



## Announcing the 30th MMPDS Coordination Meeting

March 28-31, 2017 Drury Inn & Suites-Riverwalk, San Antonio, TX

### Meeting Schedule

A detailed meeting schedule is attached and can also be found on the MMPDS website at [www.mmpds.org](http://www.mmpds.org).

### **Noteworthy:**

- The Industrial Steering Group (ISG – members and invited guests only) and Government Steering Group (GSG- members and invited guests only) will meet separately beginning at 8:00 am on Tuesday, March 28th. At 2:45 pm, the ASG and MATSSG group meetings will begin, concurrently. All meeting attendees are invited to attend ASG or MATSSG, as appropriate for your organization.
- Wednesday, March 29th, will begin with the Guidelines Task Group (GTG) meeting from 8:00 am to 3:00 pm. The ETWG meeting will take place at 3:15 finishing out the day. See the attached ETWG Agenda.
- Thursday, March 30th, multiple Task Group meetings will occur throughout the day.
- A lunch buffet is included with meeting fees on Tuesday, Wednesday, and Thursday.
- Friday, at 8:00 am, the General Coordination Committee (GCC) will take place. At 10:15 am, depending on need, the meeting will continue, OR, there will be a demo of the newest version of MIDAS. Meetings will conclude by noon.
- 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](http://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 March 3, 2017. Registration rates can be found on the attached Meeting Registration Form. Credit Cards will not be charged until after the meeting has ended.

### Hotel Accommodations

#### **The Drury Inn & Suites-Riverwalk**

201 N. St. Mary's Street  
San Antonio, TX 78205  
Telephone: 210-212-5200  
[www.druryhotels.com](http://www.druryhotels.com)

**The MMPDS Meeting Hotel Room Group Rate is \$121.00 USD.** Cut-off date for reserving rooms is March 3, 2017 at 5 pm EST, 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.

To make your hotel reservation, follow this link:

<https://www.druryhotels.com/Reservations.aspx?groupno=2284372>

You can also call in your reservation at **1-800-325-0720**, reservation code 2284372 to get the \$ 121.00 USD rate.



The Group room rate includes the following:

**FREE:**

- HOT QUIKSTART<sup>®</sup> Breakfast – Belgian waffles, scrambled eggs, biscuits & gravy, sausage and more. (Note there will still be a continental breakfast at the meeting.)
- 5:30 Kickback<sup>®</sup> - Enjoy a variety of free snacks — like salads, soups and more — and cold beverages from 5:30 to 7 p.m.
- Free Long Distance - One hour every room every night.
- Wireless Internet Access – High speed Internet in all rooms and the lobby.
- Soda and Popcorn – From 3:00 pm to 10:00 pm every night in the lobby

Covered Parking is \$16.00 per day, plus tax, and has a height limit of 6'6".

Individual reservations must be cancelled prior to 12:00pm on the confirmed date of arrival in order to avoid a fee equal to one night's room rate plus tax.

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.

NOTE: Right next door to the Drury Inn and Suites is the Drury Plaza Hotel. Please make note that the meeting location is the Inn & Suites

**Questions?** Please email [mundya@battelle.org](mailto:mundya@battelle.org). We look forward to seeing you in San Antonio.

## 30th MMPDS Coordination Meeting



# Preliminary Schedule

March 28-31, 2017, San Antonio, TX

| Time        | Tuesday                           |                       | Wednesday                         | Thursday                          |     | Friday                                                                          |       |  |
|-------------|-----------------------------------|-----------------------|-----------------------------------|-----------------------------------|-----|---------------------------------------------------------------------------------|-------|--|
| 7:30-8:00   | Continental Breakfast             |                       | Continental Breakfast             | Continental Breakfast             |     | Continental Breakfast                                                           |       |  |
| 8:00-10:00  | ISG<br>(members only)             | GSG<br>(members only) | GTG                               | MTG                               | FTG | GCC (Include Report from Executive Board, Steering Groups, and Review of Items) |       |  |
| 10:00-10:15 | Break                             |                       | Break                             | Break                             |     | Break                                                                           |       |  |
| 10:15-11:00 | ISG<br>(members only)             | GSG<br>(members only) | GTG                               | MTG                               | FTG | GCC continued or MIDAS demonstration as needed                                  |       |  |
| 11:00-12:00 |                                   |                       |                                   |                                   |     |                                                                                 |       |  |
| 12:00-1:00  | Lunch<br>(buffet included in fee) |                       | Lunch<br>(buffet included in fee) | Lunch<br>(buffet included in fee) |     |                                                                                 |       |  |
| 1:00-2:30   | Joint ISG/GSG<br>(members only)   |                       | GTG                               | MTG                               | FTG |                                                                                 |       |  |
| 2:30-2:45   | Break                             |                       |                                   |                                   |     |                                                                                 |       |  |
| 2:45-3:00   | ASG                               | MATSSG                | ETWG                              | PSG                               | WWG |                                                                                 |       |  |
| 3:00-3:15   |                                   |                       |                                   |                                   |     |                                                                                 | Break |  |
| 3:15-4:00   |                                   |                       |                                   |                                   |     |                                                                                 |       |  |
| 4:00-5:00   |                                   |                       |                                   |                                   |     |                                                                                 |       |  |
| 5:00-6:00   | (ASG if needed)                   | Executive Board       |                                   | FatWG                             |     |                                                                                 |       |  |

**Key:**

- |                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ASG - Airframer Steering Group<br>ETWG - Emerging Technology Working Group<br>FatWG - Fatigue Working Group<br>FTG - Fastener Task Group<br>GCC - General Coordination Committee<br>GSG - Government Steering Group (members only) | GTG - Guidelines Task Group<br>ISG - Industry Steering Group (members only)<br>MATSSG- Materials and Test Services Steering Group<br>MTG - Material Task Group<br>PSG - Propulsion Steering Group<br>WWG - Welding Working Group |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## 30<sup>th</sup> MMPDS Coordination Meeting

# ETWG AGENDA – Preliminary

March 29, 2017, 3:15 – 5:15 PM

3:15 PM

- **Introductions and Opening Statement**
- **Scope of ETWG**
  - Forum for material characterization and properties generation activities for emerging materials (PIM/AM)
- **Review of FAA AMNT activities:**
  - AM Roadmap
  - Policy and Guidance (ACO and MIDO Checklist)
  - R&D Efforts

3:30 PM

- **Review of SAE AM standards activities**
  - Discussion of SAE specification format
- **Discussion on Use of Equivalency Methods with PIM and AM:**
  - Propose limiting to T90 initially
  - A simplified version of equivalency procedures developed under Item 16-20 and 11-40 could be used with PIM and AM
    - Examples using currently available LAM and FSW data will be shown

4:00 PM

- **Presentation: Norsk Titanium RPD™ Ti-6Al-4V Material**  
by Pedrum Sodouri, NORSK Titanium

4:30 PM

- **Agenda 07-17 - Development of Design Properties for Friction Stir Welds**

4:45 PM

- **Suggested Data Requirements for Potential Design Value Development**

5:00 PM

- **General discussion on path forward**



## 30th MMPDS Coordination Meeting

# AGENDA ITEM SUMMARY - Preliminary

(Sorted by Item Number)

Issued: 1/24/17

| Item No | Responsible Group |                | Chpt | Title                                                                                          | Type    | 30th Meeting Description                                                                                                                                                                          |
|---------|-------------------|----------------|------|------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Final             | Initial        |      |                                                                                                |         |                                                                                                                                                                                                   |
| 03-14   | MTG               |                | 1    | Review of Currency of Existing Database on Legacy Alloys                                       | Agenda  | J. Rubadue will present this agenda showing a status of top alloys.                                                                                                                               |
| 04-21   | FTG               |                | 8    | Fastener Tables of Sunset Review Interest                                                      | On Hold | This item is on hold until current Sunset tables are reviewed.                                                                                                                                    |
| 07-17   | GTG               | ETWG           | 9    | Development of Design Properties for Friction Stir Welds                                       | Agenda  | R. Rice will present this item summarizing previous FSW effort                                                                                                                                    |
| 08-23   | FTG               |                | 8    | Sunset Review of Table 8.1.3.2.2(c), NAS1921C                                                  | Agenda  | M. Tefend will present this item pending k factor corrections in Item 15-17                                                                                                                       |
| 09-13   | FTG               |                | 8    | Sunset Review of Table 8.1.3.2.3(a), MS21140                                                   | Agenda  | M. Tefend will present this item pending k factor corrections in Item 15-17                                                                                                                       |
| 09-16   | GTG               | WWG            | 8    | Review of Section 8.2 Metallurgical Joints                                                     | Agenda  | M. Tefend will present this item including R. Reinmuller's edits and corrections to tables.                                                                                                       |
| 10-13   | MTG               | ASG            | 2    | Wrought Steels S-Basis Summary                                                                 | Status  | ASG Members may pool some of their data. This item is a placeholder for request for data.                                                                                                         |
| 10-14   | MTG               |                | 3    | Wrought Aluminum Alloys with S-Basis Minimums                                                  | Status  | A summary of the needed data will be shown.                                                                                                                                                       |
| 10-15   | MTG               |                | 3    | Mechanical Properties for Aluminum Alloy Forgings                                              | Status  | Waiting for a complete data set from all companies.                                                                                                                                               |
| 10-17   | MTG               |                | 3    | Re-evaluate Legacy Alloy Stress-Strain Curves in Chapter 3                                     | Status  | Low Ranking. No effort on this item.                                                                                                                                                              |
| 10-25   | GTG-F             | FTG            | 9    | Fastener Installation Parameters for Joint Tension Allowables                                  | Status  | Waiting on data from Boeing.                                                                                                                                                                      |
| 11-05   | MTG               |                | 1    | AMS Coordination                                                                               | Status  | J. Rubadue will give a status report. The spring AMS meeting follows the MMPDS meeting.                                                                                                           |
| 11-15   | MTG               |                | 2    | Division of Low Alloy Steel Table 2.3.1.0(g2)                                                  | Agenda  | J. Rubadue will present this 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 | Agenda  | M. Tefend will present this item pending k factor corrections in Item 15-17                                                                                                                       |
| 11-43   | FTG               |                | 8    | Supporting Data and Basis Identification for Table 8.1.2(b)                                    | Status  | Testing is needed to support table. ISG is discussing how to fund testing.                                                                                                                        |
| 12-16   | MTG               | ASG/<br>MATSSG | 2    | Footnote for Steel When Test Specimen is Not From Full Thickness                               | Status  | Related to GTG Item 15-40. Requested that material suppliers need to show testing used to indicate effect of size on properties. Additional data needed for incorporation of footnotes on tables. |
| 12-17   | MTG               | MATSSG         | 6    | Footnote for Non-Ferrous Alloys Test Specimen When Not From Full Thickness                     | On Hold | On hold until resolution of Item 12-16.                                                                                                                                                           |
| 12-44   | MTG               |                | 5    | Design Allowable Properties for Ti-3Al-2.5V Tubing                                             | Status  | Waiting on baseline data.                                                                                                                                                                         |
| 12-45   | MTG               |                | 2    | 21-6-9 Tubing                                                                                  | Status  | Data are needed. Consider closing.                                                                                                                                                                |



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|---------|-------------------|----------------|----------|------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------|
|         | Final             | Initial        |          |                                                                                                      |         |                                                                                                                       |
| 12-50   | GTG-F             | FTG            | 9        | Evaluation of new Regression and Confidence Models for Lap Joint Tests                               | Agenda  | M. Tefend will present this item.                                                                                     |
| 12-52   | GTG-F             | FTG            | 9        | Fastener Minimum t/D Requirements                                                                    | Agenda  | M. Tefend will present this item.                                                                                     |
| 12-89   | GTG               | PSG            | 9        | Target Materials for Propulsion Applications                                                         | Status  | This item will be discussed in PSG.                                                                                   |
| 12-105  | GTG-F             | FTG            | 9        | Modification to the Sunset Criteria Procedures                                                       | On Hold | This item is on hold pending sunset review.                                                                           |
| 13-32   | MTG               | ASG/<br>MATSSG | 3        | Bearing Strength Reduction for Edgewise Orientation from Extruded Bar                                | Status  | No action on this item. Continuing to accumulate data.                                                                |
| 13-34   | MTG               |                | 5        | Addition of AMS 4919 Ti-6-2-4-2 Plate Properties                                                     | Status  | Waiting on data.                                                                                                      |
| 13-35   | MTG               |                | 6        | Upgrade S-Basis to A- and B-Basis for 718 Bar Nickel-Base Alloys per AMS 5962                        | Agenda  | J. Rubadue to present this item.                                                                                      |
| 13-43   | MTG               |                | 3        | Addition of ST Bearing Properties for 7085-T7451 Plate                                               | Status  | Waiting on data.                                                                                                      |
| 13-48   | MTG               |                |          | Add Cross-Sectional Area or Circle Size Information to Extruded Alloy Tables                         | Agenda  | J. Rubadue will present this item.                                                                                    |
| 13-50   | GTG               |                | 9        | ASTM Coordination                                                                                    | Status  | R. Rice will give a status report                                                                                     |
| 14-13   | GTG               | MATSSG         | 9        | Recommended Test Orientations and Test Plane for Round Product                                       | Agenda  | ASTM approved addition of orientations for round product. G. Bray, Arconic, will present this item.                   |
| 14-19   | GTG               |                | 9        | Inclusion of Kisi Fracture Toughness Data                                                            | On Hold | R. Rice will give a status report                                                                                     |
| 14-21   | GTG               | WWG            | 9        | Update of Section 9.2.4.8 Fusion Welded Joints to Clarify Method and Basis                           | Status  | M. Tefend will give a status report on this item.                                                                     |
| 14-24   | MTG               |                | 4 thru 7 | Identification of Stress-Strain Curves Which Have Been Evaluated for 2-Shape Factor for Chapters 4-7 | Status  | Low Ranking. No effort on this item.                                                                                  |
| 14-28   | FTG               |                | 8        | Sunset Review of Table 8.1.4.2(i), LGPL2SC-V Pin, 3SLC-C Collar in Clad 7075-T6                      | Status  | M. Tefend will give a status report on this item.                                                                     |
| 14-29   | FTG               |                | 8        | Sunset Review of Table 8.1.4.2(i), LGPL2SC-V Pin, 3SLC-C Collar in Clad 2024-T3                      | Status  | M. Tefend will give a status report on this item. This item may be dropped pending Lockheed's usage of this fastener. |
| 14-55   | GTG               |                | 9        | Investigation of Fitting Functions for Design Applications                                           | On Hold | No effort on this item due to low ranking from ballot. Consider closing with no action.                               |
| 14-61   | GTG               | PSG            | 9        | Update Creep Guidelines                                                                              | Status  | R. Rice will lead discussion on this item.                                                                            |
| 14-62   | GTG               |                | 9        | Evaluate Inclusion of other Fracture Toughness Data (JIC, KJIC)                                      | Agenda  | R. Rice will present this item.                                                                                       |



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|         | Final             | Initial          |      |                                                                                                 |         |                                                                                                                                                                                                                                                              |
| 14-66   | MTG               |                  | 2    | Addition of 15-5PH Sheet S-Basis per AMS 5862 for H1025 Condition                               | Status  | Waiting on data.                                                                                                                                                                                                                                             |
| 14-67   | MTG               |                  | 3    | Addition of 3-6 Inch Range for 7075-T73X Bar and Rod per AMS 4124                               | Status  | Waiting on data.                                                                                                                                                                                                                                             |
| 15-12   | GTG               | MATSSG           | 9    | Bearing Failure Modes                                                                           | Agenda  | H. Jesequel, UAC, will present this item based on ASTM E28.04 sub-committee ballot for addition of failure modes in ASTM E238.                                                                                                                               |
| 15-13   | MTG               | MATSSG           | 9    | Clarification of Shear Orientation for Legacy Alloys                                            | Handout | J. Rubadue will present this item.                                                                                                                                                                                                                           |
| 15-17   | GTG               | FTG              | 9    | Revision of Acceptance Test for 50% Censored Normal Method                                      | Agenda  | R. Rice & M. Tefend will present this item to include k99 and k90 knock-down factors. This affects Chapter 8 calculations (Joint allowables) and Chapters 2 through 7 (static properties) for sample sizes less than 100 which are not normally distributed. |
| 15-19   | GTG-F             | FTG              | 9    | Verification of Secondary Modulus Methods for Fasteners                                         | Status  | M. Tefend will give a status on this time.                                                                                                                                                                                                                   |
| 15-30   | MTG               |                  | 3    | Precision Modulus as Function of Test Location on Heavy Gauge Plate                             | Agenda  | J. Rubadue will present this item.                                                                                                                                                                                                                           |
| 15-33   | GTG               | ASG/ GSG         | 8    | Update Design Reference for Section 8.3 Bearings                                                | Agenda  | J. Rubadue will present this item.                                                                                                                                                                                                                           |
| 15-34   | GTG               |                  | 9    | Stress-Strain Curve Extension                                                                   | Agenda  | R. Rice will present this item based on F. Bron's presentation at the 29th meeting.                                                                                                                                                                          |
| 15-36   | GTG               |                  | 9    | Modification of Indirect Analysis Equation                                                      | Status  | A status report will be given.                                                                                                                                                                                                                               |
| 15-37   | GTG               |                  | 9    | Guidelines for Strain-Rate Sensitive Materials                                                  | Agenda  | R. Rice will present this item.                                                                                                                                                                                                                              |
| 15-38   | GTG               |                  | 9    | Reevaluation of Degrees of Freedom Calculation for Regression with Effect of Temperature        | Agenda  | R. Rice will present this agenda item.                                                                                                                                                                                                                       |
| 15-39   | GTG               | PSG              | 9    | Austenitic Stainless Steel Fatigue Data                                                         | Status  | Unable to determine pedigree of data. This item will be closed with no action. If data with a known pedigree becomes available, a new item will be opened.                                                                                                   |
| 15-40   | GTG               | ASG/ MATSSG      | 9    | Guidelines for When Specimens Are Not From Full Thickness                                       | Agenda  | J. Rubadue will present this item to add guidance to show if a material is sensitive to size and the size limitations.                                                                                                                                       |
| 15-42   | MTG               |                  | 3    | Casting Allowables for 15-5PH and 17-4PH steel                                                  | Status  | Waiting on data.                                                                                                                                                                                                                                             |
| 15-45   | GTG               | MATSSG           | 9    | Requirement of Additional Information on Specimen Shapes for Forgings, Extrusions, and Castings | Status  | The Extruder Working Group is continuing to evaluate possible primary variables.                                                                                                                                                                             |
| 15-46   | GTG               | MATSSG           | 9    | Cross-Sectional Information Requirement for Extrusions                                          | Status  | An Extruder Working Group led by V. Dangerfield will work to determine how to better define needed information for discussion at this meeting.                                                                                                               |
| 15-49   | GTG               |                  | 9    | Revision of B-basis Based on Reduction of A-basis                                               | Agenda  | R. Rice will present this item to include the recommended method from the 29th meeting agenda in Chapter 1 where it may be used if desired. See 29th minutes regarding decision to not revise B-basis values.                                                |
| 15-51   | GTG               | ASG/ MATSSG/ GSG | 9    | Periodic Testing of Materials for Derived Properties                                            | Agenda  | R. Goode will summarize ASG discussions and expectations. These will be passed along to the AMS working group.                                                                                                                                               |



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|---------|-------------------|---------|-------|----------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Final             | Initial |       |                                                                                  |            |                                                                                                                                                                                                                                                                                                                                                                                                 |
| 15-53a  | MTG               |         | 3     | Mechanical Properties for 7099-T7451 Aluminum Alloy Plate                        | Agenda     | J. Rubadue will present this item.                                                                                                                                                                                                                                                                                                                                                              |
| 15-53b  | MTG               |         | 3     | Mechanical Properties for 7099-T7651 Aluminum Alloy Plate                        | Agenda     | J. Rubadue will present this item.                                                                                                                                                                                                                                                                                                                                                              |
| 16-02   | GTG               |         | 9     | Updates to Strain Departure Methods for Stress-Strain Curve Analyses             | Status     | R. Rice will lead discussion on this item.                                                                                                                                                                                                                                                                                                                                                      |
| 16-03   | MTG               |         | 3     | Modulus and Stress-Strain Curves for 2050-T852 Aluminum Alloy Die Forging        | Agenda     | J. Rubadue will present this item.                                                                                                                                                                                                                                                                                                                                                              |
| 16-10   | MTG               | ASG     | 3     | Legacy Alloy 7075-T6 Indirect Properties Update                                  | Status     | This will be discussed in ISG and ASG.                                                                                                                                                                                                                                                                                                                                                          |
| 16-12   | FTG               |         |       | Identifying Basis of Fastener Shear Strength on Remaining Tables                 | Agenda     | M. Tenfend will present this item pending k factor corrections in Item 15-17.                                                                                                                                                                                                                                                                                                                   |
| 16-13   | FTG               |         | 8     | Corrections to Table 8.1.3.2.2(c) NAS 1921C                                      | Status     | Pending sunset review                                                                                                                                                                                                                                                                                                                                                                           |
| 16-14   | GTG               | ASG     | 9     | Shear and Bearing Test Orientations in Mechanical Property Tables                | Agenda     | S. Fantle, Boeing, will present this item to add a "de-coder" in Chapter 1 for use by stress analysts.                                                                                                                                                                                                                                                                                          |
| 16-15   | GTG               | ETWG    | 9     | Emerging Materials                                                               | Status     | ETWG will include updates on FAA and AMS activities. A presentation will be given on additive manufacturing activities at NORSK titanium. Friction stir welding will also be discussed.                                                                                                                                                                                                         |
| 16-16   | GTG               | FATWG   | 9     | Fatigue in MMPDS                                                                 | Agenda     | R. Rice will present this item.                                                                                                                                                                                                                                                                                                                                                                 |
| 16-20   | GTG               |         | 9     | Equivalency Testing Assuming Change in Process (From Item 11-40)                 | Agenda     | R. Rice will present this item.                                                                                                                                                                                                                                                                                                                                                                 |
| 16-22   | MTG               |         | multi | Identification of Forging Types for Tables with A- and B-basis                   | Status     | J. Rubadue will give a status report.                                                                                                                                                                                                                                                                                                                                                           |
| 16-23   | MTG               | PSG     | 6     | Re-evaluate Item 10-08 for Effect of Temperature Curve vs Specification Minimums | Agenda     | This item is for effect of temperature curves for 718 alloy. Based on preliminary analysis in 29th meeting handout, it was considered urgent to re-label Figures 6.3.5.1.1(a) and (b) as for wrought product only. This was done in a new item assigned Item 16-35. R. Rice will present this item on further evaluation of the 718 curves. Additional time and temperature data are requested. |
| 16-24   | GTG               |         | 9     | Guidelines for Modulus When Average Value is Insufficient                        | Discussion | This item will be discussed. Consider how this affects the stress-strain curves and tangent modulus curves. Consider using COV as a trigger to determine when a range should be included in the property table.                                                                                                                                                                                 |
| 16-25   | MTG               |         | 6     | Extension of 718 Bar Gage Range for AMS 5662 and AMS 5663                        | Status     | Agenda presented in 29th Meeting. Resolve questions on size/response to heat treat and note if lot release data was from excised samples.                                                                                                                                                                                                                                                       |
| 16-27   | MTG               |         | 3     | Expansion of 2195-T8 Design Allowable Properties                                 | Agenda     | J. Rubadue will present this item.                                                                                                                                                                                                                                                                                                                                                              |
| 16-29   | GTG               | ASG     | 1     | Review of Section 1.4.7 Bearing Properties                                       | Discussion | A response to comments on Section 1.4.7 were included in the 29th meeting minutes. Several of the comments require further discussion in ASG.                                                                                                                                                                                                                                                   |
| 16-30   | MTG               |         | 2     | AM-355 Stainless Steel in SCT850 Condition                                       | Agenda     | J. Rubadue will present this item.                                                                                                                                                                                                                                                                                                                                                              |





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|         | Final             | Initial |      |                                                                                                 |            |                                                                                                                                                                                                                                                      |
| 16-32   | MTG               |         | 3    | Mechanical Properties for 7097-T7651 Aluminum Alloy Plate                                       | Agenda     | J. Rubadue will present this item.                                                                                                                                                                                                                   |
| 16-34   | GTG               |         | 9    | Review Guideline on Stress-Strain Submittal for Number of Curves per Thickness Range            | Discussion | R. Rice will lead in discussions on this item.                                                                                                                                                                                                       |
| 16-36   | GTG-F             | FTG     | 9    | Use of T99 as A-Basis When Higher than Specification for Fastener Shear and Tension             | Status     | M. Tefend will present this item. An instance where the specification may be in error triggered the creation of this item.                                                                                                                           |
| 16-37   | FTG               |         | 1    | Chapter 1 Guidelines on Fastener Design Allowable Usage                                         | Status     | M. Tefend will present this item.                                                                                                                                                                                                                    |
| 16-38   | MTG               |         | 3    | Addition of 7140 Stress Corrosion Cracking Information                                          | Agenda     | J. Rubadue will present this item.                                                                                                                                                                                                                   |
| 16-39   | MTG               |         | 3    | 7010-T7451 Re-Analysis                                                                          | Status     | From Item 15-22. Waiting on additional data.                                                                                                                                                                                                         |
| 16-40   | MTG               |         | 7    | Estimated Values in Table 7.3.2.0(c) Copper Beryllium Strip                                     | Agenda     | J. Rubadue will present this item.                                                                                                                                                                                                                   |
| 16-41   | GTG               |         | 9    | Update Examples in Section 9.8.1                                                                | Status     | No effort on this item.                                                                                                                                                                                                                              |
| 16-42   | GTG               | ASG     | 9    | Guidelines for Analysis of Stress-Strain Curves with Shape Factor Variance                      | Discussion | This item will be discussed in ASG. Typically stress-strain curves are split based on tensile properties in the mechanical property tables (by thickness break). This discussion is to consider the differences in shape factor within those breaks. |
| 17-01   | MTG               |         | 3    | Expand range for 2024-T351 AMS 4120 to 8.0 inches                                               | Status     | No effort on this item. The data needs to be reviewed for statistical basis considering the QQ specification and new specifications.                                                                                                                 |
| 17-02   | MTG               |         | 3    | Revision of 7136 and 2029Alclad Stress-Strain Curves                                            | Agenda     | J. Rubadue will present this item.                                                                                                                                                                                                                   |
| 17-03   | MTG               |         | 2    | Stabilization of AMS6520 for 250 Grade Maraging Steel Sheet and Plate                           | Agenda     | J. Rubadue will present this agenda item.                                                                                                                                                                                                            |
| 17-04   | MTG               |         | 3    | Addition of 45 Degree Properties for 2055-T84 Aluminum Alloy Extrusions                         | Agenda     | J. Rubadue will present this agenda item.                                                                                                                                                                                                            |
| 17-05   | MTG               |         | 3    | Stabilization of Specifications for 2424 Bare and Clad Aluminum Alloy Sheet                     | Agenda     | J. Rubadue will present this agenda item.                                                                                                                                                                                                            |
| 17-06   | MTG               |         | 3    | Mechanical Properties for A206.0 Sand Castings                                                  | Handout    | A data package has been received. J. Rubadue will present preliminary results.                                                                                                                                                                       |
| 17-07   | MTG               |         | 3    | Stress Corrosion Cracking Data for 7136 Aluminum Alloy Extrusions                               | Agenda     | J. Rubadue will present this agenda item.                                                                                                                                                                                                            |
| 17-08   | MTG               |         | 3    | Addition of Compression and Compression Tangent Modulus Stress-Strain Curves for 2099-T86 Plate | Agenda     | J. Rubadue will present this agenda item.                                                                                                                                                                                                            |
| 17-09   | MTG               |         | 3    | Fatigue Curves for 2099-T83 Extrusion                                                           | Status     | Arconic submitted data for extrusion L (0.062 – 3.000 in. thick) and LT (0.512 – 3.000 in. thick)                                                                                                                                                    |
| 17-10   | MTG               |         | 4    | Fatigue Curve for 2099-T81 Extrusion                                                            | Status     | Arconic submitted data for extrusion L (0.512 – 1.122 in. thick)                                                                                                                                                                                     |



## 30th MMPDS Coordination Meeting

# AGENDA ITEM SUMMARY - Preliminary

(Sorted by Item Number)

Issued: 1/24/17

| Item No | Responsible Group |         | Chpt | Title                                                         | Type         | 30th Meeting Description                                                                                   |
|---------|-------------------|---------|------|---------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------|
|         | Final             | Initial |      |                                                               |              |                                                                                                            |
| 17-11   | MTG               |         | 5    | Fatigue Curve for 2026-T3511 Extrusion                        | Status       | Arconic submitted data for extrusion L (0.0625-1.390 inch thick).                                          |
| 17-12   | MTG               |         | 6    | Fatigue Curve for 2624-T351 Plate                             | Status       | Arconic submitted data for plate L (0.500-1.500 inch thickness).                                           |
| 17-13   | MTG               |         | 3    | Update of Modulus for 2297-T87 Plate                          | Agenda       | J. Rubadue will present this agenda item. Modulus testing was done per ASTM E111.                          |
| 17-14   | MTG               |         | 3    | Physical Properties for 2099-T86 Aluminum Alloy               | Agenda       | J. Rubadue will present this agenda item.                                                                  |
| 17-15   | MTG               |         | 3    | Physical Properties for 2397-T87 Aluminum Alloy               | Agenda       | J. Rubadue will present this agenda item.                                                                  |
| 17-16   | MTG               |         | 3    | Physical Properties for 2026-T3511 Aluminum Alloy             | Agenda       | J. Rubadue will present this agenda item.                                                                  |
| 17-17   | MTG               |         | 3    | Stress-Strain Curves for 2026-T3511 Aluminum Alloy Extrusions | Agenda       | J. Rubadue will present this agenda item to add tensile and compressive curves in the L and LT directions. |
| 17-NIN  | MTG               |         | 3    | 6061 Plate T6X up to 12 inches, expand range                  | Status       | J. Rubadue will give a status report.                                                                      |
| 17-NIN  | GTG               | PSG     | 9    | Isochronal Stress Strain Curves                               | Status       | This item will be closed with no action. If there is interest a new item will be opened.                   |
| 17-NIN  | MTG               |         | 3    | Inclusion of Properties for AMS 4221, 2124-T8151 Plate        | Status       | Data are requested.                                                                                        |
| 17-NIN  | GTG               | ETWG    |      | Norsk Titanium RPD™ Ti-6Al-4V Material.                       | Presentation | Pedrum Sodouri, Norsk Titanium, will give this presentation during ETWG.                                   |