

Meeting Agenda

To: MIL-HDBK-5 Coordination Group
Date: September 30, 1998
Subject: 96th MIL-HDBK-5 Coordination Meeting

The 96th MIL-HDBK-5 Coordination Meeting will be held October 19-22, 1998, at the Congress Plaza Hotel and Convention Center, 520 South Michigan, Chicago, Illinois, phone (312) 427-7264. **Hotel reservations were to have been made by September 18, 1998.** After this date, reservations will be accepted on a space-available basis at non-discounted rates. The corporate/group rate is \$135.00 plus 14.9% tax. The government rate is \$104.00 plus 14.9% tax; with evident of official government orders only.

The Congress Plaza Hotel & Convention Center is located at the corner of Congress Parkway and Michigan Avenue, across from Grant Park. The hotel provides round-trip airport transportation at a cost of \$28.00 from O'Hare International and Midway Airports. In order to use this service, call Airport Express at (800) 654-7871. Parking is located just one block from the hotel at Harrison Parking (inside the Travelodge Hotel), 605 South Wabash Avenue, (312) 663-0979 at an overnight rate of \$16.00 per day.

Registration

A registration fee of \$45.00 U.S. will be charged for participation at the 96th MIL-HDBK-5 Coordination meeting. The fee will be used to defray the cost of meeting room rental fees, audiovisual equipment, and refreshments served at the meeting. Your registration forms and checks payable to Battelle is due by October 5, 1998.

Meeting Information/Agenda

Enclosed is a schedule for the meetings (see Table 1). The general coordination meeting will take place on Thursday, October 22, beginning at 8:15 a.m. The meeting will begin with the MIL-HDBK-5 Coordination Group meeting.

At the 95th meeting, a summary of several data packages for new materials was presented to the general coordination committee. These materials cover new aluminum alloys, metal matrix composites, and steel alloys. The data for most of these are in the process of being analyzed while the data for others are in the process of being collected. Data proposals for some of these materials such as 7055 aluminum alloy, as indicated in the agenda, will be included in a handout that will be provided at the meeting. A status report will be provided for the others.

September 30, 1999

Additional Meetings

Two additional meetings to be held during the week that were not listed on the earlier announcement are:

- The Navy/Air Force Government Industry Steering Group on Titanium Investment Castings for Airframe Structures will be meeting jointly with interested parties from the MIL-HDBK-5 committee on Tuesday, October 20, 1998 from 4:30-6:00 p.m. and again in an evening session. The objective of the group is to expand the use of structural investment castings. The group's approach is to review current usage, identify issues and obstacles, and prioritize actions such as pooling of data and pursuit of design values. The chairman of the group, Dr. Eui Lee, may be reached at (301) 342-8071.
- The National Aerospace Standards Military-1312 will meet from 1:15 - 4:30 p.m. on Thursday, October 22. Please call Bernie Beal at (516) 421-5683 if you have any questions.

Sincerely,

Neal Ontko, Chairman
MIL-HDBK-5 Coordination Group
Wright Laboratories, Materials Directorate
Wright Patterson AFB, OH 45433

NRO:DFL/bkb
Enc.

Table 1. Schedule of Meetings for the 96th MIL-HDBK-5 Coordination Meeting

Time Period	Monday		Tuesday	Wednesday			Thursday
	Steering Groups		Guidelines Task Groups	Materials Task Groups			
8:15am – 10:00	Open		SWG	DFWG	Joint FIWG/FTG		GCC
10:00 – 10:15			Break	Break			
10:15 – 12:00	Open	ASG	GTG	MTG	FIWG	FTG	
12:00pm – 1:15	Lunch Break						
1:15 – 3:00	Open	ISG	GTG	MTG	FIWG	FTG	NASM-1312
3:00 – 3:15	Break				Break		
3:15 – 4:30	GSG				Joint FIWG/FTG		
4:30 – 6:00	Joint ISG/GSG		Navy-Air Force	Space Reserved If Needed			Open

- GCC = General Coordination Committee (open)
- GSG = Government Steering Group (invitation only)
- ASG = Airframer Steering Group (invitation only)
- ISG = Industrial Steering Group (invitation only)
- GTG = Guidelines Task Group (open)
- SWG = Statistics Working Group (open)
- MTG = Materials Task Group (open)
- DFWG = Die Forging Working Group (open)
- FTG = Fastener Task Group (invitation only)
- FIWG = Fastener Industry Working Group (open)

- Navy-Air Force Government-Industry Steering Group on Titanium Investment Castings For Airframe Structures (open)
- Dr. Eui Lee, Chairman NAWC,
- Phone: (301) 342-8071

**Agenda
for the
96th MIL-HDBK-5 Coordination Meeting
to be held in
Chicago, IL
October 19-22, 1998**

**(The overall schedule of task and steering group
meetings is attached.)**

CHAPTER 1. GENERAL

- No Item No. **AMS Coordination. (GCC)** D. Lahrman, Battelle, will provide a report on the most significant activities at the fall AMS meeting.
- No Item No. **Meetings of Potential Interest to MIL-HDBK-5 Coordination Members. (GCC)** D. Lahrman will review the agenda item containing the list of meetings.
- No Item No. **Cancellation of Government Specifications and Subsequent Replacement Specifications. (GCC)** D. Lahrman will present a status report.
- No Item No. **Collection of Additional Fatigue, Fatigue Crack Growth, and Fracture Toughness Data. (GCC)** R. Rice will present a status report on material suppliers and users having significant collections of fatigue, fatigue crack growth, and fracture toughness data on aluminum sheet and plate products.
- Item 96-11 **Chapter 1 Revision. (GTG)** R. Rice will present the attached agenda item.
- No Item No. **Special Presentation. (GCC).** B. Rosenberger will make a presentation on "Laser Direct Manufacturing, a Solid Freeform Fabrication Process for Metals."
- No Item No. **Industrial Steering Group. (GCC).** R. Rice will present a status report on ISG supported activities.
- No Item No. **Guidelines Task Group. (GTG)** All items marked (GTG) will be reviewed in the Guidelines Task Group meeting, which will be held on Tuesday, October 20, beginning at 10:15 am.
- No Item No. **Materials Task Group. (MTG)** All items marked (MTG) will be reviewed in the Materials Task Group meeting, which will be held on Wednesday, October 21, beginning at 10:15 am.

No Item No. **Statistics Working Group. (SWG)** All items marked (SWG) will be reviewed in the Statistics Working Group meeting, which will be held on Tuesday, October 20, beginning at 8:15 am.

No Item No. **Historical Note: Recommended Design Properties for Wood in ANC-5 in 1938. (GCC)** As a matter of historical interest only, R. Rice will present the attached agenda item.

CHAPTER 2. STEEL ALLOYS

Item 95-2 **Replacement of Cancelled MIL-Specifications in Chapter 2. (MTG)**
D. Lahrman will review a handout.

Item 98-10 **A- and B-Basis Properties for AerMet 100 (280 ksi). (MTG)**
D. Lahrman will provide a status report.

CHAPTER 3. ALUMINUM ALLOYS

No Item No. **Die Forging Work Group. (DFWG)** P. Brouwer, Alcoa, will provide a status report on current and future activities. A copy of the agenda for the DWFG meeting, which will begin at 8:15 am on Wednesday, October 21, is attached.

Item 95-28 **Review of the Fracture Toughness Tables in Chapter 3. (MTG)** R. Rice will present the attached agenda item.

Item 97-3 **A- and B-Basis and Derived Properties for 7055-T7751 Aluminum Alloy Extrusion. (MTG)** D. Lahrman will review a handout.

Item 97-4 **A- and B-Basis and Derived Properties for 7055-T7751 Aluminum Alloy Plate. (MTG)** D. Lahrman will review a handout.

Item 97-5 **A- and B-Basis and Derived Properties for 7050-T7451 Aluminum Alloy Plate, 6.001 to 8.000 inches. (MTG)** D. Lahrman will provide a status report.

Item 97-6 **A- and B-Basis and Derived Properties for Clad 2424-T3 Aluminum Alloy Sheet. (MTG)** D. Lahrman will provide a status report.

Item 97-7 **A- and B-Basis and Derived Properties for Bare 2424-T3 Aluminum Alloy Sheet. (MTG)** D. Lahrman will provide a status report.

No Item No. **Precision Modulus Procedure. (GTG)** D. Lahrman will present a status report. We are still waiting on laboratories to produce data.

Item 98-5 **Identification/Clarification of the Data Sources in Table 3.1.2.3.1(a). (MTG)** R. Rice will present the attached agenda item.

- Item 98-2 **Design Properties for Russian Alloy 1163-T7. (MTG)** Comments from Vitaly Leibov, Russian Aviation Register, on the issue of lower tail censoring will be provided.
- Item 98-14 **A- and B-Basis Tensile Properties for 7150-T7751 Aluminum Alloy Die Forgings. (MTG)** P. Brouwer will present a status report.
- Item 98-15 **A- and B-Basis Tensile Properties for 7150-T77511 Aluminum Alloy Extrusions. (MTG)** P. Brouwer will present a status report.
- Item 98-16 **A- and B-Basis Tensile Properties for 7050-T74 Aluminum Alloy Die Forgings (MTG)** P. Brouwer will present a status report.
- Item 98-17 **A- and B-Basis Tensile Properties for 7050-T7452 Aluminum Alloy Die Forgings. (MTG)** P. Brouwer will present a status report.
- Item 98-18 **Clad 2524-T3 Sheet and Plate Typical Stress-Strain Curves. (MTG)**
D. Lahrman will review a handout.
- No Item No. **Proposed Revision to Stress-Corrosion Cracking Resistance Definitions in MIL-HDBK-5. (MTG)** R. Rice will present the attached agenda item.
- No Item No. **Further Clarification of Inferior Stress-Corrosion Cracking Resistance of Several Aluminum Alloys in MIL-HDBK-5. (MTG)** R. Rice will present the attached agenda item.

CHAPTER 4. MAGNESIUM ALLOYS

No items on the agenda for this Chapter.

CHAPTER 5. TITANIUM ALLOYS

No items on the agenda for this Chapter.

CHAPTER 6. HEAT RESISTANT ALLOYS

No items on the agenda for this Chapter.

CHAPTER 7. MISCELLANEOUS ALLOYS AND HYBRID MATERIALS

- Item 95-35 **A- and B-Basis and Derived Properties Program for 6092/SiC/25p-T6P Particulate Extrusion. (MTG)** D. Lahrman will present a status report.

- Item 95-36 **A- and B-Basis and Derived Properties Program for 6092/SiC/17.5p-T6P Particulate Reinforced Extrusion. (MTG)** D. Lahrman will present a status report. The AMS specification has not been sent to the Aerospace Council.
- Item 96-19 **A- and B-Basis and Derived Properties Program for 6092/SiC/17.5p-T6P Reinforced Rolled Sheet. (MTG)** D. Lahrman will review a handout.

CHAPTER 8. STRUCTURAL JOINTS

- No Item No. **Fastener Industry Working Group. (FIWG)** J. Pratt, Textron Aerospace Fasteners, will provide a status report on current and future activities.
- No Item No. **Fastener Task Group. (FTG)** All items marked (FTG) will be reviewed in the Fastener Task Group meeting, which will be held on Wednesday, October 21, beginning at 8:15 am.
- Item 95-13 **Static Joint Strength of AF3222 Blind 100-Degree Flush Head Rivets in Clad 2024-T3 Sheet. (FTG)** and
- Item 95-14 **Static Joint Strength of AF3223 Blind Protruding Head Rivets in Clad 2024-T3 Sheet. (FTG)** T. Kilinski will present a status report.
- Item 95-15 **Static Joint Strength of CR3222 Blind 100-Degree Flush Head Rivets in Clad 2024-T3 Sheet. (FTG)** and
- Item 95-16 **Static Joint Strength of CR3223 Blind Protruding Head Rivets in Clad 2024-T3 Sheet. (FTG)** T. Kilinski will present a status report.
- Item 95-37 **Static Joint Strength of AHG AL905 100-Degree Flush Head 7050 Rivets in Clad 2024-T3 Sheet. (FTG)** S. Ford will present a status report.
- Item 97-10 **Static Joint Strength of HC6224 Blind Flush Head Rivets in Clad 2024 Sheet. (FTG)** S. Ford will present a status report.

CHAPTER 9. GUIDELINES FOR THE PRESENTATION OF DATA

- No Item No. **Statistics Working Group. (SWG)** J. Kinatader, Battelle, will provide a status report on current and future activities. A copy of the agenda for the SWG meeting, which will begin at 8:15 am on Tuesday, October 20, is attached.
- Item 94-26 **Production Methods and Their Impact on Design Allowables. (SWG)** J. Kinatader will present the attached agenda item.
- Item 95-23 **Use of Probability Plots. (SWG)** J. Kinatader will present the attached agenda item on the guidelines revision.

- Item 98-1 **Clarification of Quadratic Regression Details. (SWG)** J. Kinateder will present the attached agenda item on the guidelines.
- Item 98-3 **Procedure for Analyzing Lower Tail Censoring. (SWG)** J. Kinateder will present a status report.
- Item 95-25 **Investigation of the Pearson Type III Method for Computing T_{90} and T_{99} from Skewed Data. (SWG)** J. Kinateder will present the attached agenda item, including a guidelines revision.
- Item 95-27 **Guidelines for the Introduction of Foreign Materials into MIL-HDBK-5. (GTG)** R. Rice will review the status of a Position Paper regarding the Russian-American Materials Assessment Team (RAMAT) final report.
- Item 96-12 **Preliminary Design Handbook Concept. (GTG)** R. Rice will present a status report.
- Item 98-7 **Complete Restructuring of Chapter 9 Guidelines to Improve Usability. (GTG)** R. Rice will present a status report on the restructuring of Chapter 9.
- No Item No. **Recommendation for Revision of Fastener Guidelines. (FIWG)** S. Ford will present a status report.
- No Item No. **Revised Analytical Techniques for Analysis of Fastened Joints. (FIWG)** T. Kilinski will present a status report.
- No Item No. **Clarification of Computation for Sequential Weibull Threshold. (SWG)** J. Kinateder will present the attached agenda item, including a guidelines revision.
- No Item No. **Testing Issues of Importance in Generating MIL-HDBK-5 Bearing, Compression, Shear, and Precision Modulus Data. (MTG)** R. Rice will present the attached agenda item.