

**Aeronautical Information Services Working Group (AISWG)  
Meeting 15-04 October 6, 2015  
FAA AeroNav Products  
Silver Spring, MD and Oklahoma City, OK**

**1. Opening Remarks:**

**a. Introduction.** Mr. Chris Criswell, AJV-5, opened the meeting at 0830, October 6, 2015, from the AeroNav Products conference room in Silver Spring, MD with participation from the AeroNav Products conference room in Oklahoma City, OK via the video-teleconferencing (VTC) system and additional participation via audio teleconferencing (telecon). The minutes of meeting 15-03, which was held on July 7, 2015, were approved.

**b. Attendance.**

Name	Organization	Phone	Email
Silver Spring, MD			
Jennifer Hendi	FAA/AJV-5530	301-427-4816	<a href="mailto:jennifer.l.hendi@faa.gov">jennifer.l.hendi@faa.gov</a>
Tom Harris	FAA/AJV-21	202-267-9293	<a href="mailto:thomas.g.harris@faa.gov">thomas.g.harris@faa.gov</a>
John DeMaria	FAA/AJV-3212	301-427-4960	<a href="mailto:john.a.demaria@faa.gov">john.a.demaria@faa.gov</a>
John Graybill	FAA/AJV-22	202-385-7457	<a href="mailto:john.graybill@faa.gov">john.graybill@faa.gov</a>
George Sempeles	FAA/AOV-110	202-267-9290	<a href="mailto:george.p.sempeles@faa.gov">george.p.sempeles@faa.gov</a>
Lance Christian	NGA/MSR	571-557-3870	<a href="mailto:lance.d.christian@nga.mil">lance.d.christian@nga.mil</a>
Justin Nahlik	NGA	571-557-8803	<a href="mailto:justin.m.nahlik@nga.mil">justin.m.nahlik@nga.mil</a>
Joseph Jackson	FAA/AJV-22	301-427-5411	<a href="mailto:joseph.a.jackson@faa.gov">joseph.a.jackson@faa.gov</a>
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Valerie Watson	FAA/AJV-5530	301-427-5155	<a href="mailto:valerie.s.watson@faa.gov">valerie.s.watson@faa.gov</a>
Mike Wallin	FAA/AJV-5331	202-267-6494	<a href="mailto:michael.wallin@faa.gov">michael.wallin@faa.gov</a>
Robert Carlson	FAA/AJV-5641	301-427-5134	<a href="mailto:robert.d.carlson@faa.gov">robert.d.carlson@faa.gov</a>
Krystle Behrns	FAA/AJV-5614	301-427-4820	<a href="mailto:krystle.a.behrns@faa.gov">krystle.a.behrns@faa.gov</a>
Lincoln Lounsbury	FAA/AJV	202-267-6433	<a href="mailto:lincoln.ctr.lounsbury@faa.gov">lincoln.ctr.lounsbury@faa.gov</a>
Mike Foster	Army	703-804-4869	<a href="mailto:James.m.foster1.civ@mail.mil">James.m.foster1.civ@mail.mil</a>
Stephen Burrows	Army	719-556-8736	<a href="mailto:Stephen.m.burrows.mil@mail.mil">Stephen.m.burrows.mil@mail.mil</a>
Oklahoma City, OK			
Steve VanCamp	FAA/AFS-420	405-954-5327	<a href="mailto:steve.ctr.vancamp@faa.gov">steve.ctr.vancamp@faa.gov</a>
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**2. Old Business:**

**a. 09-076 (October 6, 2009) Airway Minimum Turning Altitude (MTA).**  
**ISSUE:** At the closure of meeting 09-04, Paul Eure presented a question that he had

received from Denver ARTCC involving a minimum turning altitude over various airway combinations over the Jackson Hole VORTAC. The MTAs are significantly above the MEAs and are documented on the Form 8260-2 for the facility/fix. Paul's question is how are controllers and pilots made aware of turning restrictions and should there be a charting standard?

Status 10-06-09: New issue opened from the floor as a result of a post meeting question raised by Paul Eure. Apparently, there are criteria in TERPS to evaluate minimum turning altitudes on airways. There is policy in Order 8260.19 on how to document MTAs on Form 8260-2. However, there is no policy to ensure pilot or controller awareness of MTAs. Bill Hammett stated that this is a serious issue and recommended that it be added to the AISWG agenda for resolution. Tom Schneider, Chair AISWG agreed. **OPEN.**

IOU: Tom Schneider will research the rationale behind the 8260-2 documentation requirement.

Status 01-05-10: Tom Schneider briefed that this issue is being worked through the US-IFPP as there is a possibility of criteria changes. Tom also stated that AFS-420 is also internally discussing the need for documentation guidance and possible charting requirements. **OPEN.**

IOU: Tom Schneider to continue to track and work the issue.

Status 03-30-10: John Bordy presented a briefing validating the issue and recommending both short-term and long-term solutions. John emphasized that he didn't believe there are too many of the Jackson Hole MTA scenarios. A discussion followed. Don Harmer expressed concern over chart clutter. Val Watson stated that if the occurrence of MTAs is as uncommon as believed, there would not be a significant chart clutter issue. She recommended that the information be placed as an airway remark on the 8260-16. Since this form goes through Part 95, the information would be charted immediately and IACC specs would not need to be addressed. On the other hand, using a "T" or other symbol to represent the MTA would require approval of the IACC. Tom Schneider responded that the -16 documentation requirement is being considered for Change 1 to Order 8260.19D. Lance Christian stated that the problem should not exist and recommended that MEAs be increased to accommodate any required MTA. John responded that MEA increases would impact all users (even those not turning) as well as ATC facilities. Bill Hammett asked whether MEAs could be directional; for example, regarding JAC, retain the lower MEA for southbound traffic and raise the northbound MEA to accommodate the MTA. Lance suggested a search of the NAS to see how many MTAs are required. Rick Mayhew stated that he would see if NASR could determine this. Bill Hammett re-capped the issue and stated that several IOUs are necessary. **OPEN.**

IOUs: 1) Rick Mayhew will attempt to determine the extent of the problem through a NASR inquiry; 2) Val Watson will coordinate a possible charting solution through the MPOC; 3) The En route Service Unit must take immediate corrective action to resolve current known MTA requirements; 4) The En route Service Unit will develop

controller guidance for 7110.65 and the PCG; 5) Tom Schneider to develop documentation requirements for Form 8260-16; and 6) Tom Schneider to work within AFS-400 to ensure pilot educational material for the AIM and IPH is updated accordingly.

Status: 06-29-10: There were 6 IOUs on this issue from the last meeting that were addressed in order:

1. Rick Mayhew briefed that he searched the NFDC worldwide resources database and uncovered 8 fixes with MTAs. He cautioned that as the search process utilized mapping text from an example Form 8260-2 and used an Optical Character Recognition program, there may be additional fixes with MTAs whose documentation does not match the search parameters. **IOU CLOSED.**

2. Valerie Watson briefed that the last MPOC meeting was cancelled; therefore, the issue has not been discussed yet. She needs a sample 8260-16 in order to write the spec change. Brad Rush will supply a sample. At the next MPOC meeting, she will propose that a new symbol for MTAs not be developed. Rather, the meaning of the existing "x" flag used to denote a MCA will be re-defined to indicate dual use for both MCAs and MTAs. Brad Rush added that as soon as IACC specs are approved, he will prepare an internal AeroNav Services policy memo to the En Route Navigation Team to implement the change prior to 8260.19 revision. Paul Eure expressed concern over pilot/controller understanding of MTA vs. MCA. Val responded that the "x" symbol will always have an associated note and its meaning will therefore be clear to the user. Lance Christian stated that the DOD has a database issue with this proposal because DAFIF will only accommodate one altitude on an airway. He re-stated his previous position that airway MEAs should be raised in order to accommodate the MTA requirements. **IOU OPEN.**

3. Paul Eure advised that all affected ARTCCs were provided copies of the form 8260-2s with known MTAs. **IOU CLOSED.**

4. Paul Eure advised that he has developed DCPs to provide controller guidance regarding MTAs. He will begin coordination when charting specifications are complete. **IOU OPEN.**

5. Tom Schneider briefed that he is developing a policy change to document MTA requirements on Form 8260-16 vice Form 8260-2 (current practice). This policy is planned for inclusion in Change 1 to Order 8260.19E. There will also be a cross reference in the 8260-2 instructions as a reminder. **IOU OPEN.**

6. Tom Schneider stated that IPH and AIM guidance cannot be developed until the charting specifications are completed. **IOU OPEN.**

The bottom line is that further action is dependent on the charting specs.

IOUs: 1) Val Watson to keep the group apprised of MPOC actions; 2) The ATO En Route Service Unit will develop controller guidance for 7110.65 and the PCG when specs are complete; 3) Tom Schneider to develop documentation requirements for Form 8260-16; and, 4) Tom Schneider to work within AFS-400 to ensure pilot educational material in the AIM and IPH is updated accordingly once charting specifications have been agreed to.

Status 10-05-10: A status update of the four open IOUs from the last meeting was provided:

1. Val Watson briefed that RD 689, which supports MTA charting via dual use of the current MCA icon, has been staffed through the MPOC and is currently in the IACC signature process. The IACC spec change should be in place by the end of the month.

**IOU CLOSED.**

2. Paul Eure briefed that two DCPs are out for comments to update the PCG and 7110.65. Comments are due NLT the end of October. **IOU OPEN.**

3. Tom Schneider briefed that Brad Rush has prepared an internal AeroNav Services memo regarding interim Form 8260-16 documentation for flight procedures personnel (A copy of the memo is attached). Tom will extract pertinent guidance from the memo and include it in Change 1 to Order 8260.19, which will be effective in March 2011. Brad briefed that they will begin documenting and charting MTAs as soon as the IACC Spec is signed. **IOU OPEN.**

4. Tom Schneider stated that he has briefed Jim Rose, AFS-420, on the necessity of updating the IPH. Paul Eure is coordinating the AIM change. **IOU OPEN.**

During discussion, Bill Hammett recommended a graphic notice be published in the NTAP to help ensure pilot/controller awareness until the AIM and IPH are updated. **IOU OPEN.**

IOUs: 1) The ATO En Route Service Unit will track the DCPs for controller guidance for 7110.65 and the PCG; 2) Tom Schneider to include documentation requirements for Form 8260-16 in Change 1 to Order 8260.19E, which is tentatively scheduled to be effective in March, 2011; 3) Tom Schneider to continue to work within AFS-400 to ensure pilot educational material in the AIM and IPH is updated accordingly; and 4) Tom Schneider & Bill Hammett to develop a Graphic Notice for the NTAP until the AIM and IPH are updated.

Status 01-11-11: A status update of the four open IOUs from the last meeting was provided:

1. Paul Eure briefed that there were several non-concurs on the DCPs being developed to provide controller guidance. Most non-concurs indicate a problem understanding the difference between MCA and MTA. The issue is being worked. **IOU OPEN.**

2. Tom Schneider briefed that guidance for documenting MTAs on Form 8260-16 has been included in Change 1 to Order 8260.19E, which is in the coordination process. He added that the -16 is being revised to a report format. **IOU CLOSED.**

3. Tom Schneider briefed that work is on-going within AFS-400 to update pilot educational material. Jim Rose, AFS-420, is working the IPH and AFS-410 is working AIM guidance.

**IOU OPEN.**

4. Tom Schneider briefed that he and Bill Hammett completed a Graphic Notice for the NTAP and forwarded it for publication. **IOU CLOSED.**

During discussion Valerie Watson recommended that the Graphic Notice be forwarded to the En Route Charting Team for development of a Safety Alert to be posted on the

AeroNav products web site. She also recommended the Notice be sent to Jeppesen so they could develop a briefing bulletin for their products. Tom stated that he had already forwarded the Notice to Ted Thompson, Jeppesen.

IOUs: 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for 7110.65 and the PCG; 2) Tom Schneider to continue to work within AFS-400 to ensure pilot educational material in the AIM and IPH is updated accordingly; and, 3) Val Watson to track AeroNav Products development of a Safety Alert for government chart users.

Status 04-05-11: A status update of the three open IOUs from the last meeting was provided:

1. Paul Eure from the En Route Service Unit was unable to attend because of illness; therefore, an update on controller ( JO 7110.65) guidance was not available. **IOU OPEN**

2. Tom Schneider briefed that work is on-going within AFS-400 to update pilot educational material. Jim Rose, AFS-420, is currently working the IPH. Tom asked Suzette Rash if she had any knowledge of AFS-410 progress on AIM guidance. Suzette responded that she was unaware of the current status of the issue within AFS-410. **IOU OPEN.**

3. Val Watson briefed that the AeroNav Products developed a Charting Notice vice a Safety Alert for government chart users. The Charting Notice is posted on the AeroNav Products web site. **IOU CLOSED**

During discussion, it was noted that Paul Eure had forwarded 8 Form 8260-2s with MTAs annotated asking when all would be charted. Brad responded that Jackson Hole, AZ (JAC) and Pomona, CA (POM) have been charted. The remaining fixes are currently being worked into 8260-16 revisions. Bill Hammett noted that he had received correspondence from Wally Roberts (NBAA consultant) expressing concern that Jeppesen has not addressed MTAs. Tom Schneider responded that he had forwarded Ted Thompson the information on JAC and agreed to follow up to ensure Jeppesen is aware of the MTA issue.

IOUs: 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to work within AFS-400 to ensure pilot educational material in the AIM and IPH is updated accordingly; and, 3) Tom Schneider to coordinate with Jeppesen to ensure they are aware of and are addressing the MTA issue. OPEN.

Status 07-12-11: A status update of the three open IOUs from the last meeting was provided:

1. Paul Eure briefed the DCP is in the final stages of approval. All non-concurs have been mitigated; however, he has no estimate when it will be signed. In the interim, there is no field guidance on MTAs for controllers. **IOU OPEN.**

2. Tom Schneider briefed that IPH guidance has been written and the revised handbook is in internal AFS coordination process. Tom also stated that he reminded AFS-

410 of the AIM guidance reminding them the cutoff is Aug 25 for February 2012 publication. **IOU OPEN.**

3. Tom Schneider briefed that he coordinated with Jeppesen and they have established a new charting process for MTAs similar to our IACC Specs. They have also received source for 7 new MTAs and all applicable Jeppesen enroute charts were updated to reflect MTAs before or on June 10. **IOU CLOSED.**

During discussion, Paul Eure asked whether all US MTAs have been charted. Brad responded that all have been worked as amended form 8260-16s. Val Watson agreed to confirm charting with the Enroute Charting Team. **OPEN.**

IOUs: 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to work within AFS-400 to ensure pilot educational material in the AIM and IPH is updated accordingly. 3) Val Watson will confirm with the Enroute Charting Team that all of the currently known MTA locations (8) have been charted.

Status 09-27-11: The following status update of the three open IOUs from the last meeting was provided:

1. Paul Eure, who represents the En Route Service Unit was not present; therefore, no update on this IOU was available. **IOU OPEN.**

2. Tom Schneider briefed that he was unable to get in touch with the AFS-410 representative to determine the AIM status. He did note that MTA information has been included in the draft IPH update. **IOU OPEN.**

3. Val Watson, who was unable to attend, forwarded the following update as received from the Enroute Charting Team:

The following airways have been amended and published with MTA remarks with effective dates as noted: V197 @ POM CA effective 11/18/10;

V236 @ OGD UT effective 1/13/11; V328 @ JAC WY effective 3/10/11;

V330 @ JAC WY effective 3/10/11; V465 @ JAC WY effective 3/10/11;

V520 @ JAC WY effective 3/10/11; V465 @ MLD ID effective 3/10/11.

Additionally, the following airways were identified for amendment to include MTA remarks based on existing -2 data:

V327 @ FLG AZ; V421 @ ECHOA CO; V85 @ ALLAN CO;

V134 / V220 / V591 @ SLOLM CO V4 / V495 / V287 @ LOFAL WA;

V495 / V4 @ JAWBN WA.

These airways are in PTS for work and should be published sometime in 2012; however, exact publication dates are undetermined at this time due to competing priorities, and a very small production work force. Since there is a plan in place to address future MTAs as they are discovered, This IOU may be closed. **IOU CLOSED.**

IOUs: 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to

work within AFS-400 to ensure pilot educational material in the AIM and IPH is updated accordingly.

Status 01-10-12: The following status update of the two open IOUs from the last meeting was provided:

1. Paul Eure, who represents the En Route Service Unit was not present; but provided an update via email stating that the MTA DCPs are still being processed and are in the final stages and about ready to go to Safety. Mike Foster asked if there was a timeframe associated with the processing of the MTA DCPs. Steven Habicht responded that Paul's email did not provide that information, and he will request an update for the next meeting. **IOU OPEN.**

2. Tom Schneider briefed that he contacted an AFS-410 representative and was assured that the updated AIM material will be published in February 2012. He also contacted Jim Rose (AFS-420) and was assured that the MTA material has been included in the IPH update. **IOU OPEN.**

IOUs: 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to work within AFS-400 and track the AIM and IPH to ensure pilot educational material is updated accordingly.

Status 04-03-12: The following status update of the two open IOUs from the last meeting was provided:

1. Paul Eure briefed that coordination is still underway, that they have resolved all non-concurs, and that the order is out for final disposition (internal FAA coordination). Val Watson asked if this included the PCG? Paul responded yes. **IOU OPEN.**

2. Tom Schneider briefed that the updated AIM material was published and that the MTA material has been included in the IPH update, which has finished coordination and should be published in the next three to five months. **IOU OPEN.**

IOUs: 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to track the IPH to ensure pilot educational material is updated accordingly.

Status 07-10-12: The following status update of the two open IOUs from the last meeting was provided:

1. Paul Eure briefed that coordination is still underway, and that they must write the safety decision memo for the DCPs. Val Watson asked if the existing MTAs have been published. Bill Hammett responded that they should have been, according to the status update provided at the AISWG meeting on 9/27/11. **IOU OPEN.**

2. Tom Schneider briefed that AFS has incorporated all comments from internal coordination into the IPH update, and the completed draft is currently out for external coordination. Chris Criswell asked where he could find a copy of the draft IPH. Tom responded that a copy is available on the Flight Standards webpage (for reference, the link is provided:

[http://www.faa.gov/about/office\\_org/headquarters\\_offices/avs/offices/afs/afs400/afs420/policies\\_guidance/draft\\_directives/](http://www.faa.gov/about/office_org/headquarters_offices/avs/offices/afs/afs400/afs420/policies_guidance/draft_directives/)). **IOU OPEN.**

**IOUs:** 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to track the IPH to ensure pilot educational material is updated accordingly.

**Status 10-02-12:** The following status update of the two open IOUs from the last meeting was provided:

1. Paul Eure briefed that work on the safety decision memo for the DCP is low priority at this time and other work has taken precedence. **IOU OPEN.**
2. Tom Schneider commented that the OPR is still working on updating the IPH. Rick Dunham mentioned that the Tech writer is still in the editing phase. **IOU OPEN.**

**IOUs:** 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to track the IPH to ensure pilot educational material is updated accordingly.

**Status 01-08-13:** The following status update of the two open IOUs from the last meeting was provided:

1. Paul Eure provided an update after the meeting. He stated that there is no change on the safety decision memo for the DCP. It is low priority at this time and other work has taken precedence. **IOU OPEN.**
2. Tom Schneider commented that the Instrument Procedures Handbook is out for coordination. **IOU OPEN.**

**IOUs:** 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to track the IPH to ensure pilot educational material is updated accordingly.

**Status 04-02-13:** The following status update of the two open IOUs from the last meeting was provided:

1. Paul Eure stated that there is no change on the safety decision memo for the DCP. It is low priority at this time and other work has taken precedence. **IOU OPEN.**
2. Tom Schneider commented that the Instrument Procedures Handbook is out for coordination. **IOU OPEN.**

**IOUs:** 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to track the IPH to ensure pilot educational material is updated accordingly.



Status 07-09-13: The following status update of the two open IOUs from the last meeting was provided:

1. Paul Eure was not present to update the group on the safety decision memo for the DCP. **IOU OPEN.**
2. Tom Schneider stated that comments are being incorporated into the Instrument Procedures Handbook by October 1, 2013. **IOU OPEN.**

IOUs: 1) The ATO En Route Service Unit will continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to track the IPH to ensure pilot educational material is updated accordingly.

Status 11-05-13: The following status updates are from the two open IOUs from the last meeting:

1. Eric Fredricks AJV-823 [eric.fredricks@faa.gov](mailto:eric.fredricks@faa.gov) (202) 385-8438 has replaced Paul Eure. **IOU OPEN.**
2. Tom Schneider advised the Chair prior to the meeting that he contacted Gill Baker, contract support for Brian Strack. Currently they are formatting and mitigating comments for the Instrument Procedures Handbook Publication is targeted for early 2014. **IOU OPEN.**

IOUs: 1) Chris Criswell will contact Eric Fredricks from the ATO En Route Service Unit so that we can continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to track the IPH to ensure pilot educational material is updated accordingly.

Status 01-07-14: The following status updates are from the two open IOUs from the last meeting:

1. Chris Criswell is waiting for an update from Eric Fredricks. **IOU OPEN.**
2. Tom Schneider advised that comments are still being coordinated for the Instrument Procedures Handbook. Publication is targeted for May 2014. **IOU OPEN.**

IOUs: 1) Chris Criswell will contact Eric Fredricks from the ATO En Route Service Unit so that we can continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to track the IPH to ensure pilot educational material is updated accordingly.

Status 04-08-14: The following status updates are from the two open IOUs from the last meeting:

1. Chris Criswell is waiting for an update from Eric Fredricks. **IOU OPEN.**

2. Tom Schneider advised that the Instrument Procedures Handbook is going out for final signature the end of April. Publication is targeted for May 2014. **IOU OPEN.**

**IOUs:** 1) Chris Criswell will contact Eric Fredricks from the ATO En Route Service Unit so that we can continue to track the DCPs for controller guidance for JO 7110.65 and the PCG; 2) Tom Schneider to continue to track the IPH to ensure pilot educational material is updated accordingly.

Status 07-08-14: The following status updates are from the two open IOUs from the last meeting:

1. Eric Fredricks said that the DCP's will need to be re-coordinated. Eric said that coordination for DCPs should not take much time. Once the DCP comments in then a Safety Risk Management Decision Memo (SRMDM) to mitigate the concerns. **IOU OPEN.**
2. Per Steve VanCamp the Instrument Procedure Handbook (IPH) was published on May 13, 2014. **IOU CLOSED.**

**IOUs:** 1) Eric Fredricks from the ATO En Route Service Unit will report back on progress of DCPs for controller guidance for JO 7110.65 and the PCG.

Status 10-07-14: The following status updates are from the two open IOUs from the last meeting:

1. Eric Fredricks said that the Safety Risk Management Decision Memo (SRMDM) is almost ready for internal coordination. Within the next 45 days it will be ready for review. **IOU OPEN.**

**IOUs:** 1) Eric Fredricks from the ATO En Route Service Unit will report back on progress of SRMDM.

Status 02-03-15:

1. Eric Fredricks reported via email that the DCP for MTA's has been sent to field facilities for initial coordination and a number of comments have been received. Next step in the process is to resolve these comments and then the DCP will be submitted for management signature for approval for publication. **IOU OPEN.**

**IOUs:** 1) Eric Fredricks will report back on progress of the DCP.

Status 04-07-15:

1. Kevin Aurandt of AJV-823 En Route Procedures reported that he has received negative feedback regarding the proposal. Kevin said he believes that the turning

restrictions should be resolved and will discuss further with Paul Eure. Val Watson will provide Kevin a list of MTA's in the NAS. **IOU OPEN.**

**IOUs:** 1) Kevin Aurandt will report back on progress of resolving comments to the DCP.

Status 07-07-15:

1. Kevin Aurandt of AJV-823 En Route Procedures was not in attendance to update the working group. Tom Schneider and Val Watson pointed out that MTA guidance has been published within the Instrument Procedures Handbook (IPH) and Order 8260.3 (TERPS). Kevin's objection was that MTAs were not covered in the CFRs – TERPs is a part of CFR, so this is not an issue. If no progress has been made on resolving controller guidance for JO 7110.65 and the PCG by the next AISWG meeting recommend closing the issue. **IOU OPEN.**

**IOUs:** 1) Chris Criswell will contact Kevin Aurandt concerning resolving comments to the DCP.

Status 10-05-15:

1. AISWG Members agreed to close the issue. **IOU CLOSED.**

**b. 12-085 (January 10, 2012): Activity Areas Data. ISSUE:** There are currently a variety of methods for disseminating data describing aerobatic activity areas (Ultralight, Glider, Hang Glider, Aerobatic Practice & Training areas): some of these areas are published in text form in the back matter of the A/FDs, some are represented on the Visual charts by symbols, others by boxed notes, but it is desired that the SOURCE be standardized. During a recent ACF Charting Group meeting (Issue 11-01-238), it was recommended that AIM maintain and disseminate data describing these various activity areas in a way similar to Parachute Jump Areas (PJA), so that the information is available directly from the FAA designated office in a data-based, standardized format.

Status 01-10-12: New issue submitted by Val Watson, AJV-3B. Val asked if these areas could be better described to provide more information and a better source of data for charting. Chris Criswell responded that designating specific areas for these activities can be difficult because they are not well defined. Jeff Waterman stated that some aerobatic areas are well defined, and that these areas should be stored in the database similar to PJAs. Brad Rush stated that this data must be stored with source information to provide accountability for this data. Chris also stated that if these areas are defined by a radius about a point, as several people suggested, that the point may overlap with other symbols on the chart, and that coordination would be needed to determine the cartographic judgment to be used in these cases. Val responded that charting standards for the areas already exists, with cartographic rules for hierarchy of symbols and offset when necessary, and that detail is an AeroNav Products issue and not what is being addressed here - what

AeroNav Products is looking for (and what Jeppesen is looking for) is a more consistent and complete sourcing of these areas, preferably in the NASR database and with as much location information (e.g., lat/long) as possible. Val stated that Ted Thompson from Jeppesen specifically requested at the ACF Charting Group meeting that glider, ultralight, hang glider & training operations areas be databased in the same fashion as PJA's. Curtis Davis asked who the source would be for this data, and suggested that it may be the Service Centers although they are not reliable. Chris responded that the OSGs should be the source. Chris agreed to investigate what solutions AIM could provide for this issue. **OPEN.**

IOU: Chris Criswell will research database options for activity (e.g., aerobatic, glider) areas data and report them to the group.

Status 04-03-12: Chris Criswell briefed that the NFDC has established a process for adding changes to activity areas within Special Notices section to the NFDD, and that the NFDC is currently gathering requirements for databasing these areas in a similar manner to PJAs. Val Watson asked if these changes are included in the add-on pages of the NFDD. Chris responded yes. **OPEN.**

IOU: Chris Criswell will keep the group updated on database options for activity (e.g., aerobatic, glider) areas data.

Status 07-10-12: John Graybill briefed that the NFDC is currently developing Order 7900.3 to standardize submission of airspace data, including special activity area. The order will contain forms that standardize the data required by the NFDC and will prepare the NFDC to maintain the data in a database in the future. Tom Schneider asked if the airway data being defined in this order would affect the 8260-16 forms. John responded that the 8260-16 form would not be affected since Order 7900.3 only covers non-regulatory airways. Val Watson stated that customers (e.g., Jeppesen) have complained that they cannot track changes to the special notices using the NFDD add-on pages, and are requesting a timeframe for when the notices will be databased. John responded that he could not provide a timeframe for this request. Chris Criswell suggested that AeroNav Products should disseminate changes to the Special Notices to improve efficiency, since they currently process the changes through the NFDC's Aeronautical Chart Changes (ACC) portal and then create the add-on pages for the NFDD. Brad Rush responded that data should be submitted through the portal, validated by AIM, and distributed via the NFDD to AeroNav Products for publication (i.e., AeroNav Products should not be involved with the data changes). Chris responded that since the recent ATO re-organization, the cartographic standards role has been moved from AIM to AeroNav Products, and thus the responsibility for the ACCs also moved. Val stated that this function should not be performed by AeroNav Products, and that it is AIM's function to validate data. Chris responded that the changes come from a variety of sources, and it is the function of cartographic standards to coordinate and validate these changes. Deb Copeland added that AeroNav Products is now performing these functions, and that they have been adding brief, descriptive text to the top of the add-on pages that highlight the changes to airport

diagrams and sketches. Val asked if this text could be added to the add-on pages for Special Notices. Deb responded yes. **IOU OPEN.**

- IOU: 1) Chris Criswell will keep the group updated on database options for activity (e.g., aerobatic, glider) areas data.  
2) John Graybill will keep the group updated on the status of Order 7900.3.  
3) Deb Copeland will have the add-on pages for Special Notices updated to include a brief textual description of the changes.

Status 10-02-12: The following status update of the three open IOUs from the last meeting was provided:

1. Chris Criswell briefed that requirements are being developed to collect, database and disseminate activity areas from NASR via the NFDD. **IOU OPEN.**
2. John Graybill provided an update prior to the meeting: Order 7900.3 currently out for comment . **IOU OPEN.**
3. There was no update. Val Watson briefed the group that Terry Sharp is the new A/FD manager. **IOU OPEN.**

- IOU: 1) Chris Criswell will keep the group updated when NASR will begin disseminating activity (e.g., aerobatic, glider) areas data.  
2) John Graybill will keep the group updated on the status of Order 7900.3.  
3) Terry Sharp will brief on the status of the textual description activity area Special Notices.

Status 01-08-13: The following status update of the three open IOUs from the last meeting was provided:

1. Chris Criswell briefed that the current focus is on creation of fillable PDF's forms that will be used to submit the different types of activity areas data through the Aeronautical Chart Changes (ACC) web portal. Once the Order is complete the forms will be placed on NFDC.FAA.GOV and submitted through the ACC web portal to AeroNav Products who will place the information within the ADD-ON page of the NFDD. Ultimately the fillable PDF forms will used to develop the functionality within eNASR. **IOU OPEN.**
2. John Graybill provided and update prior to the meeting that Order 7900.3 is still be worked on. Tom Schneider asked if 7900.3 has been distributed for comment. Greg Pray said that he will find out if the 7900.3 has been sent out for comment and will provide. **IOU OPEN.**
3. Adam Edmondson, A/FD team lead briefed the group that the A/FD team currently receives Special Notice activity areas through the ACC webportal. The A/FD team

will vet the Special Notice and then post the change within the ADD-ON page of the NFDD. **IOU OPEN.**

IOU: 1) Chris Criswell will keep the group updated on when the fillable pdf forms will be made available on NFDC.FAA. and on the eNASR enhancement to accommodate the activity areas data.

2) John Graybill will keep the group updated on the status of Order 7900.3.

3) Adam Edmondson will provide an update on adding the textual description activity area Special Notices to the ADD-ON page of the NFDD.

Status 04-02-13: The following status update of the three open IOUs from the AISWG were provided:

1. Chris Criswell updated the group that once the final 7900.3 Order has been distributed fillable pdf forms will be added to the nfdc.faa.gov website to allow for the submission data described within the 7900.3. **IOU OPEN**
2. John Graybill updated the group that NFDC is targeting late summer or early fall for the final Order 7900.3. **IOU OPEN**
3. Bob Carlson updated the group that the Special Activity Areas are being processed by AJV-3 and included within the ADD-ON page of the NFDD. Order 7900.3 will establish a fillable pdf form to standardize the Special Activity Area submissions. **CLOSED**

IOU: 1) Chris Criswell will keep the group updated on when the fillable pdf forms will be made available on NFDC.FAA.GOV.

2) John Graybill will keep the group updated on the status of Order 7900.3 and the associated fillable pdf forms.

Status 07-09-13: No status updates for the open IOUs were provided. **IOU OPEN.**

IOU: 1) Chris Criswell will keep the group updated on when the fillable pdf forms will be made available on NFDC.FAA.GOV.

2) John Graybill will keep the group updated on the status of Order 7900.3 and the associated fillable pdf forms.

Status 11-05-13: The following status updates are from the two open IOUs from the last meeting:

1. John Graybill stated that AIM is still working on the 7900.3 which will provide guidance on submitting activity area data using fillable PDF forms.
2. Chris Criswell indicated that NASR's priority is currently NavLean requirements and any development to support other requirements will be scheduled after the NavLean work is complete. **IOU OPEN.**

IOU: 1) John Graybill will keep the group updated on the status of Order 7900.3 and the associated fillable pdf forms. 2) Chris Criswell will keep the group updated on

when the fillable pdf forms will be made available on NFDC.FAA.GOV and when NASR will be able to be modified to accommodate the new features and attributes.

Status 01-07-14: The following status updates are from the two open IOUs from the last meeting:

1. John Graybill stated that nothing has changed since the last meeting. AIM is still working on the 7900.3. **IOU OPEN.**

IOU: 1) John Graybill will keep the group updated on the status of Order 7900.3 and the associated fillable pdf forms.

Status 04-08-14: The following status updates are from the two open IOUs from the last meeting:

1. Prior to the meeting John Graybill provided an update that NFDC Manager (AJV-21), Rick Funkhouser, has re-initiated meetings to discuss the 7900.3 Order. **IOU OPEN.**

IOU: 1) John Graybill will keep the group updated on the status of Order 7900.3 and the associated fillable pdf forms.

Status 07-08-14: Rick Funkhouser briefed the group that Order 7900.3 should be complete by calendar year-end. The 7900.3 Forms will be included with the Order. The order will also provide guidance on how to populate and submit forms. The draft order is currently being circulated internally within AJV-2, forms are still being developed. Chris Criswell asked Rick if he has coordinated with the Nav Lean Program. **IOU OPEN.**

IOU: 1) John Graybill will keep the group updated on the status of Order 7900.3 and coordination with the Nav Lean Program.

Status 10-07-14: John Graybill reported that the draft Order 7900.3 is still in progress. John met with Sue Gardiner concerning collection, storage and dissemination of aerobatic areas in NASR. The process for collection and submission of aerobatic areas and UAS areas will be contained within Order 7900.3. **IOU OPEN.**

IOU: 1) John Graybill will keep the group updated on the status of Order 7900.3.

Status 02-03-15: John Graybill reported that NFDC has begun talks with the NASR contractor in order to create a new Miscellaneous Activity Area resource in NASR. This resource will include the following Activity Area types: Glider, Hang Glider, Ultralight, Aerobatic Practice, Space Launch Activity (SLA), and Unmanned Aircraft (UA). Once this data is added to NASR, any changes will automatically generate NFDD entries, thus eliminating the process of creating NFDD add-on pages. The target date for adding this

resource to NASR is late fall, 2015. The draft Order 7900.3 will contain instructions for submitting this data to NFDC.

Also, in conjunction with this effort, John reported that NFDC is developing web-based digital forms that will allow users to submit this data via the Aeronautical Chart Change (ACC) portal. The digital forms will allow for the automatic validation of data, thus saving time for both the data submitters and NFDC. NFDC continues to meet work with Sue Gardner regarding Aerobatic Practice Area data, Anna Cushman regarding Space Launch Activity Areas, and Eric Lautenschlager on Unmanned Aircraft area data.

**IOU:** 1) John Graybill will keep the group updated on the status of Order 7900.3, the Miscellaneous Activity Area resource in NASR, and the creation of digital forms for this data.

**Status 04-07-15:** John Graybill reported that NFDC is in the process of finalizing NASR requirements to support Activity Area types: Glider, Hang Glider, Ultralight, Aerobatic Practice, Space Launch Activity (SLA), and Unmanned Aircraft (UA). The target date for adding this resource to NASR is late fall, 2015. The draft Order 7900.3 will contain instructions for submitting this data to NFDC.

Michael Wallin from NFDC stated that "Activity Area" Special Notices will be vetted by NFDC and distributed via a NFDD add-on page.

Val Watson stated that she will submit any charting specification changes to the IACC MPOC. **IOU OPEN.**

**IOU:** 1) John Graybill will keep the group updated on the status of Order 7900.3, the Activity Area resource in NASR, and the creation of digital forms for submitting this data. 2) Val Watson will update the group on charting specification changes.

**Status 07-07-15:** John Graybill reported that requirements for a new NASR Activity Area resource that would include Glider, Hang Glider, Ultralight, Aerobatic Practice, Space Launch Activity (SLA), and Unmanned Aircraft (UA) areas have been submitted and are awaiting development. The target date for inclusion into NASR has been pushed back to early 2016. Once IACC RD 751 has been finalized, a listing of all current Aerobatic Practice Areas will be published in the NFDD. **IOU OPEN.**

**IOU:** 1) John Graybill will keep the group updated on the status of NASR Activity Area resource. 2) Val Watson will update the group on IACC RD 751.

**Status 10-05-15:**

1. AISWG Members agreed to close the issue once Greg Pray signs IACC RD 751. **IOU OPEN.**



c. **12-088 (April 3, 2012): Revision of the AIM. ISSUE:** During discussion of Issue 09-076 (Airway Minimum Turning Altitude (MTA)), Paul Eure presented a question regarding revision of the FAA Aeronautical Information Manual (AIM). Paul asked who the OPR of the AIM was and how changes to the AIM are coordinated? He felt that changes to the AIM may not be adequately coordinated across the domain of affected stakeholders.

Status 04-03-12: New issue initiated by Paul Eure, AJE-31. During discussion of another issue, Paul Eure asked who the OPR of the AIM was. Tom Schneider replied that each paragraph of the AIM has a particular OPR, and that Brenda Hawkins with the AIM office has a matrix listing of this information that is periodically distributed. Paul responded that changes to the AIM are not being effectively coordinated, and cited a recent example when an additional option (“heavy”) was added to the AIM to describe the icing level, and that this led to confusion as not all involved were aware of the change. Chris responded that this is an important issue that will be added as a new business item for the next meeting.

IOU: Chris Criswell will request that Brenda Hawkins or another member of the AIM office provide a briefing on submitting and coordinating changes to the AIM at the next AISWG meeting.

Status 07-10-12: Chris Criswell briefed that he contacted the AIM office and was informed that all changes to the AIM should be routed through either Heather Mathieson (AJV-11) or Kolie Lombard (AFS-410), who will coordinate with the OPR of the section affected by the change. Bill Hammett responded that this represents a change from the past, in which all changes to the AIM were routed through one person in the office of primary responsibility (OPR), now AJV-362, for coordination and publication. Bill added that there was a list of OPRs for each specific paragraph in the AIM that was maintained by AJV-362. It was acknowledged that the list is outdated. Paul Eure stated that this issue was presented because the AIM was updated without the proper coordination and resulted in incorrect information being published. Chris stated that a current listing of the OPRs for the AIM is needed so that changes can be properly coordinated. Bill stated that the AIM currently instructs users to submit changes to AJV-362 via a form, which give the impression that AJV-362 will coordinate the changes. Brad Rush responded that AJV-362 just publishes the information and isn’t responsible for the coordination. Paul responded that when he completes a DCP for the AIM, he submits it to Heather Mathieson for coordination. Bill asked how Paul knew to coordinate changes with Heather (AJV-11) when the AIM says to go through AJV-362. Paul responded that his group follows an internal SOP for submitting DCPs to the AIM. Bill responded that the AIM crosses several lines of business and proper guidance for submitting and coordinating changes needs to be publically available to ensure the proper coordination procedures are followed. **IOU OPEN.**

IOU: Brad Rush will request that Brenda Hawkins or another member of the AIM office (AJV-362) provide a briefing on submitting and coordinating changes to the AIM at the next AISWG meeting.

Status 10-02-12: Guy Copeland briefed the group that management of AIM changes has been transferred to Gary Norek's group (AJV-11). Bill Hammett responded that the AIM OPR master list has fallen out of use and needs to be updated so that changes can be properly coordinated. Guy Copeland believes the AIM will be incorporated into JPAMS. **IOU OPEN.**

IOU: Chris Criswell will request that Gary Norek (AJV-11) provide a briefing on submitting and coordinating changes to the AIM at the next AISWG meeting.

Status 01-08-13: Chris Criswell briefed the group that he spoke to Gary Norek's group (AJV-11). Gary stated that the Project Lead, Mike LaJuene is working on finalizing the OPR list for the AIM. Bill Hammett stated that the other issue that needs to be addressed is in regards to improving the coordination of AIM changes. Chris stated that a system currently being developed called JPAM is supposed to be the process management system that improves the coordination of Order changes. **IOU OPEN.**

IOU: 1. Chris Criswell will request that Mike LaJuene provide the master list of AIM OPR's by the next AISWG. 2. Mike LaJuene will provide a briefing on submitting and coordinating changes using JPAM at the next AISWG meeting.

Status 04-02-13: Mike LaJuene was not able to attend the AISWG. Chris Criswell will request that he attend the next AISWG. **IOU OPEN.**

IOU: 1. Chris Criswell will request that Mike LaJuene provide the master list of AIM OPR's by the next AISWG. 2. Mike LaJuene will provide a briefing on submitting and coordinating changes using JPAM at the next AISWG meeting.

Status 07-09-13: No status updates for were provided for the two open IOU's from the last AISWG. **IOU OPEN.**

IOU: 1. Chris Criswell will request that Mike LaJuene provide the master list of AIM OPR's by the next AISWG. 2. Mike LaJuene will provide a briefing on submitting and coordinating changes using JPAM at the next AISWG meeting.

Status 11-05-13: No status updates for were provided for the two open IOU's from the last AISWG. **IOU OPEN.**

IOU: 1. Chris Criswell will request that Mike LaJuene provide the master list of AIM OPR's by the next AISWG. 2. Mike LaJuene and/or Gary Norek will provide a briefing on submitting and coordinating changes using JPAM at the next AISWG meeting.

Status 01-07-14: According to Michael LaJuene DCP's coordination procedures were for ATO changes not other lines of businesses. AFS has provided their requests directly to the publication team that used to be in AJV-3, which now resides in AJV-8. So AFS changes were never coordinated within our process. I have been in contact with Bruce McGray and

Kolie Lombard in AFS and all indications are that they are strongly looking into the possibility of using the JPAMS system and would be incorporated into the next generation of work flows. AJV-8 is in the process of re-evaluating the present coordination procedures. Recommend request a meeting with the JPAMS team to discuss the DCP coordination process as we move forward with the next generation of work flows. Michael LaJuene stated that he will provide a PDF with the primary and subsequent owners, plus stakeholders of the content. **IOU OPEN.**

**IOU:** 1. Chris Criswell will follow-up with Mike LaJuene about the master list of AIM OPR's by the next AISWG. 2. Request Bruce Mcgray provide a briefing on submitting and coordinating DCP's at the next AISWG meeting.

Status 04-08-14: Lynette Jamison and Michael LaJuene both reiterated that the future process will be built into JPAMS. Lynette took the action to contact Heather Hemdel (sp?) to verify the future process. Michael will provide a final review of the master list of AIM OPR's by the next AISWG. **IOU OPEN.**

**IOU:** 1. Mike LaJuene will review the master list of AIM OPR's and provide the list to the AISWG by the next meeting. 2. Lynette Jamison will update the AISWG on her discussion with Heather Hemdel (sp?) on the future process for submitting and coordinating DCP's at the next AISWG meeting.

Status 07-08-14: The Master List of AIM OPR's was provided to the AISWG and will be posted to <https://nfdc.faa.gov/xwiki/bin/view/AISWG/WebHome> . Michael LaJuene and George Bayer from the PMO stated that JPAMS is currently in development. Phase 1 will phase out legacy system – new JPAMS will replace paper manuals with digital – HTML and PDF. The new format will be searchable. Phase 2 is the DCP process – changes being handled digitally will reduce change cycle time. Phase 1 development completes by end of September. October 1 is Phase 1 completion goal. Phase 2 follows, DCP workflow process should be finalized by end of July. AJV-8 is the group supplying requirements. Mike requested assistance with assessing all required DCP workflows. Overlap timeframe between implementation of JPAMS and phase out of DCPs will be lengthy. Training will be conducted prior to go-live; go-live will be summer of 2015. The legacy DCP process/system will phase out by 2016. **IOU OPEN.**

**IOU:** 1. George Bayer and Mike LaJuene will schedule a meeting with Tom Schneider to discuss DCP workflows to be built into JPAMS.

Status 10-07-14: The Master List of AIM OPR's was posted to <https://nfdc.faa.gov/xwiki/bin/view/AISWG/WebHome> . Michael LaJuene and George Bayer from the PMO were not in attendance to provide an update on JPAMS **IOU OPEN.**

**IOU:** 1. JPAMS development update.

Status 02-03-14: No update was provided regarding JPAMS development. Tom Schneider asked if the Master List of AIM OPR's is currently complete and being maintained. He requested the Master List of AIM OPR's be posted on the Air Traffic Pubs website.  
**IOU OPEN.**

IOU: 1.Chris Criswell will provide an update concerning completeness of the Master List of AIM OPR's.

Status 04-07-15: Michael LaJuene will be retiring end of June. Michael suggested contacting Heather Hemdal, Director of Air Traffic Procedures in order to determine if the Master List of AIM OPR's is currently being maintained. Chris Criswell will contact Heather Hemdal to request that the Master List of AIM OPR's be posted on the Air Traffic Pubs website.  
**IOU OPEN.**

IOU: 1.Chris Criswell will provide an update concerning completeness of the Master List of AIM OPR's and publishing the AIM OPR list on the ATO Pubs website.

Status 07-07-15: Chris Criswell reported that he contacted the Air Traffic Procedures Group in order to determine if the Master List of AIM OPR's is currently being maintained. The last list provided to the AISWG by Michael LaJuene is the most current list. The Air Traffic Procedures Group does not plan to post the list on the Air Traffic Procedures website.  
**IOU OPEN.**

IOU: 1.Chris Criswell will provide an update publishing the AIM OPR list.

Status 10-05-15:

1. Val Watson will take over as POC until a new chair for the AISWG is established to ensure the AIM OPR list is published. **IOU Open.**

d. **12-089 (April 3, 2012): UAS Standards and Charting.** ISSUE: During discussion of Issue 12-085 (Activity Areas Data), Paul Eure stated that as UASs become more prevalent, the FAA must develop standards to accommodate these new aircraft. Paul stated that the En Route Service Unit is in the process of developing separation standards for UASs, but is having difficulty attempting to coordinate with the UAS office (AFS-80). Paul also briefed that six Unmanned Aircraft Systems (UAS) training and research areas are being established across the US. Paul asked who should be contacted to coordinate the charting and publication of these areas?

Status 04-03-12: New issue initiated by Paul Eure, AJE-31. During discussion of the NFDCs plan to database certain activity areas, Paul Eure stated that six UAS training and research areas are being established across the US, and asked what group should be contacted to coordinate charting and publication of these areas. Val Watson responded that coordination should go through the UAS Office (AFS-80). Paul responded that this office has been somewhat non-responsive to date, and added that En Route has been

trying to coordinate development of separation standards for UASs through this office with little success. Mike Foster added that the military services are working with FAA HQ on this issue as well. Paul responded that he was only referring to civilian UASs at this point. Chris Criswell responded that coordination should involve both the civilian and military UAS offices. George Bland stated that the military services are incorporating UASs into the NAS, not just at designated areas. Paul responded that the same process is happening on the civilian side, as it was mandated by Congress, which is why En Route is developing the separation standards, but that these research areas must also be included on the VFR charts once they are established. Lance Christian stated that the Las Vegas UAS Center for Excellence has a lot of experience with these activities and would be a good source of information. Paul responded that to implement these standards in six months as anticipated, they need a solution now. Val stated that AeroNav Products already has a specification available for charting these areas, but just needs the data. Chris added that the UAS Office is the authoritative source of this data, and that the NFDC relies on the authoritative source for publication and charting data. Greg Pray and Mike Foster volunteered to coordinate this issue through the civilian and military UAS offices, respectively.

IOU: 1) Paul Eure will report on the separation standards being developed by En Route, and provide more information on the six UAS research areas being established at the next AISWG meeting.

2) Greg Pray will contact a representative of the UAS office handling civilian UASs and invite them to the next AISWG meeting to provide more information.

3) Mike Foster will contact a representative of the UAS office handling military UASs and invite them to the next AISWG meeting to provide more information.

Status 07-10-12: The following status update of the three open IOUs from the last meeting was provided:

1. Paul Eure briefed that since AFS will not develop standards because no safety case has been made, En Route will attempt to reverse engineer standards from the recommendations of the safety panel. He stated that Congress has mandated that standards must be established by 2014. **IOU OPEN.**

2. Greg Pray contacted Mike Connor and invited him to the AISWG to brief the group. Mike C. briefed that Congress has set strict guidelines for developing procedures involving UASs, and that he will keep Greg updated on changes through the end of the year. Chris Criswell asked what groups in the FAA were handling the new guidelines regarding UASs. Mike C. responded that these were handled by AJV-115 along with AFS-407. Chris asked if there was any guidance on charting for UASs. Mike C. responded that there is no published guidance for submitting requests, but they must go through AJV-115. Brad Rush stated that only areas with continuous UAS activity should be charted to avoid chart clutter. Mike C. responded that he can work to establish the criteria for charting, but needs contacts to help. Brad responded that Val Watson should be the contact for charting, and that Chris Criswell should be the contact for data. Chris asked when guidance on UASs would be available. Mike C. responded that 7210 series notice was being developed to provide guidance to Air Traffic, but did not have a date for release. **IOU OPEN.**

3. During the discussion of item (2), Mike C. also provided information on UAS coordination with the military. Lance Christian asked if AJV-115 and AFS-407 were also coordinating with the military. Mike C. responded yes, they are coordinating with the DoD and NASA. Mike Foster responded that military COAs are going through the OE/AAA system. Mike C. agreed and added that outside of COAs, the military is going through AJV-115. Lance added that military UAS experts will need to be consulted for criteria, and Michael Clayton agreed. Mike F. responded that USAASA was representing the US Army on all UAS matters. Mike C. added that coordination on UAS matters has currently been handled through the DoD Policy Board on Federal Aviation (PBFA). George Bland responded that Col. Carl King (email: [carl.king@pentagon.af.mil](mailto:carl.king@pentagon.af.mil), phone: 202-385-4594) is involved with the PBFA and would serve a contact for military coordination. Val asked how many military UAS areas have been established. Mike F. responded that approximately 50-100 have come through the COA process. John DeMaria responded that to his knowledge there has only been one UAS area submitted for charting. Chris added that a majority of the existing areas fall within restricted airspace and therefore are not charted. **IOU OPEN.**

IOU: 1) Paul Eure report on the separation standards being developed by En Route at the next AISWG meeting.  
2) Chris Criswell and Val Watson will collaborate with Mike Connor to establish charting criteria for UASs and report progress at the next AISWG.  
3) Mike Connor will contact Col. Carl King to coordinate military UAS standards and report progress at the next AISWG. Mike Foster will confirm that USAASA is the US Army lead for UAS.

Status 10-02-12: The following status update of the three open IOUs from the last meeting was provided:

1. Paul Eure briefed that no progress has been made on defining separating standards for UAS. Paul Eure, Randy Willis and Brad Rush recommended that this issue be removed as an ASIWG issue. The group agreed. **IOU CLOSED.**
2. Mike Conner briefed that the UAS test sites have been postponed. Chris Criswell asked about the current symbology and notations used to mark UAS operations on charts. Mike Connor responded that current operations are conducted using a Certificate of Authorization (COA) and many operations are within existing restricted airspace. Valerie Watson asked if we could have someone from the UAS office involved with making a charting reference or symbol. Valerie Watson also indicated that the draft Order 7900.3 contains a process for submitting UAS charting requests. **IOU OPEN.**
3. Mike Connor introduced Randy Willis (AJV-115) as the POC for UAS operations. Randy Willis briefed that current UAS operations will continue to involve waivers and coordination between the Military and operators of airspace and airports. Randy said he will need to reevaluate the subject related of temporary vs. permanent UAS

operations and the difference between short and long term authorizations. Some “temporary” authorizations are over 2 years old. Current goal is to have integration with NAS in 2015. **IOU OPEN.**

- IOU: 1) Randy Willis will report back to the group on UAS authorizations.  
2) Chris Criswell will provide Mike Connor a copy of draft Order 7900.3.  
3) Mike Connor will report back on the status of developing charting criteria.

Status 01-08-13: The following status update of the three open IOUs from the last meeting was provided:

1. Mike Conner indicated that the UAS Authorizations are all handled through the COA process. **IOU OPEN.**
2. Chris Criswell indicated that when draft Order 7900.3 is ready he will distribute to the AISWG. **IOU OPEN.**
3. Mike Conner briefed that a draft Advisory Circular is being written that defines UAS charting standards. Mike will provide the draft AC to Chris Criswell who will distribute with the AISWG minutes. **IOU OPEN.**

- IOU: 1) Mike Connor will report back on any changes to UAS authorizations.  
2) Chris Criswell will distribute draft Order 7900.3 to the AISWG.  
3) Mike Connor will report back on the status of developing charting criteria.

Status 04-02-13: The following is a status update from the last AISWG.

1. Mike Connor stated that the FAA UAS Support Office (AJV-115) is working on an advisory circular which will provide guidance on how to submit UAS charting request and criteria for charting. Chris Criswell indicated that Order 7900.3 should be referenced with the advisory circular. **IOU OPEN.**
2. Chris Criswell reiterated that NFDC is targeting late summer or early fall for the final Order 7900.3 which will include a fillable pdf form for UAS data. **IOU OPEN.**

- IOU: 1) Mike Connor will report back on the development of the UAS advisory circular which includes guidance for the submission of UAS charting requests.  
2) Mike Connor will distribute the most recent draft of the UAS advisory circular.  
3) John Graybill will keep the group updated on the status of Order 7900.3 and the associated fillable pdf forms

Status 07-09-13: No status updates for were provided for the three open IOU's from the last AISWG. **IOU OPEN.**

- IOU: 1) Mike Connor will report back on the development of the UAS advisory circular which includes guidance for the submission of UAS charting requests.

- 2) Mike Connor will distribute the most recent draft of the UAS advisory circular.
- 3) John Graybill will keep the group updated on the status of Order 7900.3 and the associated fillable pdf forms.

Status 11-05-13: John Graybill updated the group on the progress of the 7900.3 and the fillable pdf forms which will be used to submit UAS areas. Mike Connor was not present to provide updates. **IOU OPEN.**

- IOU:
- 1) Mike Connor will report back on the development of the UAS advisory circular which includes guidance for the submission of UAS charting requests.
  - 2) Mike Connor will distribute the most recent draft of the UAS advisory circular.
  - 3) John Graybill will keep the group updated on the status of Order 7900.3 and the associated fillable pdf forms.

Status 01-07-14: John Graybill stated that no additional progress has been on the 7900.3 and the fillable pdf forms which will be used to submit UAS areas. Mike Connor was not present to provide updates. **IOU OPEN.**

- IOU:
- 1) Mike Connor will report back on the development of the UAS advisory circular which includes guidance for the submission of UAS charting requests.
  - 2) Mike Connor will distribute the most recent draft of the UAS advisory circular.
  - 3) John Graybill will keep the group updated on the status of Order 7900.3 and the associated fillable pdf forms.

\*NOTE: Mr. Scott Gardner will replace Mr. Mike Connor as the AISWG UAS POC.  
Scott Gardner, 202-267-8192, scott.gardner@faa.gov

Status 04-08-14: No updates were provided. John DeMaria took the action to contact Scott Gardner for a response to the IOU's. **IOU OPEN.**

- IOU:
- 1) Scott Gardner will report back on the development of the UAS advisory circular which includes guidance for the submission of UAS charting requests.
  - 2) Scott Gardner will distribute the most recent draft of the UAS advisory circular.
  - 3) John Graybill will keep the group updated on the status of Order 7900.3 and the associated fillable pdf forms.

Status 07-08-14: Scott Gardner requested that all new UAS charting requests to him. Corpus Christi TX has an example of UAS description. Scott Gardner will use the UAS Charting criteria AC developed by Mike Connor as a starting point for establishing policy for UAS charting. Jennifer Hendi and Tom Harris will gather existing published UAS charting information and send it to Scott Gardener to be vetted. **IOU OPEN.**

- IOU:
- 1) Scott Gardner will report back on the development of the UAS advisory circular which includes guidance for the submission of UAS charting requests.
  - 2) Jennifer Hendi and Tom Harris will provide the existing published UAS charting information and provide it to Scott Gardner.



Status 10-07-14: Scott Gardner was not present to provide an update on the draft UAS advisory circular.

IOU: 1) Scott Gardner will report back on the development of the UAS advisory circular which includes guidance for the submission of UAS charting requests.

Status 02-03-15: Scott Gardner has been replaced by Eric Lautenschlager. John Graybill provided an update that NFDC will coordinate with Eric Lautenschlager regarding what UAS data should be included in NASR and the process for submitting that data to NFDC

IOU: 1) John Graybill will report back on the status of adding UAS data to NASR. John will request that Eric Lautenschlager provide an update on the development of the UAS advisory circular which includes guidance for the submission of UAS charting requests.

Status 04-07-15: John Graybill reported that he met with Eric Lautenschlager. John stated that they are defining a shared vetting process for UAS charting provided an update that NFDC will coordinate with Eric Lautenschlager regarding what UAS data should be included in NASR and the process for submitting that data to NFDC.

IOU: 1) John Graybill will report back on the status of adding UAS data to NASR. John will request that Eric Lautenschlager provide an update on the development of the UAS advisory circular which includes guidance for the submission of UAS charting requests.

Status 07-07-15: John Graybill reported that requirements for storing Unmanned Aircraft Activity (UAA) area data in NASR were included in the Activity Area Resource specifications submitted to the NASR team in June. Currently, requests to chart UAA areas are submitted to Visual charting from the UAS office. Visual Charting creates a NFDD add-on page for the entry and then, subsequently, adds the symbol to the chart. Once NASR has been modified to store UAA data, NFDC will take over responsibility for accepting and publishing UAA data in the NFDD.

IOU: 1) John Graybill will report back on storing UAA data in NASR and the publication of UAA.

Status 10-05-15:

1. John Graybill and Langston Majette will work with the UAS office on finalizing the charting criteria. John will update the group on UAS incorporation into NASR.

**IOU Open.**

**\*Note:** Langston Majette now works in the FAA UAS office.

**e. 12-090 (July 10, 2012): UTC vs. Local Time for Aeronautical Data. ISSUE:** NFDC has highlighted an issue with the use of UTC and Local Time when distributing aeronautical data to the public. Proponents submit these data (e.g., Tower hours) to the NFDC in UTC time. NFDC converts the hours to local time for entry in the NASR database, and these data are distributed to the public via the subscriber files and online airport lookup. AeroNav Products converts these hours back to UTC time for inclusion in publications such as the A/FD. These differences can cause confusion to the aviation community, and also may cause issues if pilots don't properly convert from UTC to Local (e.g., if they don't account for daylight savings time).

Status 07-10-12: New issue initiated by Greg Pray, AJV-21. Greg briefed that the NFDC would like to publish all times in UTC time, with a few exceptions, such as those times published in the Federal Register. Val Watson asked why there would be exceptions, and asked if the group could recommend that all times in NASR be revised to UTC time instead of local time. Tom Harris responded that the Federal Register must be published in local time according to US law. Paul Eure added that the Federal Register is intended for use by the general public rather than aviators, which is why local time is preferred over UTC. Val then stated that AeroNav Products can convert UTC time to local where necessary for charting and publications. Deb Copeland responded that FAA charts and publications currently use a mix of local and UTC time, and that AeroNav Products should solicit input from industry at the next Aeronautical Charting Forum (ACF) before making any changes to the publications. Val agreed and asked if all times in NASR could be converted to UTC time and whether NASR could also database the UTC conversion factor for each location, referring to the "UTC-5(14DT)" information currently published in the A/FD but not in NASR. Greg responded yes, but that he was not sure of the amount of time and effort required for this request.

IOU: Greg Pray will research options for converting all times in NASR to UTC time and report the results to the group.

Status 10-02-12: Thomas Harris reported after the meeting that NFDC will change all local times to UTC and is exploring methods to notify users of the UTC change to the NFDD and NASR subscriber files. **IOU OPEN.**

IOU: Thomas Harris will report back to the group on converting local time to UTC within NASR.

Status 01-08-13: Thomas Harris reported that the conversion of local time to zulu within NASR will be implemented in two cycles. Tom also indicated that a lot of times within NASR are contained within "remarks" so it may not be possible to automatically update those times. The conversion of local time to zulu within NASR may take several cycle due to manual updates. Greg Pray briefed the group that the NASR subscriber file users will be notified of the time change via the Facility Aeronautical Data Distribution System (FADDS) user registration email list. **IOU OPEN.**

**IOU:** 1. Thomas Harris will report back to the group on converting local time to UTC within NASR.

Status 04-02-13: The following is a status update from the last AISWG.

1. Tom Harris reported that due to the federal register reporting airspace legal descriptions in local time NFDC cannot convert airspace descriptions within NASR to Zulu time. Tom also indicated that many of the local times stored within NASR are contained in free text which does not allow for global conversions. Lance Christian stated that the airspace legal description does not restrict conversion of times within a database. It was recommended the discussion of local time vs. zulu time be submitted to the ACF. **IOU OPEN.**

**IOU:** 1. Thomas Harris will report back to the group on the status of converting local time to UTC within NASR.

Status 07-09-13: The following is a status update from the last AISWG.

1. Tom Harris reported that he is researching the legality of publishing and disseminating airspace times in zulu due to the federal register reporting airspace legal descriptions in local time. Greg Pray stated that he will contact the ADM/NavLean project managers to find out how the authoritative sources will store times. **IOU OPEN.**

**IOU:** 1. Thomas Harris will report back to the group on the status of converting local time to UTC within NASR. 2. Greg Pray will report on the ADM/NavLean time requirements.

Status 11-05-13: The following is a status update from the last AISWG.

1. Tom Harris reported that currently the action is on hold due to the level of effort and resources required. **IOU OPEN.**
2. Greg prey was not present to update the AISWG. **IOU OPEN.**

**IOU:** 1. Thomas Harris will report back to the group with a plan of converting local time to UTC within NASR. 2. Greg Pray will report on the ADM/NavLean time requirements.

Status 04-08-14: Tom Harris reported that NFDC will begin converting times in NASR from Local to UTC. The conversion work will begin by May 2014.

Val Watson requested that NFDC provide an example NFDD and a memo notifying the AJV-3 Directorate of the time conversion process to issue the NFDD. Tom Harris committed to providing a memo to NFDC Manager, Grge Pray by April 11<sup>th</sup> 2014. **IOU OPEN.**

**IOU:** 1. Tom Harris will provide the memo sent from AJV-2 to AJV-3. 2. Tom Harris will provide a NFDD example to AJV-2 and NGA (Just Nahlik). 3. Tom Harris will provide an update on the NFDC to Local time to UTC conversion progress within NASR. 4. Val Watson will update the group on the status of the memo.

**Status 07-08-14:** Tom Harris reported that the memo from AJV-2 to AJV-3 has not been provided. The NFDC Airport Manager, Janet Myers is currently evaluating the requirements and should have a decision for next step by the next AISWG.

**IOU OPEN.**

**IOU:** 1. Tom Harris will report back on the decision by NFDC Airport Manager. 2. Tom Harris will provide a NFDD example to AJV-2 and NGA (Just Nahlik). 3. Tom Harris will provide an update on the NFDC to Local time to UTC conversion progress within NASR.

**Status 10-07-14:** Tom Harris reported that the memo from AJV-2 to AJV-3 has not been drafted. Greg Pray stated that AJV-2/3 still needs to make a decision if the NASR times should be changed from local to UTC. **IOU OPEN.**

**IOU:** 1. Tom Harris will report back on the decision by AJV-2/3 management.

**Status 02-03-15:** Tom Harris stated that Greg Pray will be submitting a memo to AJV-3 concerning the UTC time proposal. **IOU OPEN.**

**IOU:** 1. Tom Harris will report back on the outcome of the memo.

**Status 04-07-15:** Tom Harris did not have an update. **IOU OPEN.**

**IOU:** 1. Tom Harris will discuss with his management and report back on the outcome of the memo.

**Status 07-07-15:**

1. Tom Harris stated that Janet Myers is reviewing the memo which will implement the change. **IOU OPEN.**

**IOU:** Tom Harris will update the group on the outcome of the memo.

**Status 10-05-15:**

1. Tom Harris reported that the development of AirNav will resolve this issue. **IOU CLOSED.**

f. **12-093 (July 10, 2012): Joint Use Airports List.** **ISSUE:** The "Joint Use" airports list contained in the NASR database does not agree with the military "Joint Use"

airport list. AeroNav Products is requesting that the NASR database be updated with the correct "Joint Use" airports so that the Airport/Facility Directory (A/FD), which uses the NASR database as source, is published with the correct data. AIM is requesting that the Office of Airports update FAA Order 5000.5, LIST OF JOINT USE AIRPORTS, so that the NASR database can be updated.

Status 07-10-12: New issue initiated by Val Watson, AJV-3. Val briefed that NASR lists 100+ "Joint Use" airports, Order 5000.5 lists 24-30 "Joint Use" airports, an Office of Airports website ([http://www.faa.gov/airports/aip/military\\_airport\\_program/index.cfm?sect=joint](http://www.faa.gov/airports/aip/military_airport_program/index.cfm?sect=joint)) has a list, and asked which source of data is correct. Brad Rush added that the Office of Airports need to identify the single authoritative list, and publish this list in both the order and online. Bill Hammett responded that CFR Part 139 defines what constitutes a "Joint Use" airport, and added that in addition to the Office of Airports defining the list, that the definition in Order 8260.15 must be revised. Lance Christian agreed, stating that most of the military define a "Joint Use" airport as an airport with a "Joint Use" agreement, which is a smaller list of airports than those with both military and civil operations. Bill added that this definition does not match the one listed in CFR Part 139. Tom Schneider added that a joint meeting between the NFDC, Office of Airports, and DoD was held in October of 2011 to establish airport definitions, but that no progress from that meeting has been reported. Ray Zee stated that he will coordinate with the Office of Airports on this issue.

IOU: Ray Zee will research the definition for "Joint Use" airports and coordinate a standard definition and list of airports with the Office of Airports. He will report his progress to the group.

Status 10-02-12: Ray Zee provided an update prior to the meeting: He stated "We previously had several different definitions, but under the most recent re-authorization act it has been defined as "an airport owned by the Department of defense, at which both military and civilian aircraft make shared use of the airfield." The Planning and operations side of ARP have been notified and they will plan to evaluate the impact to their databases." Val Watson stated that Order 5000.5 needs to be updated. ARP is planning to update the Part 139 definition.

*Editors note: "Joint Use Airport" legally defined in 14 CFR, Part 139.5 as "Joint-use airport means an airport owned by the United States that leases a portion of the airport to a person operating an airport specified under § 139.1(a)".*

**IOU OPEN.**

IOU: Ray Zee will report on the progress of updating Part 139 and Order 5000.5 to the group.

Status 1-08-13: Ray Zee reported that there is a new definition for "Joint Use Airport" in the code of Federal Regulations based on the most recent Defense Authorization Act. The Office of Airports is identifying the airports that fall within this new definition. Ray is working to get clarification on the scope of the new definition. **IOU OPEN.**

IOU: Ray Zee will report on the progress of updating Part 139 and Order 5000.5 with the new "Joint Use Airport" definition released in the most recent Defense Authorization Act. Ray will provide a list of airports that fall within the definition.

Status 4-02-13: Ray Zee reported that based on the most recent definition 94 possible joint use airports have been identified. No other progress has been made on updating Part 139 and Order 5000.5 with the new "Joint Use Airport" definition. **IOU OPEN.**

IOU: Ray Zee will report on the progress of updating Part 139 and Order 5000.5 with the new "Joint Use Airport" definition released in the most recent Defense Authorization Act. Ray will provide a current list of airports that fall within the definition.

Status 7-09-13: No update was provided for the IOU. **IOU OPEN.**

IOU: Ray Zee will report on the progress of updating Part 139 and Order 5000.5 with the new "Joint Use Airport" definition released in the most recent Defense Authorization Act. Ray will provide a current list of airports that fall within the definition.

Status 11-05-13: Raymond Zee stated that the issue is that the DOD has a different definition than what is currently in 14 CFR, Part 139.5, which has created differences in the Joint Use Airport Lists. **IOU OPEN.**

IOU: Ray Zee will report on the progress of updating Part 139 and Order 5000.5 with the "Joint Use Airport" definition in 14 CFR, Part 139.5. Raymond will report back on the progress AAS-300 has made on finalizing a "Joint Use Airport" list.

Status 01-07-14: Raymond Zee reported that he has not made any progress on resolving the differences between the joint use definitions. **IOU OPEN.**

IOU: Ray Zee will report on the progress of updating Part 139 and Order 5000.5 with the "Joint Use Airport" definition in 14 CFR, Part 139.5. Raymond will report back on the progress AAS-300 has made on providing one joint use airport definition and finalizing a "Joint Use Airport" list.

\*Note: After the AISWG Meeting Mr. Raymond Zee submitted the following questions to Mr. Brian Rushforth, Manager of AAS-300.

For Airport data - How important is it for an airport to be determined as "joint use" or not? Are there any operational and practical considerations? Are there any considerations for procedure developers and maintainers? Does the new definition affect an update of Order 5000.5D - List of Joint -Use Airports?

Has AGC reviewed the new definition and does it affect language in current Joint Use Agreements between the airports and DoD?

Does this (the new definition) affect any current or future actions by the Policy Board on Federal Aviation (PBFA)?

Status 04-08-14: Raymond Zee updated the group that at present little progress has been made by The Office of Airports on resolving the differences between the civilian and military joint use definitions. Val Watson took the action to provide Ray with suggested text for the definition. **IOU OPEN.**

**IOU:** Raymond Zee will review the suggested text provided by Val Watson and will report back on the progress AAS-300 has made on providing one joint use airport definition.

Status 07-08-14: Raymond Zee provided three different options. Raymond stated that the Part 139 definition for Joint Use Airports will not change due to its purpose. The Part 139 Joint Use definition is aligned with federal grants for the Airport Improvement Program and not intended to be used for air traffic operational purposes. It was agreed that the Part 139 definition should remain unchanged, the definition in Order 5000.5 should be removed and the list within Order 5000.5 should be updated with the DOD airports that have joint-use agreements. The DOD list is straight forward – identifies joint-use which means civilian aircraft may use military airport. In NASR the FAA currently databases over 2000 joint-use airports. It was requested that the Office of Airports provide a memo stating that purpose of the Part 139 definition. Raymond Zee will prepare a memo the intent of the definition, including NASR data changes needed as a result of the new list. July 14 is target date for memo from Ray Zee. **IOU OPEN.**

**IOU:** 1. Raymond Zee will work with DOD on revising Order 5000.5. 2. Raymond Zee provide a memo describing the intent of the Part 139 definition and necessary NASR data changes to the Director of AJV-2/3.

Status 10-07-14: Raymond Zee reported that no progress has been made towards identifying those airports considered to be “joint use” based on any of the existing definitions. Raymond suggested using a different designation other than “joint use” because “joint use” suggests there is funding involved. Raymond Zee will continue to work towards a potential solution. **IOU OPEN.**

**IOU:** 1. Raymond Zee will report at the next AISWG on potential solutions.

Status 02-03-15: Drew Goldsmith has replaced Raymond Zee as The Office of Airports AISWG member. At this time Drew did not have an update. **IOU OPEN.**

**IOU:** 1. Drew Goldsmith will report at the next AISWG on potential solutions.

Status 04-07-15: Drew Goldsmith reported that the Office of Airports will be using the Part 139 definition when the new Airport Data and Information Program (AC19) is stood up in

October. Order 5000.5 should be recognized as out of date, and APP is aware of the need to update it. **IOU OPEN.**

**IOU: 1. Drew Goldsmith will report back at the next AISWG.**

Status 07-07-15: Drew Goldsmith reiterated The Office of Airports statement from the April 7, 2015 AISWG meeting. The Office of Airports will be using the Part 139 definition when the new Airport Data and Information Program (AC19) is stood up in October. Order 5000.5 should be recognized as out of date, and APP is aware of the need to update it. Charting should develop a definition that can be used to support their operational requirements. **IOU OPEN.**

**IOU: 1. Val Watson and Drew Goldsmith will report back at the next AISWG.**

Status 10-05-15:

1. No one from the Office of Airports was in attendance. **IOU OPEN.**

**g. 13-095 (January 8, 2013): Spaceports. ISSUE:** Spaceport America in New Mexico has been identified as a “private airport” (i.e. 90NM) which came about as the result of Spaceport America officials filling out and submitting 7460-1 form to report their new runway. Consequently, since this form is usually only used by “airports”, The Office Of Airports put Spaceport America into the 5010 database as an airport—an outcome not intended by Spaceport America. Spaceport America is currently stored in NASR as a pvt airport and charted on the Albuquerque Sectional as a pvt airport even though it is considered a spaceport. AST-100, Commercial Space Transportation has requested that Spaceport America be removed from NASR but remain charted with a unique symbol, labeled “spaceport” and a note referencing a corresponding “Special Notice” located in the A/FD.

- i. How should a standalone Spaceport be charted?
- ii. How do we database and chart a dual-use (airport/spaceport) facility?
- iii. Is an A/FD Spaceport Special Notice helpful?
- iv. Does a Spaceport need to be stored in NASR?
  1. What information is required?
- v. How does AST-100 coordinate launches with the controlling agency?

Status 01-08-13: Kelvin Coleman reported that Spaceport America (90NM) which sits within White Sands R-5111 has requested that the facility not be data based or charted as a “private airport” due to regulatory issues associated with an airport. Spaceport America is requesting that the facility be labeled as a spaceport on the sectional with a symbol dedicated to spaceport operations. Kelvin added that there are currently 8 total spaceports in the U.S. that should also be considered for charting. John DeMaria stated that once 90NM is removed from NASR then the visual charting group will replace the private airport symbol with a base landmark symbol and include the “spaceport” label. Adam Edmondson



stated that once the “Spaceport America” name is removed from the A/FD Special Notice his team will add the Special Notice to the back of the A/FD.

**IOU:** Kelvin Coleman will report on the progress to chart and database “Spaceport America” and the other 7 spaceports.

**Status 04-02-13:** Kelvin Coleman reported that Spaceport America (90NM) was removed from NASR and a landmark symbol with “Spaceport” text was placed on the sectional to represent Spaceport America. Kelvin is working with Adam Edmondson of AJV-2 on finalizing the A/FD Special Notice. Chris Criswell suggested that the “Spaceport” type should to be data based. **IOU OPEN.**

**IOU:** Kelvin Coleman will report on the progress to publish the A/FD Special Notice and database the “Spaceport” type within NASR.

**Status 07-09-13:** Kelvin Coleman was not available to provide an update to the open IOU. **IOU OPEN.**

**IOU:** Kelvin Coleman will report on the progress to publish the A/FD Special Notice and database the “Spaceport” type within NASR.

**Status 11-05-13:** Anna Cushman stated that the Commercial Space Transportation office is working on developing data and charting standards but they require SME’s from AJV-2 and AJV-3. It was recommended that a subgroup be formed to work Commercial Spaceport data and charting issues. **IOU OPEN.**

**IOU:** Anna Cushman will report back on the progress made within the Commercial Spaceport data and charting group.

**Status 01-07-14:** Anna Cushman updated the group on recent activities and meetings that included SME’s from both AJV-2 and AJV-3. The Spaceport Charting Working group had met twice since the last AISWG meeting. The first meeting centered on AVS issues regarding what was currently depicted on the VFR charts and AF/D. The second meeting centered on running through several options for integrating space launch activity into the database. Two options were discussed predominately: The first option entailed creating Spaceports/Space Activity as a subset of airports (e.g. like heliport, etc). However this option was rejected in favor of placing space launch activity under Special Use (e.g. like a parachute area)... As a result of this decision, John Graybill asked to be included in future discussions. **IOU OPEN.**

**IOU:** 1. Anna Cushman will report back on the progress made within the Commercial Spaceport data and charting group.

**Status 04-08-14:** Anna Cushman updated the group that she met with AFS-800 on establishing charting and database criteria. Anna has also been working with Steve Broman and Steve Brison on NASR database requirements and Rick Fecht on VFR

charting requirements. Anna believes that the database requirements for parachute jumping areas should work for the Commercial Space Launch Activity Area's. George Sempeles and Rafael Qesada from AOV asked if the Commercial Space database and charting requirements have gone through the SMS process. **IOU OPEN.**

**IOU:** 1. Anna Cushman will report back on the progress made within the Commercial Spaceport data and charting group. 2. Anna will work with George Sempeles and Rafael Qesada on the SMS Process for Commercial Space Launch Activity Area's.

Status 07-08-14: Anna Cushman responded to the AOV question concerning SMS compliance. Anna stated that 2004 guidance and process are already in place regarding coordination of spaceport activities with air traffic. George Sempeles will contact Julie Price, the AOV POC to the ATO.

Anna is finalizing a draft paper for spaceport data requirements and charting criteria. She is waiting for the associate administrator to approve within AST. Anna will continue to work with Val Watson of Aero Nav Products and Steve Brison, John Graybill, and Steve Broman of NFDC on finalizing the spaceport data requirements and charting criteria. **IOU OPEN.**

**IOU:** 1. Anna Cushman will report back on the progress made within the Commercial Spaceport data and charting working group.

Status 10-07-14: Anna Cushman reported that she discussed the SMS process with George Sempeles of AOV. The current process used by AST is meets SMS criteria. Anna will continue to work with Steve Brisbon, John Graybill and Mike Wallin on data requirements for NASR. Her management agrees with publishing commercial space launch information within the back portion of the A/FD. Valeria Watson requested that AJV-3 charting be included within the discussions. **IOU OPEN.**

**IOU:** 1. Anna Cushman will report back on the progress made within the Commercial Spaceport data and charting working group.

Status 02-03-15: Anna Cushman was unable to attend. John Graybill briefed that NFDC has continued discussions with her regarding data requirements for NASR. Anna has supplied NFDC with a spreadsheet of data regarding all Space Launch Activity areas. NFDC is reviewing the list to ensure that all required data will be captured in the new Miscellaneous Activity Area resource in NASR.

**IOU:** 1. Anna Cushman will report back on the progress made within the Commercial Spaceport data and charting working group.

Status 04-07-15: John Graybill briefed that NFDC has continued working data Space Launch Activity Areas requirements with Anna Cushman for NASR. The target date for adding this resource to NASR is late fall, 2015.

John Graybill stated that the Space Launch Activity Area information will be disseminated as a NFDD add-on page.

Val Watson stated that she will submit any charting specification changes to the IACC MPOC.

Lynette Jamison expressed concern that the space launch NOTAMs may not follow the NOTAM Order 7930 format. Anna stated that 9 of the 11 spaceports should comply with the format.

**IOU:** 1) Anna Cushman and John Graybill will report back on the progress made NASR Space Launch Activity Area requirements. 2) Val Watson will report back on charting specification changes.

**Status 07-07-15:** John Graybill briefed that requirements for storing Space Launch Activity (SLA) areas in NASR were included in the Activity Area Resource specifications submitted to the NASR team in June.

**UPDATE:** Following the AISWG meeting, a group with representatives from Visual Charting, the Airport Survey and Mapping Team, Governance & Standards, Aero Data & Charting, NFDC, and Commercial Space Transportation met to finalize requirements for publication of SLA Areas in the NFDD. The SLA areas were subsequently published as an add-on page in NFDD 150, dated 8/5/2015. They will appear in the Special Notices section of the A/FDs and Supplements effective 15 October 2015. A remark will also be published in each airport associated, or nearby to, an SLA stating "Space Launch Activity Area – See Special Notices".

**IOU:** 1) Anna Cushman and John Graybill will report back on the publication of Space Launch Activity Areas.

**Status 10-05-15:**

1. Space Launch Activity Areas have been published. AISWG Members agreed to close the issue. **IOU CLOSED.**

**h. 13-098 (April 2, 2013): Stand Alone DME. ISSUE:** Stand-alone DME's will begin operating as a new type of NAVAID within the NAS in support of RNAV operations using airborne FMS systems. Currently there are stand-alone DME's operating where the VOR portion of the VOR/DME turned off. The VOR component is NOTAM'd OTS.

**Status 04-02-13:** Mr. Victor Nazari presented the issue to the group. Victor informed the group that there currently a stand-alone DME work group that has been formed to resolve data and charting issues. **IOU OPEN.**

**IOU:** Victor Nazari will provide an update and schedule for commissioning stand-alone DME's.

**Status 07-09-13:** Mr. Victor Nazari briefed that there are still on-going effort to identify database and charting requirements for stand-alone DME's. **IOU OPEN.**

**IOU:** Victor Nazari will provide an update and schedule for commissioning stand-alone DME's and any significant requirement changes.

**Status 11-05-13:** Victor Nazari briefed that NASR and NFDD requirements are being finalized. **IOU OPEN.**

**IOU:** Victor Nazari will provide NASR screen shot examples and NFDD examples. Val Watson will distribute the charting requirements.

**Status 01-07-14:** Rick Funkhouser is now the POC for data basing Standalone DME's in NASR. Ms. Val Watson advised that a Requirements Document will be submitted to the IACC MPOC to update the charting specifications. **IOU OPEN.**

**IOU:** 1. Rick Funkhouser will provide NASR screen shot examples and NFDD examples. 2. Val Watson will distribute the charting requirements at the next AISWG.

**Status 04-08-14:** Rick Funkhouser was not present to update the group on data basing Standalone DME's in NASR. Ms. Val Watson advised that a Requirements Document has been submitted to the IACC MPOC to update the charting specifications and the issue is also being discussed within the Aeronautical Charting Forum. **IOU OPEN.**

**IOU:** 1. Rick Funkhouser will provide NASR screen shot examples and NFDD examples. 2. Val Watson will distribute the charting requirements at the next AISWG.

**Status 07-08-14:** Rick Funkhouser briefed on the progress of Order 7900.2 and the form which will support the collection of Standalone data. NASR is ready to support the collection and distribution of the standalone DME. The digital form will support DME w/o having to designate MagVar. Jennifer Hendi stated that more questions need to be answered about the charting specs, before an IACC requirements document can be submitted. "Do Standalone DME's even need to be charted?" Val Watson and Jennifer Hendi will continue to work the charting requirements for Aero Nav Products. Rick Funkhouser Order 7900.2 and associated forms will be signed by Lynn Ray to week of July 21<sup>st</sup> and will be made available to the AISWG at that time.

**IOU OPEN.**

**IOU:** 1. Rick Funkhouser will provide NASR screen shot examples and NFDD examples. 2. Val Watson will update the group on the charting requirements at the next AISWG.

Status 10-07-14: Valerie Watson is seeking additional guidance from the Aeronautical Charting Forum (ACF) before proceeding with changes to charting standards.

**IOU OPEN.**

IOU: 1. Val Watson will update the group on the charting requirements at the next AISWG.

Status 02-03-15: Valerie Watson reported that a Stand Alone DME working group has been formed. The next meeting is February 10, 2015. Val Watson and Steve Broman will be representing AJV-2/3.

**IOU OPEN.**

IOU: 1. Val Watson will update the group on the outcome of the Stand Alone DME working group.

Status 04-07-15: Valerie Watson reported that the Stand Alone DME working group has been meeting. Dale Courtney will be presenting on Stand Alone DME's at the April Aeronautical Charting Forum.

**IOU OPEN.**

IOU: 1. Val Watson will update the group on the outcome of the Stand Alone DME working group and ACF presentation.

Status 07-07-15: Valerie Watson reported that a follow-up Stand Alone DME working group meeting has not been held.

**IOU OPEN.**

IOU: 1. Val Watson will follow-up with Dale Courtney on the next Stand Alone DME working group.

Status 10-05-15:

1. DME requirements for publication & charting are being worked in other arenas – ACF and IACC. AISWG Members agreed to close the issue. **IOU CLOSED.**

**i. 14-099 (April 8, 2014): Standardize Elevations to NAVD88.** ISSUE: Mr. Rick Fecht of Aeronautical Navigation Products (AJV-2) presented the issue. Airport elevation values appear to be charted from various datum, unknown to the user. NASR contains and publishes elevations in several or unspecified datum(s): NGVD29, EGM96, NAVD88 and NULL values. The AIM Obstacle Repository System (ORS) obstruction database is converting elevations from NGVD29 to NAVD88 within the conterminous US. Visual charting will publish obstruction MSL heights based on the ORS database NAVD88 datum. Terrain spot elevations will also be migrated to the same NAVD88 datum as well. Since elevations are captured within the database to a tenth of a foot and charted to the foot, it would appear to be both ours and our users interests if we identify or standardize the

elevations to one datum. Separate datum can influence the elevation values on the order of two meters. Observation is that NASR airport/runway elevations have the option for several specified or NULL datum while NAVAID and ILS equipment elevation datum are not identified.

Status 04-08-14: Raymond Zee took the action to contact GCR and leverage the 5010 program to convert the NGVD 29 private airports to NAVD 88. **IOU OPEN.**

IOU: 1. Raymond Zee will report back on GCR NAVD conversions.

Status 07-08-14: Raymond Zee said that utilizing the GCR contract to convert the datums is out of scope for the GCR contract. Raymond said that at the point Airports GIS migrates over NASR airport data there are plans to convert all the airport datums to NAD 83/NAVD88. **IOU OPEN.**

IOU: 1. Raymond Zee will report back on time frames for the data migration from NASR to Airports GIS.

Status 10-07-14: Raymond Zee stated that the Nav Lean team plans on having the conversion capability completed by September 2015 **IOU OPEN.**

IOU: 1. Raymond Zee will report back on additional details from the Nav Lean team.

Status 02-03-15: Drew Goldsmith has replaced Raymond Zee as The Office of Airports AISWG member. At this time Drew did not have an update. **IOU OPEN.**

IOU: 1. Drew Goldsmith will report at the next AISWG on potential solutions

Status 04-07-15: In order to determine the amount of non-NAVD88 airport elevations John Johnson will request Doug Sage provide a report for all NASR airport feature elevations that are not NAVD88. The report will be used to determine the variety of datums currently in NASR. **IOU OPEN.**

IOU: 1. John Johnson will provide the report to the group

Status 07-07-15: John Johnson was not present to update the group. **IOU OPEN.**

IOU: 1. John Johnson will provide the report to the group

Status 10-05-15:

1. It was reported that AirNav will resolve the issue. AISWG Members agreed to close the issue. **IOU CLOSED.**

**j. 15-103 (July 7, 2015): DOD UAS Charts. ISSUE:** Active Duty Army Warrant Officer Mr. Burrows presented on the topic of Unmanned Aircraft System instrument procedures

and charts. Currently the Army is developing flight procedures for DOD UAS operations. UAS departures, arrivals and approach charts are all being developed for use by DOD UAS. The first test of the UAS instrument procedures will be at Cannon AFB, New Mexico. Mr. Burrows wants to engage the FAA UAS Office as soon as possible to avoid any duplication in effort.

Status 07-07-15: Eric Lautenschlager of AFS-80 will discuss the effort with Mr. Burrows and report back at the next AISWG. **IOU OPEN.**

Status 10-05-15:

1. Mark Burrows will contact Eric Lautenschlager and work the issue outside of the AISWG. **IOU CLOSED.**

**k. 15-104 (July 7, 2015): DOD Submission of Departures.** Issue: DOD submission of Departures on Change Notice Cycle must be 56 day cycle procedures to coincide with enroute.

Status 10-05-15:

1. Justin Nahlik took issue to the DATWG. The issue was addressed at the DATWG and should not happen again. **IOU CLOSED.**

**l. 15-105 (July 7, 2015): Airway Altitudes shown as Feet (FT) or Flight Level (FL).** Issue: NASR has a discrepancy in how Flight Level Airway Altitudes below 18,000 are data based.

Status 10-05-15:

1. Scott Jerdan will report back at the next AISWG. **IOU Open**

**m. 15-106 (July 7, 2015): AFS-460 Approving 3<sup>rd</sup> Party Procedures.** Issue: 3<sup>rd</sup> Party Procedures that do not have an Airport Ident in the system are being approved by AFS-460.

Status 10-05-15:

1. The procedures are being approved because they are point in space. Tom Harris believes they are private airports and report back at the next meeting. **IOU Open**

**3. New Business:**

This will be Chris Criswell's last meeting as the AISWG Chair.

**4. Next Meeting:** The meeting will be held at AeroNav Products in Silver Spring, MD with VTC from AeroNav Products in Oklahoma City, OK on Tuesday, **January 5, 2016**. Start time is 9:00 AM and dress is business casual.