi in guest rooms

Check In Time: 3:00pm Check Out Time: 11:00am

A valid credit card and photo ID to be presented at check in. Arrangements may be made for baggage storage with the Hotel's front desk staff.

Questions? Please email mundya@battelle.org. We look forward to seeing you in Scottsdale, AZ.

32nd MMPDS Coordination Meeting Schedule

September 10-13, 2018, Scottsdale, AZ

Time	Monday	Tuesday	Wednesday	Thursday		
7:30 am		Continental Breakfast	Continental Breakfast	Continental Breakfast		
8:00 am		Joint ISG/GSG (Members only)	GTG	GTG (FTG-related Items)		
8:30 am				MTG	FTG	
10:00 am				Break		
10:15 am		MATSSG (Material Suppliers, Test Services only)	ASG (Airframers Only)	GTG	MTG	FTG
12:00 pm		Lunch (buffet included in fee)		Lunch (buffet included in fee)	Lunch (buffet included in fee)	
1:00pm		ISG (Members only)	GSG (Members only)	GTG	MTG	FTG
2:00 pm		ETWG		MTG	WWG	
2:30 pm		Break		Break		
2:45 pm		ISG (Members only)	GSG (Members only)	Break		
3:00 pm	ETWG			PSG	GCC - Please attend. Resolve/review final decisions and discuss plans for upcoming meetings.	
3:15 pm				FatWG		
4:00 pm						
5:00 pm						
6:00 pm						

KEY:

ASG: Airframer Steering Group

ETWG: Emerging Technology Wo

32nd MMPDS Coordination Meeting

ETWG Agenda

September 11, 2018, 1:00 – 6:00 PM

1:00 PM

- **Introductions and Opening Statement** – Mark Freisthler, FAA
 - Scope of ETWG
- **Volume II Working Group** – Doug Hall, Battelle
 - Original Objectives
 - Goals for this meeting

1:15 PM - Presentations

- **AMSC Activities** – Michael Gorelik, FAA
- **America Makes Project 4033** – Michael Hahn – Northrop Grumman
- **AMS-AM Specifications** – Doug Hall, Battelle
 - **AMS 7000 – Data Analysis – Alloy 625 LPBF**
 - **AMS 7004 – Data Analysis – Ti 6-4 DED**
- **Sources of Variation on Powder-bed Additive Manufacturing Processes**
– Matias Garcia-Avila, ATI

3:00 PM – Break

3:15 PM – Topical discussions

- **Volume II WG – Accomplishments to Date**
- **Minimum Specification Requirements**
- **Data Submission Requirements – “Table 9.2.4”**
- **Test Matrix**
- **Agenda Item 16-20 – Equivalency Assuming a Change in Process Has Occurred**

5:45 PM

- **Summarize action items and Wrap-Up**

32nd MMPDS Coordination Meeting

Agenda Item Summaries

**(Item, Task Group, Steering
Group)**

32nd MMPDS Coordination Meeting

AGENDA ITEM SUMMARY

Sorted By Item Number

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
ASG		1	Review of Currency of Existing Database on Legacy Alloys	Agenda	J. Rubadue will prepare an agenda item
		8	Fastener Tables of Sunset Review Interest	On Hold	No effort expected at this time
		8	Sunset Review of Table 8.1.3.2.2(c), NAS1921C	On Hold	No effort expected at this time
		8	Sunset Review of Table 8.1.3.2.3(a), MS21140	Status	C. Shannon will present status of this item More shear data are requested.
ASG	ASG	2	Wrought Steels S-Basis Summary	Status	No effort is expected to be made on this item.
ASG		3	Wrought Aluminum Alloys with S-Basis Minimums	Agenda	J. Rubadue will prepare an agenda item
ASG		3	Mechanical Properties for Aluminum Alloy Forgings	Status	2219-T852 Hand Forgings has been assigned Item 10 for stress analysis with data from 2 suppliers. Data for 6061-T6 Forging per AMS4248 is requested. This is currently pending MMPDS.
ASG		3	Re-evaluate Legacy Alloy Stress-Strain Curves in Chapter 3	On Hold	No effort expected at this time
F	FTG	9	Fastener Installation Parameters for Joint Tension Allowables	Status	C. Shannon will present the status of this item if we have received Boeing's example problems.
ASG		1	AMS Coordination	Status	The next AMS Metals Committee Meeting will be held the week following the MMPDS Meeting, September 17-18, 2014, Minneapolis, MN.
ASG		2	Division of Low Alloy Steel Table 2.3.1.0(g2)	Status	No effort is expected to be made on this item.
		8	Sunset Review of Flush Head, Mechanical Lock Spindle Blind Rivet Table 8.1.3.2.2(e) NAS 1921 M	On Hold	No effort expected at this time
		8	Supporting Data and Basis Identification for Table 8.1.2(b)	Status	C. Shannon will present the status of this item More data are requested
ASG	ASG/	2	Footnote for Steel When Test Specimen is Not	Status	D. Hall will present status of this item

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AGENDA ITEM SUMMARY

Sorted By Item Number

Responsible Group		Chpt	Title	Type	32nd Meeting Description
Item	Initial				
F	FTG	9	Modification to the Sunset Criteria Procedures	Status	C. Shannon will present status on this item at the
S		3	Bearing Strength Reduction for Edgewise Orientation from Extruded Bar	Status	This item is on hold until data from additional alloys are received.
S		5	Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	Status	Data are expected from ATI, Arconic, and AFRL. If data are received in time, an agenda will be prepared.
S	MATSSG	6	Upgrade S-Basis to A- and B-Basis for 718 Bar Nickel-Base Alloys per AMS 5962	Agenda	J. Rubadue will prepare an agenda item
S		3	Addition of ST Bearing Properties for 7085-T7451 Plate	Status	If data are received in time, an agenda item will be prepared.
S		9	ASTM Coordination	Status	D. Hall will present status of this item. H. Jesequel, G. Bray, & S. Thompson may contribute.
S		9	Inclusion of Kisi Fracture Toughness Data	Status	D. Hall will present status on this item
S		4 thru 7	Identification of Stress-Strain Curves Which Have Been Evaluated for 2-Shape Factor for Chapters 4-7	Status	No effort expected at this time
S		8	Sunset Review of Table 8.1.4.2(i), LGPL2SC-V Pin, 3SLC-C Collar in Clad 7075-T6	Status	No effort expected at this time
S	PSG	9	Update Creep Guidelines	On Hold	D. Hall will propose closing of this item with no action. The focus has shifted to a Chapter 1 revision, which is being covered under Item 18-09.
S		9	Evaluate Inclusion of other Fracture Toughness Data (JIC, KJIC)	Agenda	D. Hall will present this agenda item
S		2	Addition of 15-5PH Sheet S-Basis per AMS 5862 for H1025 Condition	Status	Data are needed.

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AGENDA ITEM SUMMARY

Sorted By Item Number

Responsible Group	Chpt	Title	Type	32nd Meeting Description
	9	Guidelines for Strain-Rate Sensitive Materials	Status	D. Hall will lead discussion on this item. The primary focus of this meeting will be on 1) clarification of the specific requirements for this item and 2) availability of desired information regarding testing strain rates Propose close with "Close with No Action"?
	9	Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature	Status	D. Hall will present this item, which will include examples of problems involving the current and proposed new methods with several different sample sizes
ASG/ MATSSG	9	Guidelines for When Specimens Are Not From Full Thickness	Status	This item is related to Item 12-16 and will be discussed by the new steel working group listed with that item.
	3	Casting Allowables for 15-5PH and 17-4PH steel	Status	D. Hall will present the status of this item.
MATSSG	9	Cross-Sectional Information Requirement for Extrusions	Agenda	J. Rubadue will prepare an agenda item
ASG/ MATSSG / GSG	9	Periodic Testing of Materials for Derived Properties	Handout	D. Hall will present this item. Propose to Close with No Action
	9	Updates to Strain Departure Methods for Stress-Strain Curve Analyses	Status	C. Shannon will provide a brief update on why this item was first proposed. Since it is a low priority no action has been taken to date.
ASG	3	Legacy Alloy 7075-T6 Indirect Properties Update	Agenda	J. Rubadue will prepare an agenda item for both bare and clad sheet.
		Identifying Basis of Fastener Shear Strength on Remaining Tables	Status	The identified tables of interest are having their shear strength reviewed by the table owner. New data, where applicable, is being requested.
	8	Corrections to Table 8.1.3.2.2(c) NAS 1921C	Status	C. Shannon will present the status of this item
ETWG	9	Emerging Technology Working Group	Agenda	D. Hall will present this agenda item. See the Agenda for the ETWG meeting. Review progress by the Volume II Working Group Discussion of Equivalency Testing (Item 16-20) Test Matrix "Table 8.1.3.2.2(c)"

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AGENDA ITEM SUMMARY

Sorted By Item Number

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
	ASG	1	Review of Section 1.4.7 Bearing Properties	Status	D. Hall will lead discussion of this item. ASG needs to and offer a revision to the proposed text.
		2	AM-355 Stainless Steel in SCT850 Condition	Status	No effort is expected to be expended on this item. Not using this condition right now.
	MATSSG	3	Mechanical Properties for 7097-T7651 Aluminum Alloy Plate	Agenda	C. Shannon will present this agenda item. The data properties were previously approved and included in meeting minutes. This item adds the remainder of the section and stress-strain curves.
		9	Review Guideline on Stress-Strain Submittal for Number of Curves per Thickness Range	Agenda	C. Shannon will present this item, which will include proposed changes to Table 9.2.4.
F	FTG	9	Use of T99 as A-Basis When Higher than Specification for Fastener Shear and Tension	Handout	C. Shannon will present this agenda item.
F	FTG	1	Chapter 1 Guidelines on Fastener Design Allowable Usage	Handout	C. Shannon will present this agenda item at the GTG
		7	Estimated Values in Table 7.3.2.0(c) Copper Beryllium Strip	Status	No effort is expected to be expended on this item
		9	Update Static Property Examples in Section 9.8.1	Agenda	J. Rubadue will present an agenda item with an initial showing results to date.
		3	Fatigue Curves for 2099-T83 Extrusion	Status	D. Hall will provide a status report. No action due to priority.
		4	Fatigue Curve for 2099-T81 Extrusion	Status	D. Hall will provide a status report. No action due to priority.
		2	Addition of Transverse Bearing Strength Properties for Custom 465 Bar	Status	If data are received in time, an agenda item will be prepared
		9	Legacy Alloy Review Strategy – Near Term	Status	D. Hall will review status of this item
					D. Hall will review status of this item

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AGENDA ITEM SUMMARY

Sorted By Item Number

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
		9	Sunset Shear Strength Rule Criteria Addition	Handout	C. Shannon will present this agenda item at the GTG
F	FTG	8	Edit Table 8.1.5.1	Agenda	C. Shannon will present this agenda item at the GTG
	PSG	9	Alternative Fitting Function for Effect of Temperature Data	Status	D. Hall will review this item.
	SSWG	9	Guidelines for Rejection of Stress-Strain Curves from Parametric Analysis	Status	C. Shannon will provide a status report on this low pr item.
			Stress-Strain Curve Working Group	Status	E. Hernandez will present status of this working
		3	R-Curve for Alclad 2029-T8 Aluminum Alloy Sheet	Handout	D. Hall will review this item.
		3	R-Curves for 2624-T39 and T351 Aluminum Alloy Plate	Agenda	D. Hall will review this item.
		9	Clarification of Ten-Lot Minimum Requirement for Derived Properties	Status	J. Ruaadue to present status.. Revision of Footnote (Table 9.2.4.1 will be discussed at the meeting.
		3	Effect of Temperature Curves for 2395-T84 Extrusion	Status	D. Hall will review this item.
F	FTG	9	Clarification of Guidance for Normal/Censored Normal Analysis	Status	C. Shannon will discuss with FTG to determine the in this item. Also review item 15-17 from the 30th mee
	FatWG		Review Section 9.6.1 - Load and Strain Control Fatigue	Status	D. Hall will lead discussion on this item.
		3	Inclusion of Properties for AMS 4221, 2124-T8151 Plate	Status	Data are requested.
	PSG		Supplemental Data for Ti-6-2-4-2 Forging	Status	D. Hall will review the amount of fatigue, creep and growth data that is available. Depending on the resu 2018 ballot there may be some progress to report on

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AGENDA ITEM SUMMARY

Sorted By Item Number

Responsible Group	Chpt	Title	Type	32nd Meeting Description
ASG, MATS	9	Pairing of Tensile Coupon with Shear and Bearing Orientations	Status	The 31st agenda item will be discussed at this meeting
ASG, MA	3	Environmentally Assisted Cracking in Aluminum Alloys (EASA SIB 2018-04)	Status	MATSSG, ASG, to discuss and possibly close additional documentation
MATSSG	9	Determine Minimum Thickness for Die-forging Bearing Tests	Agenda	G. Bray, Arconic, prepared this agenda item which adds clarifications to Sections 1.4.7.2, 9.2.3.2 and 9.2.3.3.
MATSSG	9	Data Quantities for Large Gage Ranges	Agenda	This agenda will be discussed in MATSSG.
FTG	9	Revision of Figure 9.3.4.4 Failure Codes for Fasteners	Handout	C Shannon will present this agenda item at the FTG
WWG	8	Review of Inconsistencies in Table 8.2.2.1.2(d) for Spot-Weld Joints	Agenda	C. Shannon will present this item. This was Table 8.2.2.1.2(d) prior to MMPDS-13.
	6	718 Investment Cast (AMS5383) Addition of Tensile A/B-basis and Elevated Temperature	Handout	D. Hall will present this handout item
	1	Update Creep Guidance in Chapter 1	Status	D. Hall will lead discussion of this item and attempt to address the issues of greatest importance in the revision of Chapter 1, Section 1.4.8
	9	Data Requirements for Forgings	Status	This item will be discussed in the GTG.
	3	Stress-Strain Curves for 2050-T852 Aluminum Alloy Die Forging 4.000-6.000 inch	Status	C. Shannon will present status on this item. Aubert & Duval provided original data but additional data is needed to complete the analysis
	9	Guidelines for Smooth Transition of Properties Across Thickness Ranges	Status	B. Krile will present the status of this item
	9	Guidelines for Exclusion of Low Secondary Property Test Values	Status	J. Rubadue will present status on this item
	3	Addition of A206.0-T4 and T71 Sand Casting Stress-Strain Curves, Physical Properties, and Fatigue Analyses	Handout	D. Hall will present this item.

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AGENDA ITEM SUMMARY

Sorted By Item Number

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
		3	Upgrade S-basis to A/B-basis for 2219-T852 Aluminum Alloy Hand Forgings	Status	This item is a spin-off from Item 10-15. Data are available from Weber and Alcoa. If there is sufficient time for an agenda item will be prepared.
		3	Legacy Confirmation and Upgrade to A- and B-basis for 7075-T76511 Extrusion	Status	This item is a spin-off from Items 03-14 and 10-15. Data available from Alcan, Kaiser, and Universal Alloy. If there is sufficient time for analysis, an agenda item will be prepared.
		3	Upgrade of 7XXX Series Fatigue Curves	Agenda	D. Hall will present this agenda item.
		5	Contemporary Tension and Compression Modulus Data for Ti-6Al-4V Annealed Sheet	Agenda	Boeing submitted this agenda item to add modulus vs. temperature sheet properties.
		3	Proposal for AA/ANSI Alloy Designation System for Aluminum Alloy Powder and Parts	Presentation	G. Bray, Arconic will give this presentation during the meeting. Feedback is requested on the proposed designation system for aluminum powders.
		6	Secondary Properties for 718 Bar per AMS 5662 and AMS 5663	Status	Compression, shear, and bearing data are requested.
		3	Introduction to AA7160: A New Family of High Strength, High Toughness, and Corrosion Resistant Plate by Scott Buchwald	Presentation	S. Buchwald, Constellium, will give this presentation during the MTG on two new tempers of 7160 aluminum alloy.
		4	Introduction to Elektron 21 (EV31A) Billet and Slab for Machine from Solid Applications	Presentation	D. Cleveland, Luxfer, will give this presentation during the MTG.
		9	Using the Logarithm Transformation with MIDAS Analysis of Minimum Properties	Presentation	J. Goodman, Arconic, will give this presentation during the MTG.

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AGENDA ITEM SUMMARY

Sorted By Steering and Working Group

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
Steering Group					
ASG		1	Review of Section 1.4.7 Bearing Properties	Status	D. Hall will lead discussion of this item. ASG needs to review and offer a revision to the proposed text.
ASG		2	Wrought Steels S-Basis Summary	Status	No effort is expected to be made on this item.
ASG		3	Legacy Alloy 7075-T6 Indirect Properties Update	Agenda	J. Rubadue will prepare an agenda item for both bearing and clad sheet.
ASG		multi	Identification of Forging Types for Tables with A- and B-basis	Agenda	J. Rubadue will prepare an agenda item. The ASG will discuss rewording of footnotes when material is forged billet.
ASG/ MATSSG		9	Pairing of Tensile Coupon with Shear and Bearing Orientations	Status	The 31st agenda item will be discussed at this meeting.
ASG/ MATSSG		9	Guidelines for When Specimens Are Not From Full Thickness	Status	This item is related to Item 12-16 and will be discussed with the new steel working group listed with that item.
ASG/ MATSSG		2	Footnote for Steel When Test Specimen is Not From Full Thickness	Status	D. Hall will present status of this item.
ASG/ MATSSG / GSG		9	Periodic Testing of Materials for Derived Properties	Handout	D. Hall will present this item. Propose to Close with No Action
ASG/ MATSSG / PSG		9	Guidelines for Generation and Use of A/B Allowables for Castings	Handout	D. Hall will review this handout item.
Emerging Technology Working Group					
ETWG		9	Emerging Technology Working Group	Agenda	D. Hall will present this agenda item. See the Agenda for the ETWG meeting. Review progress by the Volume II Working Group. Discussion of Equivalency Testing (Item 16-20)
ETWG		1	Equivalence Testing Assuming Change in Process (From Item 11-40)	Handout	B. Krile will present this item, which will include the recent simulations in which the merits and limitations of the Boeing SPC method, and the Battelle low values and
ETWG			Northrop Grumman Design Allowables for Additive Ti 6-4	Presentation	If available, a presentation will be made

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AGENDA ITEM SUMMARY

Sorted By Steering and Working Group

Responsible Group		Chpt	Title	Type	32nd Meeting Description
Initial					
Materials and Testing Services Steering Group					
	MATSSG	9	Cross-Sectional Information Requirement for Extrusions	Agenda	J. Rubadue will prepare an agenda item
	MATSSG	9	Determine Minimum Thickness for Die-forging Bearing Tests	Agenda	G. Bray, Arconic, prepared this agenda item with clarifications to Sections 1.4.7.2, 9.2.3.2 and 9.2.3.3
	MATSSG	9	Data Quantities for Large Gage Ranges	Agenda	This agenda will be discussed in MATSSG.
	MATSSG	6	Footnote for Non-Ferrous Alloys Test Specimen When Not From Full Thickness	Status	This item is on hold until Item 12-16 is done.
	MATSSG	6	Upgrade S-Basis to A- and B-Basis for 718 Bar Nickel-Base Alloys per AMS 5962	Agenda	J. Rubadue will prepare an agenda item
	MATSSG	3	Mechanical Properties for 7097-T7651 Aluminum Alloy Plate	Agenda	C. Shannon will present this agenda item. The mechanical properties were previously approved and included in the meeting minutes. This item adds the remainder of the test section and stress-strain curves.
	ASG/ MATSSG	9	Pairing of Tensile Coupon with Shear and Bearing Orientations	Status	The 31st agenda item will be discussed at this meeting.
	ASG/ MATSSG	9	Guidelines for When Specimens Are Not From Full Thickness	Status	This item is related to Item 12-16 and will be discussed at the new steel working group listed with that item.
	ASG/ MATSSG	2	Footnote for Steel When Test Specimen is Not From Full Thickness	Status	D. Hall will present status of this item.
	ASG/ MATSSG / GSG	9	Periodic Testing of Materials for Derived Properties	Handout	D. Hall will present this item. Propose to Close with No Action
	ASG/ MATSSG / PSG	9	Guidelines for Generation and Use of A/B Allowables for Castings	Handout	D. Hall will review this handout item.
	ASG/ MATSSG / GSG	3	Environmentally Assisted Cracking in Aluminum Alloys (EASA SIB 2018-04)	Status	MATSSG, ASG, to discuss and possibly close after documentation
Design Steering Group					

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AGENDA ITEM SUMMARY

Sorted By Steering and Working Group

Responsible Group	Chpt	Title	Type	32nd Meeting Description
Steering and Working Group				
WWG	8	Review of Inconsistencies in Table 8.2.2.1.2(d) for Spot-Weld Joints	Agenda	C. Shannon will present this item. This was Table 8.2.2.1.2(d) prior to MMPDS-13.
	8	Fastener Tables of Sunset Review Interest	On Hold	No effort expected at this time
	8	Sunset Review of Table 8.1.3.2.2(c), NAS1921C	On Hold	No effort expected at this time
	8	Sunset Review of Table 8.1.3.2.3(a), MS21140	Status	C. Shannon will present status of this item More shear data are requested.
	8	Sunset Review of Flush Head, Mechanical Lock Spindle Blind Rivet Table 8.1.3.2.2(e) NAS 1921 M	On Hold	No effort expected at this time
	8	Supporting Data and Basis Identification for Table 8.1.2(b)	Status	C. Shannon will present the status of this item More data are requested
	8	Sunset Review of Table 8.1.4.2(i), LGPL2SC-V Pin, 3SLC-C Collar in Clad 7075-T6	Status	No effort expected at this time
		Identifying Basis of Fastener Shear Strength on Remaining Tables	Status	The identified tables of interest are having their shear strength reviewed by the table owner. New data, where applicable, are being requested.
	8	Corrections to Table 8.1.3.2.2(c) NAS 1921C	Status	C. Shannon will present the status of this item
	9	Sunset Shear Strength Rule Criteria Addition	Handout	C. Shannon will present this agenda item at the GTG
	8	Update AMS-QQ-A-250/4 in Table 8.2.2.1.2(a) (MMPDS-13)	Agenda	C. Shannon will present this agenda item in the
	9	ASTM Coordination	Status	D. Hall will present status of this item.

32nd MMPDS Coordination Meeting

AGENDA ITEM SUMMARY

Sorted By Steering and Working Group

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
		9	Guidelines for Modulus When Average Value is Insufficient	Agenda	D. Hall will present this brief item.
		9	Review Guideline on Stress-Strain Submittal for Number of Curves per Thickness Range	Agenda	C. Shannon will present this item, which will include changes to Table 9.2.4.
		9	Update Static Property Examples in Section 9.8.1	Agenda	J. Rubadue will present an agenda item with an initial showing results to date.
		9	Legacy Alloy Review Strategy – Near Term	Status	D. Hall will review status of this item
		9	Re-evaluation of Reduced Ratio Sample Size Determination	Agenda	D. Hall will review this brief item that will clarify the issues that led to establishment of this item, and he will provide clarification on the most important next steps, should be sufficient to pursue this item in more detail.
			Stress-Strain Curve Working Group	Status	E. Hernandez will present status of this working group
		9	Clarification of Ten-Lot Minimum Requirement for Derived Properties	Status	J. Rubadue to present status.. Revision of Footnote Table 9.2.4.1 will be discussed at the meeting.
		9	Revising R-curve Requirement in Table 9.2.4	Status	D. Hall will present this item to modify the requirement in Table 9.2.4. Currently, R-curve is required when included in the specification.
		1	Update Creep Guidance in Chapter 1	Status	D. Hall will lead discussion of this item and attempt to address the issues of greatest importance in the revision of Chapter 1 Section 1.4.8
		9	Data Requirements for Forgings	Status	This item will be discussed in the GTG.
		9	Guidelines for Smooth Transition of Properties Across Thickness Ranges	Status	B. Krile will present the status of this item

32nd MMPDS Coordination Meeting

AGENDA ITEM SUMMARY

Sorted By Steering and Working Group

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
		1	AMS Coordination	Status	The next AMS Metals Committee Meeting will be held the week following the MMPDS Meeting, September 17-18, 2014 in Minneapolis, MN.
		2	Division of Low Alloy Steel Table 2.3.1.0(g2)	Status	No effort is expected to be made on this item.
		5	Design Allowable Properties for Ti-3Al-2.5V Tubing	Status	Progress on this item will begin as soon as requested data has been obtained from Sandvik and Haynes. Both companies have indicated willingness to submit data, but have not yet done so.
		2	21-6-9 (Nitronic 40) Tubing	Status	Data are requested for AMS5561 tubing. If data are received in time, an agenda item will be prepared.
		3	Bearing Strength Reduction for Edgewise Orientation from Extruded Bar	Status	This item is on hold until data from additional alloys are received.
		5	Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	Status	Data are expected from ATI, Arconic, and AFRL. If data are received in time, an agenda will be prepared.
		3	Addition of ST Bearing Properties for 7085-T7451 Plate	Status	If data are received in time, an agenda item will be prepared.
		4 thru 7	Identification of Stress-Strain Curves Which Have Been Evaluated for 2-Shape Factor for Chapters 4-7	Status	No effort expected at this time
		2	Addition of 15-5PH Sheet S-Basis per AMS 5862 for H1025 Condition	Status	Data are needed.
		3	Addition of 3-6 Inch Range for 7075-T73X Bar and Rod per AMS 4124	Status	Data are needed.
		multi	Clarification of Shear Orientation for Legacy Alloys	Agenda	J. Rubadue will present this agenda item for 7075-T73X Bar and Rod.
		3	Casting Allowables for 15-5PH and 17-4PH Steel	Status	D. Hall will present the status of this item.

32nd MMPDS Coordination Meeting

AGENDA ITEM SUMMARY

Sorted By Steering and Working Group

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
g		3	Effect of Temperature Curves for 2395-T84 Extrusion	Status	D. Hall will review this item.
g		3	Inclusion of Properties for AMS 4221, 2124-T8151 Plate	Status	Data are requested.
g			FCG Analysis for 2397-T87 Plate	Status	D. Hall will review the amount of crack growth data available. Depending on the results of the 2018 ball may be some progress to report on, as well.
g			Re-evaluate Fatigue Analysis for 2024-T4 Multiple Product Forms	Status	D. Hall will present status of this item
g			How Casting Specification Work	On Hold	No effort expected at this time
g		6	718 Investment Cast (AMS5383) Addition of Tensile A/B-basis and Elevated Temperature	Handout	D. Hall will present this handout item
g		3	Stress-Strain Curves for 2050-T852 Aluminum Alloy Die Forging 4.000-6.000 inch	Status	C. Shannon will present status on this item. Aubert & Duval provided original data but additional needed to complete the analysis
g		3	Addition of A206.0-T4 and T71 Sand Casting Stress-Strain Curves, Physical Properties, and Fatigue Analyses	Handout	D. Hall will present this item.
g		3	Full-Range Stress-Strain Curves for 2050-T852 Aluminum Alloy Die Forging	Agenda	C. Shannon will present this agenda item
g		3	Design Allowable Properties for 7160-T7651 Aluminum Alloy Plate	Agenda	J. Rubadue will present this agenda item.
g		5	Legacy Confirmation for Ti-6-4 Investment Castings per AMS4992	Status	This item is a spin-off from Item 03-14. Data are available from Howmet and PCC. If there is sufficient time for analysis, an agenda item will be prepared.
					This item is a spin-off from Item 03-14. Data are available from Howmet and PCC. If there is sufficient time for analysis, an agenda item will be prepared.

32nd MMPDS Coordination Meeting

AGENDA ITEM SUMMARY

Sorted By Steering and Working Group

Responsible Group		Chpt	Title	Type	32nd Meeting Description
Initial					
		3	Proposal for AA/ANSI Alloy Designation System for Aluminum Alloy Powder and Parts	Presentation	G. Bray, Arconic will give this presentation during the meeting. Feedback is requested on the proposed designations for aluminum powders.
		6	Secondary Properties for 718 Bar per AMS 5662 and AMS 5663	Status	Compression, shear, and bearing data are required.
		3	Introduction to AA7160: A New Family of High Strength, High Toughness, and Corrosion Resistant Plate by Scott Buchwald	Presentation	S. Buchwald, Constellium, will give this presentation during the MTG on two new tempers of 7160 aluminum alloy.
		4	Introduction to Elektron 21 (EV31A) Billet and Slab for Machine from Solid Applications	Presentation	D. Cleveland, Luxfer, will give this presentation during the MTG.
F	FTG	9	Fastener Installation Parameters for Joint Tension Allowables	Status	C. Shannon will present the status of this item if we have received Boeing's example problems.
F	FTG	9	Evaluation of new Regression and Confidence Models for Lap Joint Tests	Status	C. Shannon will present the status of this item.
F	FTG	9	Fastener Minimum t/D Requirements	Status	C. Shannon will present the status of this item.
F	FTG	9	Modification to the Sunset Criteria Procedures	Status	C. Shannon will present status on this item at the meeting.
F	FTG	9	Verification of Secondary Modulus Methods for Fasteners	Status	C. Shannon will present the status of this item.
F	FTG	9	Use of T99 as A-Basis When Higher than Specification for Fastener Shear and Tension	Handout	C. Shannon will present this agenda item.
F	FTG	1	Chapter 1 Guidelines on Fastener Design Allowable Usage	Handout	C. Shannon will present this agenda item at the GTG meeting.
F	FTG	9	Consideration of Origin in Multiple Regression Analysis for Joint Allowables	Presentation	Jay Goodman will provide a presentation to the meeting on alternate models that can be used to include the origin of the data.
F	FTG	9	Replacement of T90 Yield Curve with a Multiple-Regression Typical Yield Curve for Joint Allowables	On Hold	No effort is expected to be spent on this item at the meeting.
F	FTG	9	Revision of Table Format for Joint Allowables	On Hold	No effort is expected to be spent on this item at the meeting.
F	FTG	8	Edit Table 8.1.5.1	Agenda	C. Shannon will present this agenda item at the GTG meeting.

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AGENDA ITEM SUMMARY

Sorted By Task Group

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
FTG - FASTENER TASK GROUP					
		8	Fastener Tables of Sunset Review Interest	On Hold	No effort expected at this time
		8	Sunset Review of Table 8.1.3.2.2(c), NAS1921C	On Hold	No effort expected at this time
		8	Sunset Review of Table 8.1.3.2.3(a), MS21140	Status	C. Shannon will present status of this item More shear data are requested.
		8	Sunset Review of Flush Head, Mechanical Lock Spindle Blind Rivet Table 8.1.3.2.2(e) NAS 1921 M	On Hold	No effort expected at this time
		8	Supporting Data and Basis Identification for Table 8.1.2(b)	Status	C. Shannon will present the status of this item More data are requested
		8	Sunset Review of Table 8.1.4.2(i), LGPL2SC-V Pin, 3SLC-C Collar in Clad 7075-T6	Status	No effort expected at this time
			Identifying Basis of Fastener Shear Strength on Remaining Tables	Status	The identified tables of interest are having their shear reviewed by the table owner. New data, where applicable, being requested.
		8	Corrections to Table 8.1.3.2.2(c) NAS 1921C	Status	C. Shannon will present the status of this item
		9	Sunset Shear Strength Rule Criteria Addition	Handout	C. Shannon will present this agenda item at the GTG
WWG		8	Review of Inconsistencies in Table 8.2.2.1.2(d) for Spot-Weld Joints	Agenda	C. Shannon will present this item. This was Table 8.2.2.1.2(d) prior to MMPDS-13.
		8	Update AMS-QQ-A-250/4 in Table 8.2.2.1.2(a) (MMPDS-13)	Agenda	C. Shannon will present this agenda item in the F
GTG - GUIDELINES TASK GROUP					
	PSG		Target Materials for Propulsion Applications	Status	D. Hall will present status of this item.
					D. Hall will present status of this item.

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AGENDA ITEM SUMMARY

Sorted By Task Group

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
		9	Modification of Indirect Analysis Equation	Agenda	B. Krile will present this item to review the results of a of several recent datasets, including several that co sufficient derived properties to do the analysis direct indirectly.
		9	Guidelines for Strain-Rate Sensitive Materials	Status	D. Hall will lead discussion on this item. The primary this meeting will be on 1) clarification of the specificg this item and 2) availability of desired information req testing strain rates Propose close with "Close with No Action"?
		9	Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature	Status	D. Hall will present this item, which will include ex problems involving the current and proposed new me with several different sample sizes
ASG/ MATSSG		9	Guidelines for When Specimens Are Not From Full Thickness	Status	This item is related to Item 12-16 and will be discusse new steel working group listed with that item.
MATSSG		9	Cross-Sectional Information Requirement for Extrusions	Agenda	J. Rubadue will prepare an agenda item
ASG/ MATSSG / GSG		9	Periodic Testing of Materials for Derived Properties	Handout	D. Hall will present this item. Propose to Close with No Action
		9	Updates to Strain Departure Methods for Stress-Strain Curve Analyses	Status	C. Shannon will provide a brief update on why this ite first proposed. Since it is a low priority no action has taken to date.
ETWG		9	Emerging Technology Working Group	Agenda	D. Hall will present this agenda item. See the Agenda for the ETWG meeting. Review progress by the Volume II Working Group Discussion of Equivalency Testing (Item 16-20) Test Matrix "Table 9.2.4"
					B. Krile will present this item, which will include the re

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AGENDA ITEM SUMMARY

Sorted By Task Group

Responsible Group	Chpt	Title	Type	32nd Meeting Description
	9	Update Static Property Examples in Section 9.8.1	Agenda	J. Rubadue will present an agenda item with an initial showing results to date.
	9	Legacy Alloy Review Strategy – Near Term	Status	D. Hall will review status of this item
	9	Re-evaluation of Reduced Ratio Sample Size Determination	Agenda	D. Hall will review this brief item that will clarify the issues that led to establishment of this item, and he will provide clarification on the most important next steps, should they be sufficient to pursue this item in more detail.
/MATSSG	9	Guidelines for Generation and Use of A/B Allowables for Castings	Handout	D. Hall will review this handout item.
PSG	9	Alternative Fitting Function for Effect of Temperature Data	Status	D. Hall will review this item.
SSWG	9	Guidelines for Rejection of Stress-Strain Curves from Parametric Analysis	Status	C. Shannon will provide a status report on this low probability item.
		Stress-Strain Curve Working Group	Status	E. Hernandez will present status of this working group
	9	Clarification of Ten-Lot Minimum Requirement for Derived Properties	Status	J. Rubadue to present status.. Revision of Footnote (c) Table 9.2.4.1 will be discussed at the meeting.
FatWG		Review Section 9.6.1 - Load and Strain Control Fatigue	Status	D. Hall will lead discussion on this item.
	9	Revising R-curve Requirement in Table 9.2.4	Status	D. Hall will present this item to modify the requirements in Table 9.2.4. Currently, R-curve is required when included in the specification.
FatWG	9	Revising Fatigue Requirement in Table 9.2.4	Status	D. Hall will present this item to modify the requirements in Table 9.2.4.
FatWG	9	Use of Box-Cox Transformation in the Fitting of Fatigue Data	Status	D. Hall will present status of this item.
ETWG		Northrop Grumman Design Allowables for Additive Ti 6-4	Presentation	If available, a presentation will be made

32nd MMPDS Coordination Meeting

AGENDA ITEM SUMMARY

Sorted By Task Group

Responsible Group		Chpt	Title	Type	32nd Meeting Description
Full	Initial				
		9	Guidelines for Exclusion of Low Secondary Property Test Values	Status	J. Rubadue will present status on this item
		9	Guidelines for Non-Monotonic Stress-Strain Response	Status	C. Shannon will present status on this item
		9	Using the Logarithm Transformation with MIDAS Analysis of Minimum Properties	Presentation	J. Goodman, Arconic, will give this presentation during GTG.
GTG-F - GUIDELINES TASK GROUP - FASTENER					
F	FTG	9	Fastener Installation Parameters for Joint Tension Allowables	Status	C. Shannon will present the status of this item if we have received Boeing's example problems.
F	FTG	9	Evaluation of new Regression and Confidence Models for Lap Joint Tests	Status	C. Shannon will present the status of this item
F	FTG	9	Fastener Minimum t/D Requirements	Status	C. Shannon will present the status of this item
F	FTG	9	Modification to the Sunset Criteria Procedures	Status	C. Shannon will present status on this item at the
F	FTG	9	Verification of Secondary Modulus Methods for Fasteners	Status	C. Shannon will present the status of this item
F	FTG	9	Use of T99 as A-Basis When Higher than Specification for Fastener Shear and Tension	Handout	C. Shannon will present this agenda item.
F	FTG	1	Chapter 1 Guidelines on Fastener Design Allowable Usage	Handout	C. Shannon will present this agenda item at the GTG
F	FTG	9	Consideration of Origin in Multiple Regression Analysis for Joint Allowables	Presentation	Jay Goodman will provide a presentation to the FTG on alternate models that can be used to include the origin
F	FTG	9	Replacement of T90 Yield Curve with a Multiple-Regression Typical Yield Curve for Joint Allowables	On Hold	No effort is expected to be spent on this item at t
F	FTG	9	Revision of Table Format for Joint Allowables	On Hold	No effort is expected to be spent on this item at t
F	FTG	8	Edit Table 8.1.5.1	Agenda	C. Shannon will present this agenda item at the GTG

32nd MMPDS Coordination Meeting

AGENDA ITEM SUMMARY

Sorted By Task Group

Responsible Group	Chpt	Title	Type	32nd Meeting Description
ASG	3	Wrought Aluminum Alloys with S-Basis Minimums	Agenda	J. Rubadue will prepare an agenda item
ASG	3	Mechanical Properties for Aluminum Alloy Forgings	Status	2219-T852 Hand Forgings has been assigned Item 18 for analysis with data from 2 suppliers. Data for 6061-T6 Forging per AMS4248 is requested. This is currently on hold in MMPDS.
ASG	3	Re-evaluate Legacy Alloy Stress-Strain Curves in Chapter 3	On Hold	No effort expected at this time
ASG	1	AMS Coordination	Status	The next AMS Metals Committee Meeting will be held the week following the MMPDS Meeting, September 17-20, 2018 in Minneapolis, MN.
ASG	2	Division of Low Alloy Steel Table 2.3.1.0(g2)	Status	No effort is expected to be made on this item.
ASG/ MATSSG	2	Footnote for Steel When Test Specimen is Not From Full Thickness	Status	D. Hall will present status of this item.
ASG/ MATSSG	6	Footnote for Non-Ferrous Alloys Test Specimen When Not From Full Thickness	Status	This item is on hold until Item 12-16 is done.
ASG	5	Design Allowable Properties for Ti-3Al-2.5V Tubing	Status	Progress on this item will begin as soon as requested data has been obtained from Sandvik and Haynes. Both companies have indicated willingness to submit data, but have not yet done so.
ASG	2	21-6-9 (Nitronic 40) Tubing	Status	Data are requested for AMS5561 tubing. If data are received in time, an agenda item will be prepared.
ASG	3	Bearing Strength Reduction for Edgewise Orientation from Extruded Bar	Status	This item is on hold until data from additional alloys are received.
ASG	5	Addition of AMS 4919 Ti-6-2-4-2 Plate Properties	Status	Data are expected from ATI, Arconic, and AFRL. If data are received in time, an agenda will be prepared.
ASG/ MATSSG	6	Upgrade S-Basis to A- and B-Basis for 718 Bar Nickel-Base Alloys per AMS 5962	Agenda	J. Rubadue will prepare an agenda item
ASG	3	Addition of ST Bearing Properties for 7085-77454 Plate	Status	If data are received in time, an agenda item will be prepared.

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AGENDA ITEM SUMMARY

Sorted By Task Group

Responsible Group	Initial	Chpt	Title	Type	32nd Meeting Description
ASG	ASG	3	Legacy Alloy 7075-T6 Indirect Properties Update	Agenda	J. Rubadue will prepare an agenda item for both bare and clad sheet.
ASG	ASG	multi	Identification of Forging Types for Tables with A- and B-basis	Agenda	J. Rubadue will prepare an agenda item. The ASG will be asked to discuss rewording of footnotes when material is from a forged billet.
		2	AM-355 Stainless Steel in SCT850 Condition	Status	No effort is expected to be expended on this item. Not using this condition right now.
MATSSG	MATSSG	3	Mechanical Properties for 7097-T7651 Aluminum Alloy Plate	Agenda	C. Shannon will present this agenda item. The data for mechanical properties were previously approved and included in the meeting minutes. This item adds the remainder of the data for this section and stress-strain curves.
		7	Estimated Values in Table 7.3.2.0(c) Copper Beryllium Strip	Status	No effort is expected to be expended on this item.
		3	Fatigue Curves for 2099-T83 Extrusion	Status	D. Hall will provide a status report. No action due to low priority.
		4	Fatigue Curve for 2099-T81 Extrusion	Status	D. Hall will provide a status report. No action due to low priority.
		2	Addition of Transverse Bearing Strength Properties for Custom 465 Bar	Status	If data are received in time, an agenda item will be prepared.
		3	R-Curve for Alclad 2029-T8 Aluminum Alloy Sheet	Handout	D. Hall will review this item.
		3	R-Curves for 2624-T39 and T351 Aluminum Alloy Plate	Agenda	D. Hall will review this item.
		3	Effect of Temperature Curves for 2395-T84 Extrusion	Status	D. Hall will review this item.
		3	Inclusion of Properties for AMS4221, 2124-T8151 Plate	Status	Data are requested.
PSG	PSG		Supplemental Data for Ti-6-2-4-2 Forging	Status	D. Hall will review the amount of fatigue, creep and growth data that is available. Depending on the results of the 2018 ballot there may be some progress to report on.
			FCC Analysis for 2207-T87 Plate	Status	D. Hall will review the amount of crack growth data that is available. Depending on the results of the 2018 ballot there may be some progress to report on.

32nd MMPDS Coordination Meeting

AGENDA ITEM SUMMARY

Sorted By Task Group

Task Group	Possible Group	Initial	Chpt	Title	Type	32nd Meeting Description
G			3	Full-Range Stress-Strain Curves for 2050-T852 Aluminum Alloy Die Forging	Agenda	C. Shannon will present this agenda item
G			3	Design Allowable Properties for 7160-T7651 Aluminum Alloy Plate	Agenda	J. Rubadue will present this agenda item.
G			5	Legacy Confirmation for Ti-6-4 Investment Castings per AMS4992	Status	This item is a spin-off from Item 03-14. Data are available from Howmet and PCC. If there is sufficient time for analysis, an agenda item will be prepared.
G			3	Upgrade S-Basis to A- and B-Basis 7075-T76, T7651 Bare and Clad Sheet and Plate	Status	This item is a spin-off from Item 10-14. Data are available from Aleris, Alcoa, AMAG, and Kaiser. If there is sufficient time for an analysis, an agenda item will be prepared.
G			3	Upgrade S-basis to A/B-basis for 2219-T852 Aluminum Alloy Hand Forgings	Status	This item is a spin-off from Item 10-15. Data are available from Weber and Alcoa. If there is sufficient time for an analysis, an agenda item will be prepared.
G			3	Legacy Confirmation and Upgrade to A- and B-basis for 7075-T7651 Extrusion	Status	This item is a spin-off from Items 03-14 and 10-15. Data are available from Alcan, Kaiser, and Universal Alloy. If there is sufficient time for analysis, an agenda item will be prepared.
G			3	Upgrade of 7XXX Series Fatigue Curves	Agenda	D. Hall will present this agenda item.
G			5	Contemporary Tension and Compression Modulus Data for Ti-6Al-4V Annealed Sheet	Agenda	Boeing submitted this agenda item to add modulus vs. temperature sheet properties.
G			3	Proposal for AA/ANSI Alloy Designation System for Aluminum Alloy Powder and Parts	Presentation	G. Bray, Arconic will give this presentation during the meeting. Feedback is requested on the proposed designation system for aluminum powders.
G			6	Secondary Properties for 718 Bar per AMS 5662 and AMS 5663	Status	Compression, shear, and bearing data are requested.
G			3	Introduction to AA7160: A New Family of High Strength, High Toughness, and Corrosion Resistant Plate by Scott Buchwald	Presentation	S. Buchwald, Constellium, will give this presentation during the MTG on two new tempers of 7160 aluminum alloy.