

**DRAFT AIR TRAFFIC PROCEDURES ADVISORY COMMITTEE
(ATPAC)**

SUBJECT: Minutes of the ATPAC 143th Meeting

SUMMARY: The 143th meeting of ATPAC was held on Feb 7-8, 2012, at FAA FOB10A, Washington DC. Representatives were present from FAA, NATCA, ALPA, PWC, IPA, U.S. Navy, U.S. ARMY, AOPA, UAL, and NASA.

The meeting was called to order by the Chairperson, at 9:00 a.m. on Tuesday, February 7, 2012.

Recurring Agenda Items, IOUs, and applicable AOCs were reviewed and discussed; and the next meeting date and location were established. All business finished, the meeting was adjourned at 1:00 PM on February 8, 2012.

AGENDA:

- Call to Order/Roll Call
- Recognition of Attendees
- Executive Director' s Report
- Chair Report
- Call for Safety Items
- Review of Agenda Items, Recurring Agenda items
- Introduction of New AOCs/Miscellaneous
- IOUs, Status updates to Areas of concern, (AOCs)
- Locations/Dates for Future Meetings
- Adjournment

TUESDAY, February 7, 2012

CALL TO ORDER/ROLL CALL: The Chairperson called the meeting to order at 9:00 a.m. The Chairperson introduced herself and conducted introductions around the room.

RECONGITION OF ATTENDEES: 31

Gary Norek, Acting Executive Director
Danny Aguerre, ATPAC Chair, NATCA
Jay Garver, FAA, AJV-11
Jeff Titsworth, ANG-C42
Ashley Hoff, NG-C42
Marc Gittleman, ALPA
Scott Casoni, AJS-22
Patricia Bynum, PWC
Robert Law, AJT-24
Mark Cato, ALPA
Tony Corpus, USN
Philip Saenger, AFS-410
Harvey Hartmann, NASA, ASRS
Glenn Morse, UAL
Jeff Woods, NATCA, Terminal
Melissa Martin, AOPA
Tom Kramer, AOPA
John Collins, Bonanza Assoc.

Valerie Setzer, AJT-2B1
Scott Swain, OPNAV
Doug Thoman, IPA
Sydney Tutein, USA
Alan Twigg, UAL
Mike Hilbert, AJV-14
John Dutton, AJV-14
Wesley Bomyea, OPNAV
Dan Barlett, NTSB
Phillip Russ, AJS-51
Byron Hull, AJS-51
Herb King, AJT-23
Mike Meigs, AJS-4NM
Cyndi Deyoe, JVS, AJV-11

EXECUTIVE DIRECTOR'S REPORT: The Executive Director presented his report. There is 1 safety item, the PHL Waiver, 10 AOCs deferred for publication and 5 Open AOCs.

FAA funding extension was approved by Congress on January 26th and signed into law by President Obama. The passage of this bill gives Congress until February 17 to come to an agreement on a long-term plan. This is the 23rd such extension since 2007 they are optimistic that negotiations result in multi-year agreement to fund FAA. Other issues discussed were:

- New Safety Orders which will transform how the ATO reports and analyzes potential safety occurrences go into effect Jan. 30, marking a significant step in the ATO's ongoing transformation of its safety culture. The orders are designed to follow the core principles of the Safety Management System, which integrates safety-related operational processes, procedures, policies and programs;
- FAA Re-organization to include new UAS office;
- Class B's SEA, PHL and ATL;
- Engine Out Regulations Update on proposed changes -AGC issuing a public notice;
- Class E Airspace re-categorization effort;
- Helicopter LAX BASIN TAC Hybrid Chart; discussion of North and South Shore
- ATPAC Order Renewal approved through FAA going to DOT; and
- RNAV/RNP "Climb VIA/Descend VIA" – NAV CANADA difference.

APPROVAL OF MEETING #142 MINUTES: The minutes from Meeting #142 were completed approximately 1 week after the close of the meeting, sent out for comment and approved following the new process.

CHAIR REPORT: No updates from GAO on final decision regarding the continuance of ATPAC, should have definitive word by next spring. Partnership for Safety (PFS) was very successful with over 900 attendees. PFS will be going down to facility and service center level with one person from management and one NATCA member for each facility and service center. All groups will report to one website and be able to share and communicate on issues. Kim Cardosi reports on problems occurring with 4 digit express carrier call signs. Danny will keep ATPAC advised.

CALL FOR SAFETY ITEMS: No new items.

SAFETY ITEM: PHL Waiver Scott Casoni, AJS reported that Terminal was addressing this issue with a FAA WG to address over-arching issues to Class B airspace. Valerie Setzar is the lead on this for Terminal. Valerie stated first internal FAA meeting would be 2/22-23/2012. Safety and Terminal will update ATPAC on meeting outcome. Doug Thoman, IPA and ALPA discussed once information is published in Airport Facility Directive it is not really briefed unless initial airport. Maybe Flight standards should look at a SAFO for this? Rulemaking for Class B airspace changes should be complete by the end of April. Request was made of Harvey Hartman for data pertaining to Class B airspace incidents. Motion was made by NATCA to move PHL Waiver issue to reoccurring agenda and was seconded by ALPA.

OTHER ITEMS: None

RECURRING AGENDA ITEMS:

Wake Turbulence (Jeffrey Tittsworth): Jeff attend ATPAC meeting and address questions from ATPAC on the categories, benefits and Phase 1 start date. 95% of changes that need to be made to JO 7110.65 are complete. Estimate changes being sent to Safety in April 2012 and AOV in August of 2012. Estimating a 7% capacity increase in Europe and 5% capacity increase in US due to changes. Currently looking at Memphis to field test

new standards when they are ready for implementation. Question was also raised by NATCA reference wake remnant. Jeff provide paper attached to minutes.

ATPAC #143 Status Update: Wake Turbulence Update

The Wake Turbulence Program's focus is safely improving capacity in the NAS. The program is built around three solution sets. The first set is procedural changes only, with some of the changes requiring a controller display aid. These changes would be allowed where measured data could be used to build the safety case to simply change air traffic operational procedures, without the need of new meteorological sensors or other technology based solutions. Second will be procedural changes built upon the data that continues to be collected and adding in specific meteorological conditions and simple technology solutions. Third will be the most complex solutions requiring significant meteorological and or technology inputs to achieve the additional capacity.

1st Solution Set – 7110.308 - The Wake Turbulence Program along with the Terminal Services Unit developed and, received regulatory approval of a rule change, to allow simultaneous dependent staggered 1.5nm ILS approaches to runways separated by less than 2500 feet. There were 5 airports initially approved for the procedure: SEA (34C/L, 16C/R), CLE, STL, PHL, and BOS. Three more were added: EWR, MEM and SEA (34C/R, 16C/L). Discussions with EWR, TRACON, Continental and airport have resulted in a modification to the lead/trail runways for 7110.308 and the additional approval process needed for the required 3.1 degree glide slope on 4L and 2.95 degree glide slope on 4R. Based on Aviation Stakeholder input, the ATO began a Task Force to focus on SFO. Based on a request by NCT, an analysis has been completed for a leader/follower runway pair with a 2.85 degree glide slope for 28L as the leader runway. EWR and SFO are beginning to work through the environmental/noise issues as well as the Procedure Review Board for the modification from the standard 3.0 degree glide slope.

2nd Solution Set – WTMD (Wake Turbulence Mitigation for Departures) WTMD, another Closely Spaced Parallel Runways (CSPR) project incorporates existing meteorological data and a simple technology solution to achieve additional departure capacity at 10 departure capacity constrained airports. A WTMD Operational Demonstration Prototype system is being developed by AJT-14 (Terminal field Operational Support) for 1 year operational trails at IAH, MEM and SFO. WTMD use by IAH was scheduled to begin in the 2nd quarter of CY2011, with MEM and SFO starting at six month intervals following IAH. After the 1 year trails, a decision will be made whether to continue fielding the WTMD capability. While delays have occurred, IAH is close to implementation. The WTMD installation is almost completed, with the ATCT displays to be installed upon AOV approval of WTMD. The Flight Standards review of WTMD Safety Risk Management Document (SRMD) is completed. AOV approval may take up another 45 days, potentially pushing implementation to March or April 2012.

2nd Solution Set – WTMA (Wake Turbulence Mitigation for Arrivals) is another project being developed in the 2nd Solution Set. The project is collecting data and developing the concept definition for WTMA. This effort expands on the procedures-only solutions to include more types of aircraft and the number of CSPRs that can realize increased arrival capacity in less than visual conditions. This project expands on the technology and meteorological data used by WTMD to address the longer planning horizons and larger airspace with reduced separation that is necessary for the arrival solution. During CY10, the Automated Terminal Proximity Alert (ATPA) capability was expanded using prototype coding to address controller situational awareness needs for dependent instrument approaches to CSPR. ATPA will likely be the controller decision support tool to be used in connection with WTMA arrival operations.

3rd Solution Set - Additionally the Wake Turbulence program is supporting a R&D project for single runway departures called CREDOS (Crosswind-Reduced Separation for Departure Operations) with the European community. CREDOS involve longer term research and development activities. Also included in this third

set is a single runway arrival solution. European development continues with safety and benefit assessments being developed.

RECAT The Wake Re-categorization project (RECAT) is an international effort undertaking a re-categorization of current wake categories. This is a multi-phased effort which is seeking capacity gains in each phase and has application in all three solution sets. A matrix of the new categories was delivered to ICAO and then briefed in November 2010 to a wake standards working group formed by ICAO. Subsequent meetings with the ICAO wake standards working group have worked to resolve safety case questions and clarify documentation. The work group focus has changed over time to a more European centric and no longer represents a joint FAA/EUROCONTROL effort to harmonize standards. In addition, there is an effort to tie RECAT Phase I to the International effort of modifying the separation standards for the Airbus A380. A representative of Airbus sits on the working group and it has become evident that the Airbus agenda is affecting the agenda of the ICAO WTSG. As a result, the FAA was forced to withdraw the RECAT proposal to ICAO and is currently working to implement the RECAT proposal in the US. It is hoped that this lead-by-example effort will provide the impetus for the work group to refocus, and early indications are that the work group will now look toward working with the FAA on RECAT Phase II. The FAA is pursuing the internal process for approval and has drafted an SRMD and is developing proposed procedure changes to support the Re-categorization proposal within the FAA. The package of procedure changes and SRMD are scheduled to be delivered to AOV in August 2012.

Aircraft Standards During CY2010, the FAA approved and implemented a revision to its current wake separation standards that places all Boeing 757 aircraft in the same wake separation category. Work is continuing by international groups in reviewing the wake separations associated with the Airbus 380 and in developing the wake separations to be associated with the new Boeing 747-8 series aircraft. During 1st quarter CY2011, the Wake Program, working with AVS, Boeing, and ATO-Terminal developed a Safety Risk Management Document (SRMD) for the introduction of the new B787 series 8 and 9 aircraft into commercial service. The B787 has been undergoing flight test and is scheduled for EIS in late CY2011. The SRMD was processed through the system and the separation standard was placed into the 7110.65 for use by Air Traffic.

During the 3rd quarter in CY2011, the Wake Program, working with Boeing, AVS, EASA and EUROCONTROL, completed analysis of the back to back flight test data of the B747-8 and B747-400 collected in Fresno, CA late last year. The FAA supported Boeing's completion and delivery of their B747-8 Safety Case to ICAO and supported the recommendation that the aircraft be categorized as a Heavy. ICAO accepted the recommendation and the ICAO state letter and FAA Notice for interim standards for the B747-8 were withdrawn. The completion of the B747-8 Safety Assessment Report is expected in February 2012 and will close out this effort.

- **Runway Safety (Scott Casoni): Runway Safety Call-to-Action Recommendations:**

Recommendation A-00-71: : Amend Federal Aviation Administration Order 7110.65, "Air Traffic Control," to require the use of standard International Civil Aviation Organization phraseology (excluding conditional phraseology) for airport surface operations, and periodically emphasize to controllers the need to use this phraseology and to speak at reasonable rates when communicating with all flight crews, especially those whose primary language is not English.

Response: We believe the FAA has effectively addressed this safety recommendation and requested closure.

NTSB Safety Recommendation A-00-070: Adopt the landing clearance procedure recommended by International Civil Aviation Organization Document 4444-RAC/501, "Procedures for Air Navigation Services-Rules of the Air and Air Traffic Services," Part V, "Aerodrome Control Service," paragraph 15.2. Neither MITRE or the FAA support requested changes.

Response: FAA requested closure on this recommendation.

- **AOC-126-2 Procedures for Use of Time to Climb/Meet Restrictions.** D. Boone contacted Gary Norek and requested all AJV and ATPAC historical records. He stated he was directing Miter to do a study and collect data for a new Safety Panel to review DCP. ATPAC Chair stated she would contact D. Boone at end of month to get status.
- **AOC 123-7 Four Digit Express Carrier Call Signs**- Kim Cardousi reported to ATPAC chair issues continue. ATPAC chair stated issue discussed at PFS. She will get a full report for ATPAC #144.
- **AOC 123-2 Aircraft Vertical Performance Data – (AJV-11 -J Garver)** Status: It appears that the database will be hosted by the NASE in NJ. They are completing a technical refresh on their website and hope to have it completed by November. ATPAC #143 Status Update: Technology refresh was moved back since FAA reorganization NASE may not be able to host.
- **AOC 102-2 Instrument Approach Clearances to Other than IAF**
Status: Part 1 – AJT is heading up the Approach Clearance Update ATPAC #141 Moved to reoccurring agenda. (Mike Hilbert/John Dutton) Status Update: 7110.65U due out Feb 2012 deferred. Robert James Law ATPAC #143 Status Update Kevin Martin and Gary Fiske have been working with AOV on 102-2 should be published by 2/2013.
Status: Part 2 & Part 3 – The issue is with the statement in the example that states ATC must say "Cleared for straight in" if ATC does not want aircraft to do a hold in lieu of procedure turn. This was only listed in an example and is now in the paragraph and the example. Part 2 & 3 **closed ATPAC #141.**

New AOC's:

ALPA submitted AOC 143-1 Use of 'Descend Via [STAR] and maintain [altitude]' phraseology in Nav Canada Bulletin.

Nav Canada issued an ATC Information Bulletin on the important North American differences regarding SID and STAR altitude restrictions for new Canadian procedures that are to go into effect 9 February 2012. In the bulletin NAV Canada provides several exemplar clearances with their associated requirements. The area of concern is the second FAA example shown below: DESCEND VIA {STAR designator} AND MAINTAIN\ altitudes

ALPA's concern is that this phraseology is not discussed in the .65 or the AIM and in ALPA's opinion is incorrect/ misleading. First, we believe that the above phraseology does not conform to any of the 'descend via' examples in the .65 or the AIM. Secondly, since the introduction of the 'descend via' clearance pilots have been trained that when issued a 'descend via' clearance that they must comply with all restrictions of the STAR, unless issued an 'except' to that clearance. ALPA believes that the introduction of this bulletin may generate confusion among pilots and controllers. Even in the FAA's Mandatory Briefing Item 12-01, the FAA states that "if ATC assigns an altitude to the aircraft following a STAR, whether or not "DESCEND VIA" has been issued, any published altitude restrictions are cancelled unless reissued by ATC." This is not in line with the example of 'descend via' in the .65 or the AIM.

Some issues associated with this practice are:

1. If the 'descend via [STAR] and maintain [altitude]' is used, controllers can expect pilots who have not seen the bulletin to comply with the restrictions on the STAR until reaching the assigned altitude.
2. If the 'descend via [STAR] and maintain [altitude]' is used, controllers can expect pilots who have seen the bulletin to descend unrestricted to the assigned altitude.

SUGGESTED ATPAC ACTION: Discuss the subject and present a draft definition to the FAA for coordination.

1. Ensure the phraseology contained in the example above is not used by controllers.
2. Reinforce to controllers that if there is no need for a pilot to comply with the altitudes on a STAR that the clearance should just be a 'descend and maintain' clearance.

Discussion: FAA contends that this was not written by FAA and not in accordance with FAA directives. Nav Canada mistake, however other ATPAC members, NATCA and ALPA contended that CPCs may use this phraseology in error and need to be trained on new phraseology. ALPA moved to accept AOC and was seconded by NATCA.

AOCs Reviewed:

- **AOC 141-1 Runway Guard Lights (RGL)** Doug Thoman, IPA presented new AOC. Bruce McGray, AFS-410 spoke of the inconsistent use of equipment. ATPAC # 143 Status Update: Marc Gittleman met with IAD did not find any issues with airport markings. Harvey Hartmann checked data base for any write up on airport markings (see attached). Bruce McGray checked FSDO database and found no reports. IPA stated still issue at SDF. Doug Thoman again brought up SDF issue, Gary Norek said he would take an action item on this. Bruce McGray discussed some other issues such as Detroit re-wiring. Some 80 plus airports have issues with inconsistent markings.

Guests from Runway Safety WG Herb Kind and Meigs discussed focus of their group. Stated some Terminals have very well written SOPs regarding control instructions and they hope to get all airports to follow this standard. But may only be a short term fix. Bruce McGray stated old rules for training of pilots, ' you never cross double yellow line and you never cross a red line ever ' without clearance. Now aircraft are disregarding this rule because of the new airport markings.

Dan Bartlett, NTSB, discussed Professional Communication via Phraseology training for pilots and CPCs. NTSB may want to turn this into a mandate to FAA. ALPA and NATCA welcomes NTSB recommendations use of slang and non-acknowledgment by pilots with call sign is a problem in the NAS. NATCA stated CPCs go through multiple over the shoulders and tape talks on phraseology. Dan state NTSB looking for NAS wide solution. DoD and ATPAC factions stated they also have reoccurring training on phraseology. NTSB stated IATA would like to be involved because of the confusion to international pilots.

Wednesday February 8, 2012

- **AOC 116-3 - Glide Slope Critical Area Advisory** Action: Group of PDG to look through AOC, consolidate all the recommendations and come up with changes for 7110.65, AIM and AIP to run by ATPAC. Status: ATPAC #143 116-3, I sent the draft DCPs to distribute among the ATPAC members. Robert James Law no feedback from ATPAC members. DEFERRED ATPAC #145 Pub 2/2013
- **AOC 141-2 Cancellation of Takeoff Clearance “Phraseology”** During a recent data search for information regarding “ Rejected Take-off” reports identifying user confusion with the subject phraseology surfaced. 7110.65 para 3-9-10. A draft definition to be written and presented to FAA for coordination. Status: Members to ask their constituents about issue. Call sign “ Abort, Abort, Abort “ , “ Safety Alert” ,” Stop Immediately” . Recommendation: Needs a sense of emergency with that phraseology. Look in 7110.65 “ Abort” phraseology history and reason it was changed, Use ICAO Phraseology, Contact Wilson, ALPHA, AOPA for member thoughts? ATPAC #143 All research completed and provided to ATPAC members in pre-read. Decision was human factors should solve this issue if it can be addressed. Moved by ALPA and seconded by NATCA **ATPAC #143 AOC CLOSED.**
- **AOC 123-6 Precision Obstacle Free Zone** (Terminal)
Status: Terminal Recommend Closure #140. Bruce McGray Updated – See Pre-read AFS supports closure. - Vote on closure. NATCA AOPA second AOC 123-6 **ATPAC #143 AOC CLOSED.**
- Call to Order
- Recognition of Attendees

Deferred AOC's

1. **AOC 116-3 - Glide Slope Critical Area Advisory**
Action: Group of PDG to look through AOC, consolidate all the recommendations and come up with changes for 7110.65, AIM and AIP to run by ATPAC.
Status: ATPAC #143 116-3, I sent the draft DCPs to distribute among the ATPAC members. Robert James Law no feedback from ATPAC members. DEFERRED ATPAC #145 Pub 2/2013. Robert James Law email sent out requesting input on all DCPs. **Deferred to ATPAC #145 2/2013**
2. **AIRPORT NAVAID Naming Protocol (OSG)**
Status: Deferred to ATPAC #143 **Published Feb 2012.** Regina Riddle **ATPAC #143 2/2012 Published CLOSED**
3. **AOC 136-1 Ambiguity on pilot actions during windshear conditions**
Action: DCP's to address pilot/controller action on encountering a windshear condition. (Bob Law)
Status Update: This notice and DCP is final. The notice is out on the FAA website and has been for quite awhile. **Published in 7110.65 T.** **Action:** Terminal will put out a mandatory briefing item (MBI) memo for the interim. (Bob Law) Status Update: Terminal looked quickly through the case files for TSOS (AJT-24) and cannot find an MBI that we issued for AOC 136-1. (Gary Norek) Would it still be required seeing the notice/DCP is now available to controllers? Flight Standards need to ensure that airlines use the agreed upon phraseology. ATPAC requests training for CPCs. AOC 136-1 Ambiguity on pilot actions during windshear conditions - Bob Law reopen need for MBI request. AOC 136-1 Ambiguity on pilot actions during windshear conditions - AFS Bruce – need SAFO AFS-200 out to all airlines on windshear. AOC 136-1 MAPCOG see if can work to harmonize with ICAO, AIM & AIP. AOC 136-1 Marc Gillman statement to for pilot's training. ATB Windshear article to be completed. (Gary Norek). **ATPAC #143 Published in Feb 2012 ATB CLOSED**

5. **AOC 125-4 – Confusion on Descent during Non-Precision Approaches** Definitions of "established on approach", "Established in holding", and "cleared for approach" to be submitted by ED of ATPAC to PDG for publication in the P/C glossary. 7110.65U due out 02/09/12 **deferred until ATPAC #143. (Bruce McGray) AIM PUBLISHED 2/2012 CLOSED**

6. **AOC 123-4 Speed Assignment Procedures for Arriving Aircraft Status**
Action: Change 7110.65 and AIM to incorporate appropriate recommendations. Still with Safety.
Status: The final DCP package has been completed. Upon receipt of the aforementioned SRMDMs, the package (case file, executive summary, DCPs, proposed notice, and supporting SRMD) will be submitted for review, signature, and publication. **ATPAC #143 2/2012 Published CLOSED**

7. **AOC 116-1 Departure procedures/initial contact to departure control**
Action: Changes to 7110.65, AIM and Pilot/Controller Glossary on departure instructions to "maintain". Deferred to ATPAC #143. (Bruce McGray) Status Update: PUBLISHED CHG 2 3/10/11 in 7110.65, PCG. **AIM PUBLISHED 2/2012 CLOSED**

8. **AOC 137-1 – Minimum Fuel ATB article to be written. (Gary Norek) ATPAC #143 Published in Feb 2012 ATB CLOSED**

Bob Law, ATJ-23 brought up “Land after Procedures” used by NATS in England. ALPA mentioned this was much like Ben Rich’ s PPT. Terminal feels it would provide increased efficiency to back taxi. ATPAC will provide feedback.

Discussed Ramp Control vs Ground Control. PDC issuance.

Reminder request for nominations for Chair with list to be out for ATPAC #144 and election/transition at ATPAC #145 in October.

10:30 **Future Meetings Date/Site:**

ATPAC #144:
 June 5-7, 2012
 (Coincides with Navy and Marine Corps ATC Symposium)
 Site: Holiday Inn on the Bay
 San Diego, CA

ATPAC #145:
 30 Sept – 3 Oct, 2012
 (Coincides with ATCA Conference)
 Site: Gaylord Hotel & Resort
 National Harbor, MD

ADJOURNMENT: The meeting was adjourned on Wednesday, February 8, 2011 at 12:30pm

Thursday, Feb. 9th, 2012 – Potomac Tour cancelled

Areas of Concern

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AREA OF CONCERN 102-2

01/24/2001

SAFETY: No

SUBJECT: Instrument Approach Clearances to Other than IAF

DISCUSSION: ALPA is still receiving reports that ATC is clearing aircraft direct to intermediate or final approach fixes, and then expecting aircraft to execute a straight-in instrument approach procedure (“ IAP”). In fact, with the proliferation of RNAV/GPS IAPs this practice appears to be on the increase.

The instrument approach procedure design criteria do not account for descent gradient or course change factors that occur when aircraft begin an instrument approach procedure on an ad hoc basis. The only exception to beginning an IAP at an IAF is where vectors to the “ final approach course” (in accordance with 7110.65, 5-9-1) place the aircraft in the proper position to do a straight-in approach.

When an aircraft is not vectored in accordance with 5-9-1, the aircraft must be cleared over an IAF (or simply “ cleared approach” to leave the pilot free at remote locations to do the procedure as required by AIM directives, etc.). Controllers need to be reminded that arrival over an IAF that is not approved on the face of the procedure for “ NoPT” requires the pilot to do a course reversal.

The requirements set for in 7110.65, 4-8-1, are intended to apply to all IAP clearances, except for those conducted specifically under the provisions of 5-9-1. In recent discussions with ATP-100 staff, ALPA has learned that some quarters within Air Traffic Services consider Chapter 4 of 7110.65 to apply only to non-radar operations, rather than being the chapter that is the foundation for all IFR operations. Either this needs to be cleared up, or the language of 4-8-1 needs to be restated in Chapter 5.

Further, the language in 4-8-1 that refers to the intermediate fix is confusing, ambiguous, leads to endless speculation, and serves no valid operational purpose.

As protected airspace areas are reduced in RNAV and emerging RNP IAPs, bypassing a designated IAF increases the risk of an aircraft leaving protected airspace and colliding with an obstacle, in addition to the risks of violating turning and descent gradient requirements.

Also, ALPA understands that some controllers believe that the intent of 5-9-1 is satisfied by a clearance direct to an intermediate or final approach fix, followed by a “ radar monitor.” This is incorrect as it negates the requirement to intercept final at not more than a 20-30 degree angle, and at the appropriate minimum distance from the approach gate.

SUGGESTED ATPAC ACTION: A training bulletin should be issued to all controllers reviewing the intended requirements of 7110-65, 4-8-1. This would include a reminder that this paragraph applies to all IAP clearances except for vectors provided in accordance with 5-9-1. Further, a reminder that the “ intent” of 5-9-1 is not satisfied by simply clearing an aircraft directly to an intermediate or final approach fix, then merely observing the aircraft on radar. Finally, a reminder that a clearance for an IAP over an IAF that is not approved for “ NoPT” on the face of the chart will require the pilot to execute the prescribed course reversal, thus ATC separation services should be provided with that expectation in mind.

In 4-8-1 the present language “ Standard Instrument Approach Procedures shall commence at an Initial Approach Fix or an Intermediate Approach Fix if there is not an Initial Approach Fix...” should be amended to delete reference to the phrase “ Intermediate Approach Fix.” The only time an approach should begin at an intermediate approach fix is where vectors in accordance with 5-9-1 have been onto the approach course outside of the intermediate fix on a “ radar required” IAP that has no IAF s.

(See related agenda item “ Vectors to the IAP Course Prior to a Published Segment”). Finally, 4-8-1 should have language that makes it absolutely clear that the provisions of this paragraph apply in both a radar and non-radar environment, excepting only radar vectors provided in accordance with 5-9-1.

102 - Wally Roberts, ALPA, presented the AOC including a November 2000 letter from ALPA to the FAA, which expressed the concern. Executive Director reported that the FAA has drafted a response to the letter and that it is currently in coordination. The committee opted to wait for the FAA's response.

103 - Deferred for discussion at next meeting.

104 - Wally Roberts provided an update to the committee. Concerns were raised regarding the confusion of mixing procedural notes and system requirement (equipment) notes. Additional wording was suggested to distinguish equipment vs. procedure note. ATP and AFS need to jointly work the issue.

RECOMMENDATION #1: Form a FAA workgroup comprised of AFS, AVN, AAT, NATCA, and ALPA to work the issue and provide solutions to the problem.

Flight Standards will take the lead to make this happen.

The Flight Standards representative provided a brief overview of the issue. This is not a site-specific issue and controllers are doing the best with what they have. AVN and AFS will work together with the controllers to determine criteria for TERPS and the impact. A specific fix should not be targeted. Flight Standards takes the responsibility and commitment to work and explore the issue.

105 - Meeting with Wally and AFS to discuss issues has not yet occurred. After the meeting occurs, there will be a decision as to whether or not a workgroup should be formed. Request to review list of attendees and ensure that the proper attendees are there to obtain the desired results/outcome. He will try to have meeting in conjunction with the charting forum.

106—This did not get discussed at the past charting forum. AFS will try to get the parties together before the April meeting.

107 - The Flight Standards representative was unable to attend meeting 107. The AOC will be updated at the July meeting.

108 - FAA has had some internal discussions, but has had some difficulty getting all parties on the phone. Don Porter and Bruce Tarbert, ATP-104, briefed the committee on this AOC. DCP and CBI training are being edited to address GPS equipment and T approach issues. CBI training is targeted for release in September. Product will be presented for review in January and possible implementation in June/July 2003 timeframe.

109 - Bruce Tarbert, ATP-104, briefed the committee. DCPs have been finalized and signed. Training is expected to be out in April 2003, which will include TAA's. Consideration was given to distances from IAF and intercept angle. AVN is looking to see if additional guidance regarding speed is required.

110 - A Draft DCP was submitted to committee for review. A question was raised regarding the "IF (IAF)" notation on the diagram. A briefing will be provided at the next meeting to clarify the concerns.

111 - Some work has been done within Flight Standards, but there has not been a meeting of all the appropriate parties.

112 - AFS-420 workgroup has been formed to write-up a plan and proposed guidance. Development of a controller and pilot training initiative will be addressed. Workgroup's progress will be reported at the next meeting.

113 - AFS representative was unable to attend the meeting and provide an update. Question was raised whether the charting forum was working this issue.

114 - AFS representative was unable to attend the meeting and provide an update.

115 - AFS representative was unable to attend the meeting and provide an update.

116 - AFS representative was unable to attend the meeting and provide an update.

117 - New AFS representative at this meeting. Draft DCP for the AOC has been written. An update will be provided in January.

118 - AFS was unable to attend the meeting, but indicated to the committee that a reenergized effort will be made on this AOC. The committee wanted to emphasize that there had been considerable work done on this AOC by AFS and that there should not be a need to start over again.

Committee wanted to reiterate its recommendations to AFS.

119 - AFS brought up the issue before the Technical Review Board. A review of the ATO-W DCP for vectoring has been completed and was concurred with.

The committee requested for AFS to look at RNAV aircraft on the conventional side.

120 - DCPs are scheduled for publication in February 2006. Question: Would it have application to conventional procedures? ATO-T would have to provide feedback.

RECOMMENDATION #2: Determine/implement this type approach if it can be used by conventional aircraft.

121 - Clarify of Recommendation #2 was discussed and approved. It now reads:

RECOMMENDATION #2 (Revised): Determine/implement this type approach if it can be used by RNAV aircraft on a conventional approach.

ATO-T is still researching this issue with the RNAV office.

122 – RNAV' s have ability to go to other than designated IAF. It is published for RNAV on RNAV approach. Our AOC asks whether it can also be for conventional approach. Can the aircraft also meet altitude of IAF? It is there for RNAV. It should also be there for conventional approach. Operationally, this gives the controller more flexibility, less workload, streamlines operations.

This should be presented to RNAV office. ATO-T will draft a DCP.

123 - ATO-T will research and put out appropriate on the recommendation.

124 - ATO-T (Madison) will follow-up on DCP to present to RNAV/RNP Office.

125 - Dave Madison advised that AFS-400 is looking into this AOC and is working the group' s concerns. After group discussion, Harry Hodges, Flight Standards, agreed to follow-up and advice ATPAC of status.

126 - Jeff Williams, RNAV/RNP Office, provided an explanation. Discussion at 127 will determine if this is sufficient to satisfy the AOC.

127 - Harry Hodges gave his opinion that RNAV equipped aircraft may proceed to conventional intermediate fixes. Also discussed were the various levels of RNAV capabilities so that all RNAV' s are not compatible to accomplish successful navigation during a conventional approach. Jeff Williams was non-committal as to the answer to the AOC but will look into the applications, as was AFS-100. The consensus was that Jeff and David Madison should discuss and resolve.

128 - Discussions centered on the particular equipage of the aircraft. Ben Grimes concurred and will coordinate with RNAV Office to accomplish without SMS.

129 - Don Frenya/Kerry Rose will determine the status of SRMD action and Joe McCarthy will address the issue with ATO-T for reports at 130.

130 - Joe McCarthy will work with ATO-T regarding the SRMD and DCP will check status of DCP.

131 - Agreed that further coordination be done between the RNAV and ATO-T offices to ensure no duplication of effort.

132 - Mr. Jehlen suggested that this AOC should be removed from the minutes and tracked separately to be returned when a resolution is available. This and other items will be removed from the minutes and returned on action dates submitted by the responding office.

133 – Not discussed at this meeting.

134 - Not discussed at this meeting.

135 – There was significant discussion about perceived problem of controllers expecting aircraft to fly straight in but not clearing an aircraft for a straight in approach where a hold in lieu of procedure turn holding pattern is depicted. This is an editorial change since the information is already in an example. Pilot groups want the ability to clear an advanced RNAV aircraft to the intermediate fix on a conventional approach procedure. Currently this can only be done on an RNAV approach. Pilot groups want controllers to only clear aircraft direct to the intermediate fix if the fix is identified on approach charts with the letters "IF." We are also reorganizing the paragraphs in 4-8-2 to make the section less confusing. There are also other questions and items that need to be addressed. These items will be identified but will not be addressed in this AOC. Mike Frank took the action to open a DCP in order to create a definition of "established."

136 – Changes to the manuals have been done by both FAA terminal and RNAV groups. A meeting has been scheduled for Oct 25th and 26th with representatives from pertinent FAA lines of business including ATO Safety, as well as representatives from various industry user groups to discuss this. The outcome of that meeting should resolve AOC 102-2. The meeting is being hosted by the Aeronautical Charting Forum (ACF) - Instrument Procedures Group (IPG). An invitation was extended to any ATPAC member who would like to attend.

137 – No discussion. Status provided in Pre-Read Briefing: A meeting was held on October 26 between industry stakeholders, Terminal, En Route, and the RNAV office in advance of the Aeronautical Charting Forum meeting. The content of the two different iterations of the DCP was discussed. The content of both DCPs are for all intents and purposes the same, the differences lie with the format of the DCP. FAA personnel agreed to meet again to work out the issues of the DCP so it could be forwarded to the field for comment. That meeting was held on November 12 between Terminal, EnRoute and RNAV. The DCP has been finished and will be circulated for comment. Incorporation into FAA Order JO 7110.65 is expected in Change 2 planned for March 2011.

138 - Part 1: The DCPs for JO 7110.65, Paragraph 4-8-1, Approach Clearance, and the associated AIM and AIP went out for initial coordination on April 19, 2010, and comments are due back by June 4, 2010. There have been mixed responses from the field as it provides more robust instructions than the current 4-8-1.

Parts 2 & 3: A request was sent out to AJR and AJT as to whether the new DCP moved information on SI approach clearance to a more prominent place as originally requested. AJR replied that the issue is the wording in the example that states that if ATC does not want aircraft to do a hold in lieu of procedure turn they must say "Cleared for straight in." This was only shown in the example. The DCP will put this information in both the paragraph and the example.

139 - No discussion

140- Part 1 – Open, Reorganization and clean up of Order 7110.65, Para 4-8-1, Approach Clearance, and the associated AIM and AIP paragraphs. **Parts 2 & 3** – Recommend Closure

141 - AOC 102-2 Instrument Approach Clearances to Other than IAF

Part 1 – 7110.65U due out 02/09/12 **deferred until ATPAC #143** Members requested that the draft DCP to be sent out for review. **Part 2 & Part 3** – Recommend closure on Part 2 & 3. (M. Hilbert/ M Frank) **AOC Closed.**
NOTE: Instrument Approach Clearances to Other than IAF will be moved to recurring agenda for new issues surrounding it.

142 - No new issues.

143 - AOC 102-2 Instrument Approach Clearances to Other than IAF

Status: Part 1 – AJT is heading up the Approach Clearance Update ATPAC #141 Moved to reoccurring agenda. (Mike Hilbert/John Dutton) Status Update: 7110.65U due out Feb 2012 deferred. Robert James Law ATPAC

#143 Status Update Kevin Martin and Gary Fiske have been working with AOV on 102-2 should be **published by 2/2013**.

Status: Part 2 & Part 3 – The issue is with the statement in the example that states ATC must say "Cleared for straight in" if ATC does not want aircraft to do a hold in lieu of procedure turn. This was only listed in an example and is now in the paragraph and the example. Part 2 & 3 **ATPAC #141. CLOSED**

07/14/04

SAFETY: No

SUBJECT: Revision to FAAO 7110.65 and the AIM

REFERENCES: FAAO 7110.65, paragraph 4-2-5b: NOTE; AIM , Sections 4-4-9g and 5-2-6e7.

DISCUSSION:

The possibility of a misunderstanding between pilots and controllers during the issuance of an ATC clearance has been identified during discussions on the application of “Climb Via” in the RNP/RNAV Phraseology Work Group meetings and should be corrected.

Specifically, in accordance with the references stated above, the use of the term “maintain” when used in conjunction with the initial ATC clearance issued prior to departure *could* be understood to be an amended clearance and have the possible affect of canceling altitude restrictions contained on the Departure Procedure (DPs) issued in the same initial clearance. In considering this issue it is important to remember the following:

- The definition of “maintain” as contained in the P/C Glossary has not changed.
- The application and sequence of the term “maintain,” and the omission of previously issued altitude restrictions (including those on published DPs) is the key to understanding the procedure.

Each of the above references refers to a “restating” of the previously issued altitude to “maintain,” and the omission of any restrictions contained in a DP that would have applied. When the term “maintain” is used in the initial ATC clearance, *it is not a restatement*, but instead is one of the items included in the basic departure clearance data as contained in FAAO 7110.65, paragraphs 4-3-2 and 4-3-3, and paragraph 4-4-3 of the AIM.

While ALPA believes the possibility of a misunderstanding of the currently accepted procedure is small, ALPA realizes the task of ATPAC is to eliminate any such possibility to the extent possible. Therefore, ALPA recommends the following changes to both the AIM and FAAO 7110.65:

SUGGESTED ATPAC ACTION:

1. Revise FAAO 7110.65, Paragraph 4-2-5-b NOTE to read as follows:

NOTE-

The term “Maintain,” when used in issuing an altitude assignment as an item in the initial ATC clearance delivered to an aircraft prior to departure, does not constitute an amended clearance that cancels altitude restrictions issued by ATC or contained on any DP issued as an integral part of the same clearance. The depicted or assigned altitudes apply. However, in subsequent transmissions, restating a previously issued altitude to maintain is an amended clearance. If altitude to “maintain” is changed or restated, whether prior to departure of while airborne, and previously issued altitude restrictions are omitted, altitude restrictions are cancelled, including DP/FMSP/STAR altitude restrictions if any.

2. Revise AIM Paragraph 4-4-9g to read as follows: (New material is in italics.)

g. The guiding principle is that the last ATC clearance has precedence over the previous ATC clearance. When the route or altitude in a previously issued clearance is amended, the controller will restate applicable altitude restrictions. *The term “Maintain,” when used in issuing an altitude assignment as an item in the initial ATC clearance delivered to an aircraft prior to departure, does not constitute an amended clearance that cancels altitude restrictions issued by ATC or contained on any DP issued as an integral part of the same clearance. The depicted or assigned altitudes apply. However, in subsequent transmissions, restating a previously issued altitude to maintain is an amended clearance.* If an altitude to “maintain” is changed or

restated, whether prior to departure or while airborne, and previously issued altitude restrictions are omitted, altitude restrictions are cancelled, including DP/FMSP/STAR altitude restrictions if any.

3. Revise AIM Paragraph 5-2-6-e-7 as follows: (New material is in italics)

7. If, *after the initial ATC clearance has been delivered and acknowledged*, an altitude to “ maintain” is restated, whether prior to departure or while airborne, previously issued altitude restrictions are cancelled, including any DP altitude restrictions that applied.

Appropriate cross-references should be annotated for each of these changes.

SUGGESTED ATPAC ACTION: That ATPAC review this item and recommend changes to FAAO 7110.65 and the AIM.

116 - Committee expressed differing views on how clearance should be issued. Question: Does maintain cancel restrictions? This may be systemic and more than just an AIM change.

Committee requested to get RNAV and international offices views on the subject. Discussion will be held at October meeting.

117 - Briefing from Bruce Tarbert, RNAV and Don Porter, CSSI. “ Climb Via” is a new phraseology procedure being developed by the PCCP workgroup. Comply with Restrictions will be done away with when this is developed. Simulations will be done in the December/January timeframe. It was suggested that the workgroup bring in international to work on the issue together. This would decrease exceptions.

118 - The following information was provided by the RNP Office:

BACKGROUND: As a result of ATPAC’ s AOC 116-1, and the Committee’ s recommendation, the RNP Program Office (ATO-R/RNP) tasked the Pilot/Controller Procedures and Phraseology (P/CPP) working group to discuss this issue at its October meeting. The P/CPP was established to address RNAV and RNP implementation issues, and is made up of air traffic, aviation, and union subject matter experts. The P/CPP reviews, assesses and proposes changes to ATC procedures and phraseology and is tasked by the RNP Program Office with incorporating those changes into FAA Order 7110.65, the AIM and AIP.

DISCUSSION: After lengthy discussion the P/CPP came to the following conclusions: if used as prescribed, the phrase "maintain" is clear and unambiguous; that this is an ATC training issue; and to create another "situational" (on the ground vs. in the air) definition for the use of “ maintain” would create further confusion.

RECOMMENDATION: ATO-R/RNP concurs with the P/CPP and makes the following recommendations:

1. In the near term, develop a Mandatory Briefing Item (MBI) for ATC facilities that discusses this issue and gives the necessary guidance to correct the problem.
2. Include this issue, complete with a description of the problem and the correct applications and uses for the maintain phraseology, in the next RNAV and RNP Computer Based Instruction (CBI) that is currently under development and due to be completed in March. Distribution to facilities is planned in the June/July timeframe.
3. Make any necessary changes to the appropriate sections of the FAAO 7110.65, the AIM and the AIP to add clarity and emphasis where needed.

Discussion by the committee brought out these points:

- Confusion is on the pilot’ s part not the controller.
- TB would not address this issue.
- Need to go to the POI’ s, training schools, etc. to help

Update requested in April to see the definitions.

119 - Update provided by Bruce Tarbert and Don Porter of the RNP office.

Issue “ Maintain” initial clearance. Because it has different meanings in different circumstances a training issue has arisen. An ATB article has been drafted and a CBI that addresses the issues is under review. Handbook changes will be look at if necessary.

In initial clearance it is not possible to clear above SID altitudes without canceling prior SID altitudes. Altitude is a legal part of the clearance and has to be included. System Operations is looking at this issue.

120 - The RNAV office was unable to provide an update for the Anchorage meeting. Updated status will be provided in October.

121 - Update provided by Don Porter of the RNAV Office. There are several issues with “ maintain” in SIDs and STARs. It is a problem for both pilots and controllers. A better definition may need to be looked at by Don’ s group. One solution is to insert waypoint to define altitude. (Ex. “ Descend via Baxter1, after Laady maintain 080.”) Meaning should be the same in the air as on the ground. Training issues are forthcoming.

122 - “ Descend via” has been in the book for a year and not all know about it. Lots of ASRS reports on the confusion. “ Maintain” also causing confusion, including while aircraft are descending. Issue – With a restriction on SIDs/STARs does “ maintain” cancel restriction? Yes. The above issues need to be given to Don’ s group. Training is a must. There needs to be a basis understanding. Also, suggest an ATB on phraseology. Issue of ICAO harmonization also needs to be addressed.

123 - The RNAV office representative was unable to attend this meeting and will be invited to meeting 124.

124 - Per Bruce Tarbert, RNAV/RNP Office, Don Porter is working on the draft DCP.

125 - A DCP will be developed and put into process by Dave Madison, ATO-T, who will also coordinate with Flight Standards.

126 - Dave Madison was unable to attend and report on this AOC.

127 - This item was not discussed due to time constraints.

128 - ATPAC recommendations were submitted and discussed. Ben Grimes advised a change to the PCG has been issued. A DCP has been issued by ATO-T with ATPAC recommendations.

129 - Joe McCarthy was brought up to speed on this issue and will report on progress at

130 - Joe will discuss with ATO-T and report at 131.

131 - Scott Casoni advised the referenced paragraphs do not exist. Discussion was that a recommendation from ATPAC remains to obtain clarification of terms regarding “ maintain.” Kerry Rose will contact the RNAV office in order to connect with the PARC’ s phraseology group so as to establish a connection with the groups, charters, and processes.

132 - Mr. Hilbert (RNAV/RNP Office) provided answers on SRM panels and DCP coordination. It was suggested that an ATPAC tracking system (through publication) be established on some of these items. It will be taken off future ATPAC meeting minutes and placed in a “ side template” showing due date of 3/11. This remains open and all items should be completed and reported in the next meeting. Mr. Jehlen suggested that this AOC should be removed from the minutes and tracked separately to be returned when a resolution is available. This and other items will be removed from the minutes and returned on action dates submitted by the responding office.

RECOMMENDATION 1a: In the near term, develop a Mandatory Briefing Item (MBI) for ATC facilities that discusses this issue and gives the necessary guidance to correct the problem.

1. Include this issue, complete with a description of the problem and the correct applications and uses for the maintain phraseology, in the next RNAV and RNP Computer Based Instruction (CBI) that is currently under development and due to be completed in March. Distribution to facilities is planned in the June/July timeframe.

2. Make any necessary changes to the appropriate sections of the FAAO 7110.65, the AIM and the AIP to add clarity and emphasis where needed.

RECOMMENDATION 2: AOC 116-1 discussed in-depth the issues involving the application of the term “ Maintain” . However, a review of the AOC revealed that an important additional item should be added to the suggested ATPAC action in that AOC. That is, the addition of a third application of the term “ maintain” in the Pilot/Controller Glossary. This is necessary because the current definition does not address the issue of the term’ s meaning when applied in amended clearances, and that is a source of the existing problem.

For reference: Maintain is currently defined in the Pilot/Controller Glossary as:

a. Concerning altitude /flight level, the term means to remain at the altitude/flight level specified. The phrase “ climb and” or “ descend and” normally precedes “ maintain” and the altitude assignment; e.g., “ descend and maintain 5,000.”

b. Concerning other ATC instructions, the term is used in its literal sense; e.g., maintain VFR”

The following is proposed as a revision to the above definition of “ maintain” as it now exists. The new material is in italics:

a. Concerning altitude /flight level, the term means to remain at the altitude/flight level specified. The phrase “ climb and” or “ descend and” normally precedes “ maintain” and the altitude assignment; e.g., “ descend and maintain 5,000.”

b. *Concerning the use of the term in amended clearances prior to or after departure. If altitude to “ maintain” is changed or restated in the amended clearance, and previously issued altitude restrictions are omitted, altitude restrictions are cancelled, including FMSP/STAR altitude restrictions if any.*

c. Concerning other ATC instructions, the term is used in its literal sense; e.g., maintain VFR”

133 - Not discussed at this meeting. Mr. Jehlen suggested that this AOC should be removed from the minutes and tracked separately to be returned when a resolution is available. This and other items will be removed from the minutes and returned on action dates submitted by the responding office.

134 - Not discussed at this meeting.

135 - Not discussed at this meeting. Update provided by Mike Hilbert before meeting and sent out in Pre-read briefing – SRM panel met; SRMD in development, estimated publication of change in FAA Order JO 7110.65, the AIM, and the AIP is February 11, 2010.

136 - Not discussed at this meeting. Update provided by FAA AJR-37 before meeting and sent out in Pre-read briefing– estimated publication of change in FAAO JO 7110.65, AIM, and AIP has been pushed back until July 29, 2010.

137 - Not discussed at this meeting. Update provided by FAA AJR-37 before meeting and sent out in Pre-read briefing– estimated publication of change in FAA Order JO 7110.65, AIM, and AIP has been pushed back until March 10, 2011. Currently there are 14 DCPs in the process to cover this issue. The DCPs are with the PDG and are in the field coordination phase.

138 – Not discussed at this meeting. DCPs are in comment resolution phase.

139 – Not discussed at this meeting. Publication date pushed back. Update at #141.

140 – Not discussed at this meeting.

141 – Revision to FAAO 7110.65 changed 3/10/11 pg 4-2-2 Members closed this part of AOC; AIM changes awaiting publication on 2/10/2012. ATPAC #143

142 – Deferred to ATPAC #143.PUBLISHED CHG 2 3/10/11 in 7110.65, PCG. Published in AIM 2012.

143 –AOC 116-1 Departure procedures/initial contact to departure control

Action: Changes to 7110.65, AIM and Pilot/Controller Glossary on departure instructions to "maintain".
Deferred to ATPAC #143. (Bruce McGray) Status Update: PUBLISHED CHG 2 3/10/11 in 7110.65, PCG.
AIM PUBLISHED 2/2012 CLOSED

AREA OF CONCERN 116-3

07/14/04

SAFETY: No

SUBJECT: ILS Glide Slope Critical Area Advisory

REFERENCE: AIM 1-1-9k2(b)(2)

DISCUSSION: The above referenced paragraph in the AIM does not accurately reflect what terminology pilots should use when advising ATC they will conduct a coupled/autoland approach when the weather is above 800-2. The example used in the paragraph “ ***Glide slope signal not protected***” is an advisory that would be issued by the control tower in response to pilot notification of a coupled approach.

Another issue contained in this paragraph that ATPAC needs to discuss is that the ILS critical areas are only protected when the aircraft is inside the middle marker (MM). Considering the fact that MM’s are located approximately 3500ft from the runway threshold, which is entirely too short a distance to be useful for such approaches, and they are being removed at the majority of locations, it appears necessary to replace the term MM in this paragraph with “ Final Approach Fix (FAF).” This would be in line with the Glide Slope Critical Area comments contained in AIM paragraph 1-1-9k2.

The use of coupled/autoland approaches has become more common with the fleet of highly automated aircraft operating in the inventory, and the ILS critical area requirements need to be updated to reflect this fact.

SUGGESTED ATPAC ACTION: That ATPAC discuss this issue and recommend the following:

1. That the pilot advisory example contained in the above referenced AIM paragraph be replaced with the following sample advisory:

PHRASEOLOGY-

[Name of tower] [Call sign] [coupled/autoland] APPROACH

2. That the term MM contained in the above referenced AIM paragraph be replaced with the term **FAF** or **OM**, whichever is the most appropriate.

116 - MSP has a glideslope critical area issue with a certain taxiway. Many aircraft use the coupled approach most of the time. Comment that when issuing ILS procedures it should be known that the aircraft is coupled without having to broadcast it on the frequency. This will be a capacity issue because aircraft must be certified to “ autoland.” If not certified, they can’t fly CATIII. AFS needs to be involved in this issue.

RECOMMENDATION #1:

1. That the pilot advisory example contained in the above referenced AIM paragraph be replaced with the following sample advisory:

PHRASEOLOGY-

[Name of tower] [Call sign] [coupled/autoland] APPROACH

2. That the term MM contained in the above referenced AIM paragraph be replaced with the term FAF or OM, whichever is the most appropriate.

117 - Office of Primary Interest (OPI) has been contacted. Committee will be provided status when available.

118 - There was concern that the OPI would understand the issues being addressed and would make the proper handbook changes. The OPI will be contacted and a discussion will be held at the next meeting.

119 - 800&2 and below is protected, not above. If there is no compelling evidence then policy should not be changed. Possibly change 7210.3 to designate a runway for autoland approaches to CAT II/III runways. Alternate is maintenance recertification.

RECOMMENDATION #2: That the FAA ATO develop guidance to achieve the following: FAA Order 7210.3, Facility Operation and Administration, should be changed to have terminal facilities with CAT II or CAT III approaches include procedures to accommodate “coupled” or “autoland” operations per FAA Order 7110.65, 3-7-5b to include protecting the critical area. This should include controller awareness of the need to accommodate these operators and may include designating a preferred runway and arrival procedures for these operations.

120 - Several ideas were provided on this AOC:

- Consider designating autoland/coupled approach runways as per Recommendation #2.
- Provide more education to controllers.
- Obtain development help from Anchorage office (Mutzko).
- Certification could relax the 90 day requirement for autoland/coupled approaches.
- Determine which airports could dedicate a runway for these approaches.

AT and AF will work on the dedicated runway issue.

RECOMMENDATION #3: Synchronize the AIM to the 7110.65/PCG definition of ILS Critical Area.

121 - Instruction issued to controllers to issue and protect the approaches when able. ATO-T said there is no need for having airports dedicate runways for this purpose. Airports need to be aware of the need and accommodate as much as possible.

122 - Article in ATB regarding facility’ s handling coupled/autoland approaches. There are 2 issues. Autopilot cert. issues and flying coupled because ops. Specs. /company require it. If the critical are is unprotected the pilot is out on a limb. There is a disconnect between certification, AFS, AT, and the POIs.

RECOMMENDATION #1 (Revised Part 1): That the pilot advisory example contained in the above referenced AIM paragraph be replaced with the following sample advisory:

PHRASEOLOGY-

[Call sign] AUTOLAND or COUPLED APPROACH.

Add: The tower will advise if the ILS critical areas are not protected with the following sample advisory: *ILS critical areas not protected.*

123 - Comment that ATC is not aware of the requirements for autoland/coupled approaches. Would an ATB article help address this issue? AFS could look at the requirements because they are the ones that impose them.

ATO-T will work Recommendation #1 and the chair will provide draft language for Recommendation #3. As previously reported, Recommendation #2 will not be implemented.

124 - Common language was defined by the group and will be submitted. Mark Cato will write an article for pilots and Flight Standards highlighting the committee’ s new thinking on the coupled/autoland issue and Harry will consider that as a starting point for coordination for an HBAT item. Also, Dave and John will develop a DCP to reflect the following ATPAC recommendations:

Recommended changes included deleting references to Autoland in Coupled Definition and Coupled in Autoland Definition.

AUTOLAND APPROACH - An autoland approach is a precision instrument approach to touchdown and, in some cases, through the landing rollout. An autoland approach is performed by the aircraft autopilot which is receiving position information and/or steering commands from onboard navigation equipment.

NOTE-

Autoland approaches are flown in VFR and IFR. . It is common for carriers to require their crews to fly autoland approaches (if certified) when the weather conditions are less than approximately 4,000 RVR.

COUPLED APPROACH - A coupled approach is an instrument approach performed by the aircraft autopilot which is receiving position information and/or steering commands from onboard navigation equipment. In general, coupled nonprecision approaches must be discontinued and flown manually at altitudes lower than 50 feet below the minimum descent altitude, and coupled precision approaches must be flown manually below 50 feet AGL.

NOTE-

Coupled approaches are flown in VFR and IFR. . It is common for carriers to require their crews to fly coupled approaches (if certified) when the weather conditions are less than approximately 4,000 RVR.

7110.65 Recommended change

3-7-5. PRECISION APPROACH CRITICAL AREA

b. Air carriers commonly conduct "autoland" operations to satisfy maintenance, training, or reliability program requirements. Promptly issue an advisory if the critical area will not be protected when an arriving aircraft advises that an "autoland" approach will be conducted and the weather is reported ceiling of 800 feet or more, and the visibility is 2 miles or more.

Recommended change includes flight crew notification to Approach Control

AIM 1-1-9k2

k. ILS Course Distortion

1. All pilots should be aware that disturbances to ILS localizer and glide slope courses may occur when surface vehicles or aircraft are operated near the localizer or glide slope antennas. Most ILS installations are subject to signal interference by surface vehicles, aircraft or both. ILS CRITICAL AREAS are established near each localizer and glide slope antenna.

2. ATC issues control instructions to avoid interfering operations within ILS critical areas at controlled airports during the hours the Airport Traffic Control Tower (ATCT) is in operation as follows:

(a) Weather Conditions. Less than ceiling 800 feet and/or visibility 2 miles.

(1) Localizer Critical Area. Except for aircraft that land, exit a runway, depart or miss approach, vehicles and aircraft are not authorized in or over the critical area when an arriving aircraft is between the ILS final approach fix and the airport. Additionally, when the ceiling is less than 200 feet and/or the visibility is RVR 2,000 or less, vehicle and aircraft operations in or over the area are not authorized when an arriving aircraft is inside the ILS MM.

(2) Glide Slope Critical Area. Vehicles and aircraft are not authorized in the area when an arriving aircraft is between the ILS final approach fix and the airport unless the aircraft has reported the airport in sight and is circling or side stepping to land on a runway other than the ILS runway.

(b) Weather Conditions. At or above ceiling 800 feet and/or visibility 2 miles.

(1) No critical area protective action is provided under these conditions.

(2) A flight crew, under these conditions, should advise the approach control, “ (Call sign), autoland approach.” to request that the ILS critical areas are protected.

EXAMPLE-

Glide slope signal not protected.

(Note added)

NOTE-

Aircrews navigating a precision or non-precision approach other than autoland by engaging the autopilot should not expect critical area protection if the weather is at or above ceiling 800 feet and/or visibility 2 miles.

3. Aircraft holding below 5,000 feet between the outer marker and the airport may cause localizer signal variations for aircraft conducting the ILS approach. Accordingly, such holding is not authorized when weather or visibility conditions are less than ceiling 800 feet and/or visibility 2 miles.

4. Pilots are cautioned that vehicular traffic not subject to ATC may cause momentary deviation to ILS course or glide slope signals. Also, critical areas are not protected at uncontrolled airports or at airports with an operating control tower when weather or visibility conditions are above those requiring protective measures. Aircraft conducting coupled or autoland operations should be especially alert in monitoring automatic flight control systems. (See FIG 1-1-7.)

NOTE-

Unless otherwise coordinated through Flight Standards, ILS signals to Category I runways are not flight inspected below 100 feet AGL. Guidance signal anomalies may be encountered below this altitude.

125 - The ATPAC recommendation was validated and will be forwarded for action by ATO-R.

126 - Dave Madison was unable to attend this meeting for ATO-T.

127 - Ben Grimes will check into the status of this recommendation and report at 128.

128 - Ben Grimes advised the committee that ATO-T non-concurred with the recommendation.

129 - Discussions were centered on the committee's desire to resolve what they perceived to be a critical flight issue that should be addressed.

130 - Wilson Riggan will provide a memorandum for submission to ATO-T through Kerry Rose.

131 - It was determined that FAAO 7110.65 had been changed to reflect the ATPAC recommendation leaving only the AIM to be addressed by this proposed change in Para 1-1-9k2.

132 - Flight Standards controls AIM information and will be asked to match the 7110.65 entries.

133 - Kerry Rose asked if this is still valid or is it an interpretation request? Kerry Rose talked about the future members coming to the PDG that would resolve this issue. *AJR-53 for action upon arrival of newly assigned personnel.*

134 - Scott Casoni reported that this change was in process. No further discussion.

135 - Some of the recommended changes have been made in FAA Order JO 7110.65 but not all. Corresponding changes in the AIM and AIP were never made. It was determined that we would work this through the Procedures Development Group (PDG), and after reading all the recommendations, the group would draft the

changes for all three publications and run them through ATPAC for agreement via email or a telcon. If it is agreed on, we would write up the corresponding DCPs and make the changes.

136 – APA member requested that a DCP be written to change FAA Order JO 7110.65 to include notification to the tower by the pilot about why they are requesting ILS Critical Area be protected. The reason is that pilots need to stay current and it is a very long, costly process to accomplish this on the ground. APA requested that positive phraseology be added to indicate approval request.

137 – Not discussed at this meeting.

138 – Part 1: Not discussed at this meeting. DCP to consolidate all the recommendations and come up with changes for 7110.65, AIM, and AIP will be coordinated by ATPAC. DCP request is in discussion with Terminal due to multiple requests from different Change Proponents concerning the same paragraph. **Part 2:** No information received from APA on their action item to provide educational packet.

139 – Part 1: Not discussed at this meeting. DCPs are out for initial coordination. Projected incorporation is August 25, 2011. **Part 2:** APA advised that there is no support for moving this forward; recommends closure.

140 - Part 1: Open, Deferred to meeting #142. **Part 2** – Item closed.

141 – Part 1 publication pushed back 2/9/2012. Deferred to meeting #143 **Part 2** – Item closed.

142 - FAA will contact Terry Perschall AFS-200 hand flown approach and get DCP from Bob Law

143 - AOC 116-3 - Glide Slope Critical Area Advisory Action: Group of PDG to look through AOC, consolidate all the recommendations and come up with changes for 7110.65, AIM and AIP to run by ATPAC. Status: Deferred to ATPAC #142 12/29/10 –. 5/2011 AJT-24 made some "major" changes when F12 was here. I need to get with AFS-200 and vet these changes before we can put back into the coordination system here at HQ (Final clearance). This was dropped inadvertently - I will bring this issue back to life next week and hopefully get the change into final coordination ASAP! Robert James Law. Status Update ATPAC #143 116-3, I sent the draft DCPs to distribute among the ATPAC members. Robert James Law no feedback from ATPAC members. DEFERRED ATPAC #145 Pub 2/2013

AREA OF CONCERN 123-2

04/19/06

SAFETY: No

SUBJECT: Aircraft Vertical Performance Data

DISCUSSION: Paragraph 4-4-9d of the AIM contains broad guidance for pilots relating to aircraft descent and climb rates. Specifically; the second sentence of the paragraph begins with the words “ *Descend or climb at an optimum rate consistent with the operating characteristics of the aircraft.....*” This phrase is all encompassing and does adequately recognize that specific climb and descent performance criteria is largely controlled by flight management system vertical guidance programs, aircraft type, and specific operator procedures. Therefore, specific performance criteria are not included in the paragraph, nor are there any regulatory requirements relating to this subject. Most pilot operations manuals only contain information extracted from paragraph 4-4-9 relating to a requirement to notify ATC if a climb or descent of at least 500ft per minute cannot be sustained.

However, Appendix A of FAA Order 7110.65 contains climb and descent figures for most aircraft operating in the ATC system. If the purpose of this information is to provide controllers guidance on what performance they may expect from aircraft they are controlling, they may be working with erroneous data. Also, Note 2 of paragraph 4-5-7e of FAA Order 7110.65, refers to descent rates contained in the AIM: “ *Controllers need to be aware that the descent rates in the AIM are only suggested and aircraft will not always descend at those rates.*” ALPA believes that this paragraph was originally intended to refer to the performance figures contained in Appendix A of 7110.65, as there does not appear to be any correlation to what is contained in the AIM.

SUGGESTED ATPAC ACTION: That ATPAC review this information and recommend that Note 2 of paragraph 4-5-7e, FAAO 7110.65 either be deleted or changed to pertain to the data contained in Appendix A of the Order, and, that the data contained in Appendix A be reviewed to insure it reflects the most accurate and complete performance information for controller guidance.

123 - Chart needs to be updated or removed. Each chart is based on certification. How pilots fly it can be different. Appendix redone when LAHSO was being worked. ATO-T will coordinate with Certification, then evaluate whether chart should remain.

124 - ATO-T will coordinate with Certification then evaluate whether chart should remain.

125 - Due to insufficient time for the appropriate discussions this AOC will be further deferred until 126.

126 - The current status of this item is unknown and should be worked by ATO-T.

127 - This item' s status remains unreported.

128 - Ben Grimes reported that this item will be discussed at an August meeting and a determination will be made to revise, eliminate climb characteristics, and/or eliminate the table.

129 - This item was again discussed as needing updating or cancellation because it is not current with aircraft performance.

130 - A report received via email advised that a panel has been convened to discuss this item as it relates to ICAO directives.

131 - Various groups are being polled with the intent to determine their use of the .65 appendix with a goal to determine if the chart is valid enough to continually update or eliminate for controller use.

RECOMMENDATION: Chart needs to be updated or removed.

132 - AJR-53 now taking this on as action. Remains open (deferred for two meetings) and placed in a side template showing due date of Mtg #135. Mr. Jehlen suggested that this AOC should be removed from the minutes and tracked separately to be returned when a resolution is available. This and other items will be removed from the minutes and returned on action dates submitted by the responding office.

133 - Not discussed at this meeting. Mr. Jehlen suggested that this AOC should be removed from the minutes and tracked separately to be returned when a resolution is available. This and other items will be removed from the minutes and returned on action dates submitted by the responding office.

134 - Not discussed at this meeting.

135 - There are two parts to the AOC. Part 1 involves incorrect, outdated information in the climb tables. Bruce McGray, AFS, has taken action to identify correct information so that it may be put into the tables. Part 1a - Proper information, when received, will then be incorporated into appropriate area. Part 2 involves personnel being erroneously directed from FAA Order JO 7110.65 (paragraph 4-5-7e Note 2) to the AIM (paragraph 4-4-10d) for guidance; this error is planned to be changed in the next update in February. **(Note: Original paragraph mentioned in AIM 4-4-9d is now 4-4-10d)**

136 – FAA AJT- 22 will write changes and submit to PDG. The Safety study and AFS-400 documents will be part of package.

137 – Discussion determined that on the job training from carrier to carrier is more crucial than populating a table. However, AFS has sent a memo to the PDG providing direction on which aircraft performance characteristic is useable for general ATC purposes.

138 – Part 2: AFS has provided Janes as the resource. It will be incorporated into the proper area. Projected implementation is late summer 2010.

Part 3: No discussion. Editorial memo sent to Publications from PDG for editorial changes. Changes will be in Change 1, August 26, 2010.

139 – Part 2: Web developers are working on incorporating the information to a website. There is no estimated time for completing this. Executive Director recommended closure as the group' s task of finding a source has been completed; move to Recurring Agenda Item for status updates only.

Part 3: Editorial memo sent to Publications from PDG for editorial changes. Changes will be in Change 1, August 26, 2010.

140 – Looking for host of website.

141 – Web site will be hosted by NASE, ATPAC members provide with website information. Members requested update when website is complete. Deferred until website is complete.

142 - Status: The database will be hosted by the NASE in NJ. They are completing a technical refresh on their website and hope to have it completed by November. Committee members deferred item until published.

143 - Status Update: Technology refresh was moved back to March and then FAA reorganization NASE may not be able to host.

AREA OF CONCERN 123-4

04/19/06

SAFETY: No

SUBJECT: Speed Assignment Procedures for Arriving Aircraft

DISCUSSION: Neither FAA Order 7110.65 nor the AIM contains clear guidance for controllers or pilots relating to airspeed management during STAR/RNAV arrivals. Specifically, when airspeed is issued by ATC for sequencing, it is not clear when a pilot may reduce that airspeed in order to comply with regulatory airspeeds contained at fixes depicted on the arrival chart. While specific procedures relating to altitude management during such arrivals are included in both publications, the same type of guidance for airspeed management is not. Pilot reports and local procedures implemented by an FAA Center confirm this problem.

ALPA believes this issue can be resolved by revising FAAO 7110.65, Para 5-7-2, and AIM section 4-4-11 as follows:

7110.65, Para 5-7-2: Add sub paragraph **e** as follows:

e. If a STAR/arrival procedure is issued after a speed assignment, pilots will be expected to comply with speed restrictions contained on the published arrival procedure. If ATC assigns a speed for sequencing **after** a STAR or other transition arrival procedure has been issued, pilots are expected to maintain that speed until further advised.

It is the controller's responsibility to ensure speed assignments are managed to allow pilot compliance with 14 CFR Section 91.117."

AIM section 4-4-11: Add new paragraph **f.** as follows and adjust remaining subparagraphs alphabetically as required: The existing **NOTE** following the current paragraph 4-4-11e, Example 2, should now follow the proposed paragraph **f.**

f. When a STAR/RNAV transition is issued **after** a speed assignment, pilots should comply with speed restrictions contained on the published arrival. If ATC assigns the speed **after** the clearance for a published arrival procedure, pilots are expected to maintain that speed until further advised.

SUGGESTED ATPAC ACTION: That ATPAC review this issue and consider approving the above recommendations.

123 - Controllers assign what they need and are aware of the restrictions on the procedures. Discussion on DFW arrivals and constraints on route in relation to speed. Needs to be education of both pilots and controllers.

RECOMMENDATION #1: Add appropriate notes to the AIM and the 7110.65.

124 - ATPAC further refined its recommendation as follows:

7110.65, Para 5-7-2: Add sub paragraph **e.** as follows:

e. " When a SID/STAR is issued after a speed assignment, pilots will comply with speed restrictions contained on the published procedure. When a speed is assigned **after** a SID/STAR has been issued, pilots will maintain that speed until further advised.

It is the pilot's responsibility to ensure speed assignments are managed to permit compliance with 14 CFR Section 91.117.

AIM section 4-4-11: Add new paragraph **f.** as follows and adjust remaining subparagraphs alphabetically as required: The existing **NOTE** following the current paragraph 4-4-11e, Example 2, should now follow the proposed paragraph **f.**

f. When a SID/STAR is issued **after** a speed assignment, pilots will comply with speed restrictions contained on the published procedure. When a speed is assigned **after** a SID/STAR has been issued, pilots will maintain that speed until further advised.

125 - Due to insufficient time for the appropriate discussions this AOC will be further deferred until 126.

126 - This item was not reviewed at 126. Steve Alogna will check status and report at Mtg #127.

127 - This AOC was discussed however further coordination was needed.

128 - David Young will coordinate with Ben on an existing proposal with a goal to satisfy this AOC.

129 - Clarification of the status of this item is needed.

130 - ATO-T advised that the current directives are sufficient. David Young will revisit issue with ATO-T and report findings at #131.

131 - Richard Kagehiro, ATO-E, advised that the RNAV office has developed a draft DCP and is in the process of impaneling an SRM group. Larry Newman advised that the PARC had developed phraseology to address the issue.

132 - Completion dates submitted on their work plan. Remains open (deferred for two meetings) and placed in a side template showing due date of Mtg #135. Mr. Jehlen suggested that this AOC should be removed from the minutes and tracked separately to be returned when a resolution is available. This and other items will be removed from the minutes and returned on action dates submitted by the responding office.

RECOMMENDATION: Add appropriate notes to the AIM and the 7110.65.

133 - Not discussed at this meeting. Mr. Jehlen suggested that this AOC should be removed from the minutes and tracked separately to be returned when a resolution is available. This and other items will be removed from the minutes and returned on action dates submitted by the responding office.

134 - Not discussed at this meeting.

135 - Not discussed at this meeting. Update provided by Mike Hilbert prior to meeting and sent out in Pre-read – SRM panel met; SRMD in development, estimated publication change in FAO JO 7110.65, AIM, and AIP is February 11, 2010.

136 - Not discussed at this meeting. Update provided by AJR-37 prior to meeting and sent out in Pre-read – estimated publication of change in FAO JO 7110.65, AIM, and AIP has been pushed back until July 29, 2010.

137 - Not discussed at this meeting. Update provided by AJR-37 prior to meeting and sent out in Pre-read – estimated publication of change in FAA Order JO 7110.65, AIM, and AIP has been pushed back until March 10, 2011.

138 – No discussion. Projected publication is now Change 2, March 10, 2011.

139 – No discussion. Projected publication is March 10, 2011.

140 - Deferred to Meeting #141

141 - The final DCP package needs to be put together along with the case file, executive summary, DCPs, proposed notice, and supporting SRMD prior to submission for review and approval. (Anticipated completion date Defer until 02/09/12)

142 - The final DCP package has been completed. Upon receipt of the aforementioned SRMDs, the package (case file, executive summary, DCPs, proposed notice, and supporting SRMD) will be submitted for review, signature, and publication. 2/12/2012 Deferred until published 2012

143 - AOC 123-4 Speed Assignment Procedures for Arriving Aircraft Status **Action:** Change 7110.65 and AIM to incorporate appropriate recommendations. Still with Safety. **Status:** The final DCP package has been completed. Upon receipt of the aforementioned SRMDMs, the package (case file, executive summary, DCPs, proposed notice, and supporting SRMD) will be submitted for review, signature, and publication.
ATPAC #143 2/2012 Published CLOSED

AREA OF CONCERN 123-6

04/19/06

SAFETY: Yes

SUBJECT: Precision Obstacle Free Zone (FAA Order 7110.65, Paragraph 3-7-6)

DISCUSSION: The procedure is not realistic and is a definite safety hazard. The only realistic control instruction is: "Go around." You can't expect the pilot to adjust his minima this late in the approach.

SUGGESTED ATPAC ACTION: That ATPAC recommend that the FAA rescind this paragraph immediately through a GENOT and direct controllers to issue go-around instructions if the POFZ is not clear.

123 - The committee expressed concern that the dimensions and activity in this "zone" may change on short final and change the actual minimums for the approach that may be contrary to the operator's.

ATO-T will work the issue through a GENOT and report to the committee in July.

124 - The paragraph in question was rescinded by GENOT at the committee's request. ATPAC will investigate status with NCAR.

125 - Due to insufficient time for the appropriate discussions this AOC will be further deferred until 126.

126 - Subsequent to the meeting this item was published by ATO-T despite objections by ATPAC whose members recommended a controller initiated go around when conditions warranted and traffic was in the POFZ.

127 - This item was not addressed due to time constraints.

128 - This item was tabled and not re-addressed.

129 - The committee agrees that this issue needs to be addressed as it might place the aircraft in dangerous proximity to hazards without sufficient time for prudent reaction.

130 - Wilson maintains the IOU to complete a proposal for an MBI.

RECOMMENDATION: Controller initiated Go Around. *The FAA has identified an area near the runway which must be kept clear of ground traffic in low IFR conditions (300-3/4) in order to maintain the Target Level of Safety (TLS) with respect to the approaching aircraft. This area is defined as the Precision Obstacle Free Zone (POFZ). The subject of this AOC is to address the issue of what the controller and pilot actions should be in the unlikely event of a POFZ transgression. The ATPAC held extensive discussions on this issue, including briefings from Flight Standards risk analysis personnel and input from various airline, pilot, and controller groups, as well as Air Traffic Terminal and Systems Operations representatives. The distance of approximately 3/4 mile out on final was identified as the longitudinal location at which the approaching aircraft's collision risk with the encroaching ground traffic has increased beyond the TLS. If the approaching aircraft goes around prior to that point, it never enters the dangerous zone and thus its risk never exceeds that limit. Alternatively, once passing that point, going around creates the very risk we seek to avoid due to the potential for lateral drift and drift-down during the go-around procedure.*

ATPAC believes the recommended actions below will provide pilots and controllers with an effective and easily understood mitigation to a POFZ violation and ensures maximum protection of the POFZ up to but not beyond the point where the Target Level of Safety becomes negatively impacted by the execution of a "go around."

ATPAC recommends that the FAA take the following actions:

- *Identify the point on the approach beyond which the TLS is no longer supported if the aircraft goes around due to an object infringing on the POFZ.*
- *The identification of this point on approach must consider human factors data so as to allow for the communication of a "go around" instruction and the pilot's reaction time for initiating the procedure.*

From our discussions with Flight Standards, we believe that point will be approximately one mile out on final.

- Once this point is identified, the FAA should develop procedures which will ensure that one of the following two actions occur:

- If an aircraft is outside the identified point on approach and an object (aircraft, vehicle, etc.) violates the POFZ, the controller issues “ go around” instructions to the aircraft on approach.

- Or, if an aircraft on approach has passed that point and an object violates the POFZ, the controller does not issue “ go around” instructions, but reverts to existing ILS Critical Area / Runway Incursion procedures.

- As this procedure may appear counter-intuitive, include a “ note” to the procedure In JO 7110.65S explaining the purpose of this change.

131 - Wilson presented a draft of the ATPAC recommendation for submission to ATO-T for their action.

132 - Change in manpower within ATO Terminal halted further research and forced reassignment. Mr. Jehlen suggested that this AOC should be removed from the minutes and tracked separately to be returned when a resolution is available. This and other items will be removed from the minutes and returned on action dates submitted by the responding office.

133 - Change in manpower within ATO Terminal halted further research and forced reassignment. Kerry Rose talked about the future members coming to the PDG that would resolve this issue. Remains in “ side template.”

134 - Not discussed at this meeting.

135 - Mike Frank of Terminal had the IOU on this. He said that his information indicated that this had been changed. Wilson Riggan pointed out that the change – “ **c. If it is not possible to clear the POFZ or OCS prior to an aircraft reaching a point 2 miles from the runway threshold and the weather is less than described in subparas a or b above, issue traffic to the landing aircraft”** . was not what the recommendation had asked for and was basically of no use to the pilot. The original recommendation stated. - *Identify the point on the approach beyond which the TLS is no longer supported if the aircraft goes around due to an object infringing on the POFZ.*

- The identification of this point on approach must consider human factors data so as to allow for the communication of a “ go around” instruction and the pilot’ s reaction time for initiating the procedure. From our discussions with Flight Standards, we believe that point will be approximately one mile out on final.

- Once this point is identified, the FAA should develop procedures which will ensure that one of the following two actions occur:

- If an aircraft is outside the identified point on approach and an object (aircraft, vehicle, etc.) violates the POFZ, the controller issues “ go around” instructions to the aircraft on approach.

- Or, if an aircraft on approach has passed that point and an object violates the POFZ, the controller does not issue “ go around” instructions, but reverts to existing ILS Critical Area / Runway Incursion procedures.

- As this procedure may appear counter-intuitive, include a “ note” to the procedure In FAAO JO 7110.65 explaining the purpose of this change.

It was also brought up that this could enter a lengthy SMS process if needed. It was mentioned that if data were already there to support the POFZ that the SRM would probably not be needed.

136 – FAA AJT-22 to write up DCP which will include safety study and AFS-400 documents.

137 – Update provided prior to meeting and sent out in Pre-read. Mike Frank submitted proposed DCP for information only. DCP will be circulated through all appropriate reviewers for comment. APA concurs without comment.

138 – (Information provided in Pre-Read.) DCP has been submitted and a Safety analysis needs to be done; there were conflicts with Flight Standards Notice 8260.60. During the meeting, AFS coordinated with Flight Standards, and they approved the verbiage. Change will go forward; projected publication is Change 2, March 10, 2011.

139 – No discussion. Open, Deferred to Meeting #140

140 – Terminal request closure on this issue AFS has non-concurred.

141 – ATPAC will not close. AFS420 (Harry Hodges, Jessie Gains and Wilson Riggan) drafted this. It was initially a safety item. Bruce McGray will enlist Harry Hodges to find out difficulty with this item.

142 – NATCA AOPA second AOC 123-6 AOC awaiting feedback from AFS..

143 - AOC 123-6 Precision Obstacle Free Zone (Terminal)

Status: Terminal Recommend Closure #140. Bruce McGray Updated – See Pre-read AFS supports closure.

- Vote on closure. NATCA AOPA second AOC 123-6 **ATPAC #143 AOC CLOSED.**

AREA OF CONCERN 123-7

04/19/06

SAFETY: Yes

SUBJECT: Four Digit Express Carrier Call signs

DISCUSSION: Moderate to busy terminal facilities and en route sectors are experiencing an increasing problem with very similar sounding, 4-digit call signs with express carrier companies. Some carriers have been able to drop the first digit of the call sign when every flight number begins with the same first digit, but those carriers that use different banks of flight numbers cannot. The problem with these high concentrations of 4-digit call signs is frequent miscommunications due to the fact that all of the call signs look and sound somewhat alike. Example: SKY6845, SKW8845, SKW6885, SKW6485. Example: LOF8036, LOF8026, LOF8040, LFO8044. Example: TCF7744, TCF7444, TCF7774, TCF7770. Too often pilots reply to clearances intended for other aircraft due to the similar sounding call signs.

SUGGESTED ATPAC ACTION: There needs to be some encouragement by the FAA or the RAA/ATA to take into consideration the difficulties with communications with the concentration of similar sounding call signs nationwide. For the express carriers that have all of their flight numbers in the same " 1,000 bank" of numbers, they should be required to drop the first digit for ATC purposes. This could be done in coordination with flight dispatchers. For those express carriers that have flight numbers in different banks or series of numbers, an option would be to replace the first 2 digits with a single letter at the end of the call sign. Example: SKW6845 would be SKW45G, SKW6485 would be SKW85H, SKW8885 would be SKW85G, etc. Assign a single letter to the first 2 number combinations in a flight number so that it is consistent nationwide. SKW6845 would be SKW45G just as COM6845 would be COM45G. Inconsistency between different carriers would be very difficult to manage.

123 - Can a working group in the PARC address this? The DCP (Pilot Controller Phraseology) subgroup may have human factors information or other input. (Contact is RNAV shop). CDM may also be another possibility for working the issue with AFS involvement.

124 - ATO-S will be queried to determine if sufficient human factors studies exist to warrant a recommendation through appropriate channels to request 3-digit call signs be utilized vice 4-digit. NASA also expressed concurrence with the AOC and the need for action. The committee will consider asking the CDM group to address this item.

125 - Due to insufficient time for the appropriate discussions this AOC will be further deferred until 126.

126 - This item was discussed and decided that further information gathering was appropriate.

127 - A memo will be written outlining this AOC and presented to ATO-T.

128 - The ATPAC recommendation memo was approved by consensus and will be submitted to ATO-T with Wilson' s signature.

129 - A written recommendation was presented to Rich Jehlen for consideration of ATPAC' s recommendations.

130 - A formal request will be made to ATO-T for action.

131 - The memorandum below was presented to ATO-T for their action that represented ATPAC' s position.

The Air Traffic Procedures Advisory Committee (ATPAC) has identified a potential problem in the use of four-digit calls signs used primarily by Air Taxi operators at busy hub airports. These operators are generally in support of legacy carriers and therefore, in order to maintain schedule delivery integrity, operate in close time proximity and with air carrier peak times. This actual and increasing potential for error, in the committee' s consensus, should be corrected to protect both aircraft and controllers.

ATPAC requests you initiate action to ensure this potential problem area is addressed. The committee recommends that this may be accomplished through coordination with the appropriate airlines and supported

by an MBI in the form of Computer Based Instruction or an Air Traffic Bulletin to emphasize to ATC personnel.

RECOMMENDATION #1: FAA investigates solutions through appropriate channels.

RECOMMENDATION #2: Action should be initiated to investigate and remedy.

132 – ATO-T does not agree that this item is an issue. The Chairperson will write to ATA and RAA explaining the problem and invite their comment and participation in Mtg #133. Mr. Hartmann will check his database on call-sign confusion and email results to Ms. Rose

133 - Disagreement on this issue whether to pursue (from an ATO standpoint) or cancel the AOC because it is the opinion stated by Terminal that sufficient safeguards are currently in place to mitigate. Mr. Scott Foose spoke on his background and the issue.

Four Digit numbers are more common today. Anecdotally, confusion between controllers/pilots exists. He suggested ATPAC continue to raise awareness. He asked for recommendations to return to his members. Scott Casoni restated that Terminal does not need to change anything. Sabra Morgan asked for more quantifiable data prior to changing anything. Danny Aguerre-Bennett says this kind of data is not recordable. Sabra Morgan asked if this is systemic and not local. Larry Newman asked if the FAA could research this? Rich Jehlen asked “ how can I capture this data?” Harvey Hartmann will check his database on call sign-confusion and email results to Kerry Rose (search on “ hear-back/read-back) (ASIAS, Aviation Safety Information Analysis and Sharing). Scott Casoni to check with Safety and ADS for data.

134 - No change in status from Terminal. Harvey went through his database and mentioned some examples. EUROCONTROL is working with this issue presently. Harvey Hartmann (NASA) to send soft copy of *Similar Sounding Call Signs Report*. Kerry Rose (PDG) to find out from Human Factors on cognitive similarity.

135 - It was decided that Wilson Riggan would lead a group of ATPAC volunteers to include Bob Lamond in determining questions/study areas and/or issues that Human Factors would look at. These issues, questions would then be presented to the Agency’ s’ Human Factors group to do a study.

136 – NASA and APA members stated Runway Safety has enlisted a Human Factors (HF) study on this issue and they will work on setting up a brief to ATPAC next meeting on the findings. This issue can be closed once the HF study is completed.

137 – NASA provided a status at the meeting. Nothing has been written at this point. The situation creates an annoyance and a difficulty, but there have been no formal reports of problems. The Executive Director stated that the issue with dealing with the problem is that no one can articulate/define the problem and requested that NASA do so.

138 – Dr. Kim Cardosi provided a briefing to the members. Group discussed several options: dropping the first digit to make it a 3-digit call sign; adding a letter; and harmonizing with ICAO by reading digits singly. The group discussed if assisting in this matter is within the scope of the committee; the result was possibly closing this AOC and making it a recurring agenda item.

139 – (Information provided in Pre-Brief). Letter mailed to ATO COO in July and requests sent to AJE and AJT for the status of training development. It was suggested that AJL be responsible for this development. AJL advised that this is a concern of the Partnership for Safety effort Randy Babbitt launched on July 1, 2010. The ATPAC Chairman and attended the meeting on August 17th. Several possible resolutions were discussed, including changing to an alpha-numeric system and/or forcing the air carriers/regional’ s to change the marketing strategy to prevent confusion. It was also suggest that controllers state all call sign digits in individual form. This was well received by all in attendance since it’ s the ICAO format, but Dr. Kim Cardosi stated that she would not like to see the ability to use group form taken away from the controllers and that while doing this will help, it would bring new issues of transposing numbers. Training was also a suggestion and made the final cut. From AJL - The communications subgroup met again today and this issue is one that they are addressing. We (AJL) are on the hook to develop controller training around such items as hear back/read back and like call signs. We will

stress the option to read call signs in single digits when there is any cause for confusion. The safety group will continue to look at feasibility of adapting ICAO standards for this issue but there is spotty support at this time. Also, safety is about to release the last DVD in the back to basics curriculum entitled "Back to Basics -- Clear Communications" ...this series has been very successful and this last release addresses this issue well.

(At meeting) Chairman advised again about the Partnership for Safety; her understanding that the group was to come up with solutions, but they weren't implementing anything as an entity—the members were to take back the information to their respective organizations. Executive Director asked what the group would like to do—go forward with a long-term solution? Drop the issue and let others take care of it? He stated that it is an industry-wide problem requiring a long-term solution (vs short-term solutions that have come out of the Partnership for Safety). The Delta representative recommended writing a letter to the Administrator advising him that this cannot be solved from an air traffic or pilot perspective—the airlines need to be involved as they are the ones that created the issue. The ATCA representative reminded group that ATPAC is the Administrator's advisory committee, so it is our duty to facilitate the change. The Chairman suggests waiting to see what comes of the Partnership for Safety's efforts before deciding on a course of action.

CURRENT STATUS: Open

ACTION ITEM: Group to think of 2 top action items to be done concerning this issue; NASA will reach out to NTSB; Chair will clarify with VP of Safety what the ultimate objective of the Partnership for Safety is. Link to be sent to members for Eurocontrol Callsign similarity website.

140 - This is a concern of the Partnership for Safety effort Randy Babbitt launched on July 1, 2010.

Action: AJL is developing controller training around the "hear back/read back" and like call signs. They will stress the option to read call signs in single digits when there is any cause for confusion.

Action complete.

Action: The safety group will continue to look at feasibility of adapting ICAO standards for this issue. Safety is getting ready to release the last DVD in the back to basics curriculum entitled "Back to Basics – Clear Communications". **Status Update:** The Back to Basics DVD should be out to the field by the beginning of March. It is in final review now. Action complete

Action: The Chairman suggested waiting to see what comes of the Partnership for Safety's efforts before deciding on a course of action. The ATPAC group was also tasked to come up with 2 top action items to be done concerning this issue. NASA will reach out to NTSB, Chair will clarify with Bob Tarter what the ultimate objective of Partnership for Safety is. **Status Update:** Chair sent letter out and got no response as of yet. **Danny to get copy of letter to Kerry, to give to Dennis to follow up with upper management. Danny to follow up with Kim re: status of initiative with partnership for safety**

Action: Link was sent to members for Eurocontrol Callsign similarity website.

Status Update: More information about the EUROCONTROL Call Sign Similarity service can be found at: http://www.cfmu.eurocontrol.int/cfmu/public/standard_page/cfmu_programmes_css.html **This item will be closed.**

141 – All Actions complete. AOC Closed. Kim Cardosi will be asked to brief at ATPAC #142 on human factor study.

142 - Kim Cardosi Report Human factors Study - working with UAL but with merger they have been set back to square one and further set back with changes to safety office. ATSAP reports have increased on this – industry has to make changes. FAA going to AJE Tiger Team to develop plan of action – **Moved to Re occurring Agenda.**

143 - AOC 123-7 Four Digit Express Carrier Call Signs - Kim Cardousi reported to ATPAC chair issues continue. ATPAC chair stated issue discussed at PFS. She will get a full report for ATPAC #144.

AREA OF CONCERN 125-4

10/24/06

SAFETY: No

SUBJECT: Confusion on Descent during Non-Precision Approaches

DISCUSSION: Discussion was primarily concerning possible misunderstandings when the pilot was not given definitive altitude guidance in relation to a published segment of a non-precision approach.

SUGGESTED ATPAC ACTION: Obtain clarification of the question and collect data regarding this issue. Tom Barclay, NASA ASRS, will provide data for dissemination and further discussion at 126.

126 - Discussion with visitor Jeff Williams concluded that a fix on the published approach must be utilized and in the aircraft database. Steve Alogna will obtain data on recurrent training for controllers regarding IAP and report at 127.

127 - This item was not discussed due to insufficient time.

128 - This item was not discussed due to insufficient time.

129 - ATPAC discussion highlighted the incomplete information available to pilots on charts for IFR approaches when a defined point for descent is unclear and not fully understood by the pilot/controller communities.

130 - Discussions with ATO-T found that recurrent training is available for terminal controllers regarding approaches and that according to the .65 the controller in the Naples incident complied with the requirements regarding instructions to maintain a safe altitude until “ established.” Therefore, further discussion will be needed to determine if this AOC meets the charter’ s criteria for continued efforts or does not rise to the level of being a pilot education issue or having implications in the entire NAS.

131 - Discussion concluded that this item did in fact rise to a systemic issue that deserved to be addressed in an MBI for controllers and pilot education regarding approaches to airports with non-precision approaches.

RECOMMENDATION: ATPAC recommends an MBI designed to clarify controller responsibility when issuing approach clearances at airports with non-precision approaches and the importance of accurate altitude information.

132 - ATB to be conducted and SO if possible. Mr. McGray will check special emphasis items for next cycle and get data related to this issue. Mr. Casoni will obtain copy of ATB for committee’ s review.

133 - ATB to be conducted and SO, MBI if possible. Scott Casoni says it is still being reviewed by the manager but will be finalized by next meeting. Mr. McGray recommends better wording in the AIM and Instrument Procedures Handbook (emphasis on pilot responsibilities). *Scott Casoni will obtain copy of ATB for committee’ s review.* After everyone reads by next meeting then this item can close.

134 - Mr. Casoni from Terminal talked about a training issue and no mandatory briefing item (MBI) should be pursued. Terminal worked on the MBI and decided not to proceed. Harvey Hartmann says that Terminal and Enroute do not participate in telecons pertaining to this item. Scott Casoni to readdress “ maintain altitude” issue with Terminal. Harvey Hartmann (NASA) and Scott Casoni (Terminal) to draft problem package to redefine this issue.

135 - It was suggested that Terminal would put out training regarding this issue, but Terminal ended up deciding not to. A group consisting of Mark Cato, Bruce McGray, Claire Kultgen, and Andy Brand took an action to write up a definition of what is meant by “ established on approach” and also “ established in hold” . Mike Frank from terminal took the action to investigate if the current phraseology is being complied with by the controllers and will return to the next meeting with a proposal if a training initiative is needed. Harvey Hartmann will send out all pertinent info that he has on this AOC to Mike Frank and the group.

136 – Part 1 – AJT-22 stated that in ASRS provided, pilots stated they started descent too soon. There were no reports in ATSAP on this issue. It has been decided that additional training is not needed.

Part 2 – AFS-400 shared some definitions of what is meant by “ established on approach,” “ established in hold” and “ cleared for approach.” These were well received as it was mentioned this is the first time that they had actually seen them written out. AFS-400 mentioned that some of these are “ lost” or embedded in the 91.175. They also recommended that the FAA adopt the ICAO definition for “ approach” since FAA has none.

A question was asked if pilots understand what “ published segments” means. There appears to be a need to send out information for educational purposes. AJT-22 added that they also may need an Air Traffic Bulletin or Mandatory Briefing Item ATB/MBI to controllers; for example, if vectoring at MVA, A/C can not turn on approach if they are below altitude of approach segment.

137 – Part 2 – AFS-400 provided sheets with definitions of “ establish on approach,” “ establish in holding,” and “ cleared for approach.”

138 – AFS handed out copies of definitions for “ established on approach,” “ established in holding,” and “ cleared for approach” . No comments were received back when AFS sent out the definitions to the volunteer group.

139 – Deferred to next meeting as AFS was not present and has not provided an update. Part 2 – Open, Deferred to Meeting #140. Part 2 – AFS to provide update #140.

140 – AFS was not present. Part 2 – AFS stated definitions would go to publication #141.

141 - Deferred to ATPAC #143, publication 02/09/12. (Bruce McGray).

142 - Deferred to ATPAC #143, publication 02/09/12. (Bruce McGray).

143 - AOC 125-4 – Confusion on Descent during Non-Precision Approaches Definitions of "established on approach", Established in holding", and "cleared for approach" to be submitted by ED of ATPAC to PDG for publication in the P/C glossary. 7110.65U due out 02/09/12 **deferred until ATPAC #143. (Bruce McGray) AIM PUBLISHED 2/2012 CLOSED**

AREA OF CONCERN 126-2

01/09/07

SAFETY: No

SUBJECT: Procedures for Use of Time to Meet Restrictions

DISCUSSION: The committee looked at current regulations that mandate the controller must issue the clock time to the restricted aircraft and the time the aircraft must comply with the given restriction.

128 - The committee discussed the AOC with its submitter, Mr. Bill Holtzman from ZDC. The discussion centered around the need for a time hack when issuing a time based restriction. It was agreed that no change would be appropriate in the oceanic or non-radar environs but that omission of the additional verbiage in a radar environment would reduce controller transmissions, pilot misunderstandings, and add clarity.

129 - David Young advised that several versions of proposed DCPs have been presented to his management for their consideration.

130 - David Young's organization would not concur on ATPAC recommendation based on what may have been incomplete information. David Young will re-address the issue based on ATPAC feedback and report at #131.

131 - A memo will be written and addressed to ATO-E for their review that outlines the committee's recommendation.

RECOMMENDATION: ATPAC opined that giving the aircraft a time to reach/leave an altitude followed by the minutes needed to achieve would suffice and not complicating the issue with clock time.

ATPAC RECOMMENDATION TO ATO-E REGARDING PROCEDURES FOR USE OF TIME TO MEET RESTRICTIONS. ATPAC AREA OF CONCERN (AOC) 126-2.

First, the committee would like to address some of the misconceptions about this proposal. Arguments have been heard about whether or not it is reliable control technique to use computer-generated, predictive "vector lines" to evaluate the time till routes cross. Similarly, arguments have been heard about whether it is employing "positive control" at all to issue an altitude crossing restriction which might in any way seem close to the capability of the aircraft. While we think of those situations more in a climb situation than a descent, similar risks exist in both. The Committee makes no effort to insert itself into the evaluation of how one might "ensure" positive control in such a situation. It is a moot point to consider those issues anyway, based on the fact that there is already such a clearance provided for in the 7110.65.

Also, it is important to note that the above arguments exist without regard to the verbiage one uses with which to refer to the clearance limit time by which we instruct the aircraft to achieve the required altitude. Those arguments apply as surely with our current phraseology as they would with that which is proposed. There is no additional control inherent in one description of a time event over that inherent in any other way of describing that same time.

Separately and distinct from the above issues, the Committee chooses to address the situation of how to describe it once the decision has been made to clear an aircraft to achieve an altitude by a particular moment in time. Such a moment can be described in a number of ways, two of which are: referring to a specific time on the controller's clock on the one hand ("Climb to reach FL350 by 1525Z; time now 1522 and three quarters"), and on the other hand, referring to the passage of a specific period of time after a radio transmission ("Climb to reach FL 350 in two minutes").

The Committee believes that the benefits of the proposed version of a time description include: eliminating the need for UTC references, eliminating the excess verbiage created by the time check, and eliminating the mental math required on the part of the controller in order to compute the time limit and on the part of the pilot in order to evaluate, then record and/or remember the difference between the airplane's clock and the controller's clock and to continue to apply that difference for the length of time it takes to achieve the

altitude. The proposed phraseology would provide additional accuracy by replacing the relatively coarse units of a quarter minute with the accuracy with which one can read a sweep second hand (which is required equipment on all IFR aircraft).

The Committee also wishes to note that the proposed time description is already in relatively common use in the field, despite its variance from the currently-prescribed phraseology. Thus the proposed phraseology is, much to the chagrin of some, well-tested. While never valid as a reason to approve an idea, the fact that it has been in use already for a long time has provided an opportunity to uncover unanticipated problems. The Committee was not able to identify any.

Committee Recommendation: ATPAC recommends that the phraseology change in this proposal would be a positive one which would improve the precision of a control clearance, reduce the verbiage necessary to issue the clearance, make it easier for the controller to describe to the pilot, and make compliance easier for the pilot, both in understanding and in its accomplishment.

132 - ATO-R will be invited to brief at Mtg #133

133 - This issue will be addressed pending staffing increases in the PDG.

134 - The following was provided by En Route prior to the meeting: “ The initial DCP for this should be written in the next two weeks.” Kerry Rose (PDG) to provide completed DCP or update.

135 - Not discussed at this meeting. Update provided by Don Kemp prior to meeting and sent out in Pre-read – Preliminary DCPs have been written to change FAAO JO 7110.65 paragraph 4-5-7, AIM Paragraph 4-4-10, Adherence to Clearance, and AIP Paragraph ENR 1.1- 31, Adherence to Clearance. These changes have been sent to En Route SOS for review and approval before being sent out for comment. Research is also being done on the ICAO differences in Document 4444. Estimated publication change in the FAAO JO 7110.65, AIM, and AIP is February 11, 2010.

136 - Not discussed at this meeting. Update provided by AJR before meeting and sent out in Pre-read briefing – En Route SOS (AJE-31) is still making revisions to the proposed change. Estimated publication of change in FAA Order JO 7110.65, AIM, and AIP has been pushed back until July 29, 2010.

137 - Not discussed at this meeting. Estimated publication of change in FAA Order JO 7110.65, AIM, and AIP has been pushed back until March 10, 2011. Copy of initial DCP given out at meeting for members’ review.

138 - Not discussed at this meeting. Publication anticipated in Change 2, March 10, 2011.

139 - Not discussed at this meeting. Publication anticipated August 25, 2011.

140 - Deferred to Meeting #142

141 - DCP is to change phraseology in 7110.65, The current phraseology is cumbersome. All LOB’ s signed off. David Boone, AJS non-concurred he wanted a new SRMD panel to be held. He said the DCP dealt with separation issues and needed a full SRMD not a SRMDM. He stated he had QA data to back up his statement.

142 - Time to Climb Safety Panel meeting was less than successful. Danny Augerre, ATPAC Chairman; Andy Brand Alpha, Senior UAL Pilot and Ben Rich, Senior Pilot attended for ATPAC at their companies expense. En Route sent Larry Green who wrote the original SRMDM to rewrite the SRMD. David Boone did not attend. His representative, Mike Faltsek, did not have any data and was not prepared to address the issue. Since 1983 they have been trying to change the phraseology for Time to Climb. Safety’ s statement of an increase risk was not proven. Danny will email D. Boone.

143 - AOC-126-2 Procedures for Use of Time to Climb/Meet Restrictions. D. Boone contacted Gary Norek and requested all AJV and ATPAC historical records. He stated he was directing Miter to do a study and collect data for a new Safety Panel to review DCP. ATPAC Chair stated she would contact D. Boone at end of month to get status.

AREA OF CONCERN 136-1

10/07/09

SAFETY: No

SUBJECT: Ambiguity on pilot actions during windshear conditions

DISCUSSION:

136 - APA stated that an issue in MCO showed the ambiguity on what exactly a pilot will do in known/forecasted windshear conditions. Much like a TCAS alert, the A/C will take no other control instructions when they are in a windshear alert "escape" maneuver other than what they feel necessary to get themselves out of the situation. Once they are out of the situation, they can then continue to follow control instructions. Apparently, this is not understood by controllers who expect the A/C to execute either the published missed approach or follow their control instructions. There was a suggestion to add phraseology to FAA Order JO 7110.65 to emphasize the pilot's urgency when escaping a windshear event. They would state "windshear recovery" as opposed to "go-around."

137 - AJT-22 to write up DCP. ALPA representative requested to send copy of initial problem description to AJR-53 and AJT-22.

138 – DCPs for FAA Order 7110.65 and the PCG were sent out for initial coordination on April 19, 2010, and comments are due back by May 19, 2010. Members discussed issues with subparagraph c3, but the verbiage was lifted straight from TCAS. Members also agreed that the definition should be "technologically neutral" to allow for any type of windshear notifications that an aircraft may have. There was also discussion as to whether this should be considered an "emergency" situation.

139 – DCP for 7110.65 paragraph 3-1-8 and PCG and associated notice are out for Vice President review. Suspense is 10/19/2010. Terminal representative briefed the group and informed that the DCPs were receiving resistance because stakeholders are viewing the change as procedural changes rather than as the intention to standardize phraseology. Some concerns were raised that the appropriate parties were not coordinated with, but the coordination sheets showed that all proper entities had had the opportunity to comment. Terminal will put out a mandatory briefing item (MBI) memo for the interim. NASA will check database for windshear go-around reports. Chair will check ATSAP reports.

140 - Action: Terminal will put out a mandatory briefing item (MBI) memo for the interim

Status Update: No update. **Action:** NASA will check database for windshear go-around reports.

Status Update: Harvey Hartmann will bring information to the meeting. **Action:** Chair will check ATSAP reports for any instances of windshear escape maneuvers. **Status Update:** Danny is working on this information and will have information for the meeting. **Discussion:** Safety non-concurred with DCP, sent it back to Terminal, they want to see an SRMD.

141 - Deferred to ATPAC #143. Date will be moved to 7110.65U due out 02/09/12. MBI will not be distributed by Terminal. (Bob Law); Article in ATB Bulletin in lieu of MBI (Gary Norek).

143 - AOC 136-1 Ambiguity on pilot actions during windshear conditions

Action: DCP's to address pilot/controller action on encountering a windshear condition. (Bob Law) **Status Update:** This notice and DCP is final. The notice is out on the FAA website and has been for quite awhile.

Published in 7110.65 T. Action: Terminal will put out a mandatory briefing item (MBI) memo for the interim. (Bob Law) **Status Update:** Terminal looked quickly through the case files for TSOS (AJT-24) and cannot find an MBI that we issued for AOC 136-1. (Gary Norek) Would it still be required seeing the notice/DCP is now available to controllers? Flight Standards need to ensure that airlines use the agreed upon phraseology. ATPAC requests training for CPCs. AOC 136-1 Ambiguity on pilot actions during windshear conditions - Bob Law reopen need for MBI request. AOC 136-1 Ambiguity on pilot actions during windshear conditions - AFS Bruce –

need SAFO AFS-200 out to all airlines on windshear. AOC 136-1 MAPCOG see if can work to harmonize with ICAO, AIM & AIP. AOC 136-1 Marc Gillman statement to for pilot's training. ATB Windshear article to be completed. (Gary Norek). **ATPAC #143 Published in Feb 2012 ATB CLOSED**

AREA OF CONCERN 137-1

01/13/09

SAFETY: No

SUBJECT: Minimum fuel advisory

DISCUSSION: IPA representative brought to the members' attention an Anchorage-Louisville flight that ran low on fuel because they had to circle a long time; they were later told that had they declared "Minimum fuel," they might have received priority from ATC. The concern is that pilots are being too conservative with fuel and using this declaration to get priority—it raises the question that if they are receiving priority when declaring "minimum fuel," what is the difference between that and declaring an "emergency." The Executive Director pointed out that perhaps the issue is that the definition of "undue delay" (JO 7110.65, para 2-1-8) is unclear. PDG representative suggested providing examples of undue delays, but due to the many circumstances, it would be impossible to provide a list that would be beneficial. The members moved to add this as an AOC.

138 – Discussion surrounded what declaring "minimum fuel" meant to ATC and to pilots as well as what each should expect upon this advisory. Topics of discussion included: not declaring it if there was enough fuel to reach the alternate destination; asking pilots to state how many air miles are left; assigning a certain amount of flying time to this statement. ADF suggested adding the verbiage to the definition that means that a pilot cannot accept other than already-stated instructions/clearances OR what is currently normal for that airport at that time. AFS-200 had drafted an Advisory Circular, Fuel Planning and Management, in 1993, but it was never published.

139 – Advisory Circular, Performance-based Fuel Planning, sent as an attachment to Pre Read. ADF member sent the following: "A minimum fuel declaration should be made when the usable fuel on board an aircraft reaches the point where the pilot can comply with the current clearance, charted or expected normal approach and land safely but can NOT accept any additional delay or maneuvering, and NO other option remains to avoid a minimum fuel condition." (At the meeting) AFS advised that four airlines are experimenting with the conditions in the AC. There is a meeting November 1 with ICAO to discuss harmonization, and the draft AC will go out for coordination and be published in the next 6 months. It was discussed that there doesn't seem to be a solution from an air traffic control standpoint—only working with airlines will produce a resolution. NASA and others proposed to remove the "minimum fuel" option altogether and only allow an emergency be declared; in turn, the FAA would need to not come down as harshly on flightcrew when they declare "emergency." It was suggested by others that when "minimum fuel" is declared, that a dialogue between pilot and ATC be opened, possibly to state a more specific fuel status. It was tentatively agreed that the phrase, "Common sense and good judgment will determine the extent of assistance to be given in minimum fuel situations" be removed from the note in para 2-1-8. However, this will wait until after further information is gathered.

CURRENT STATUS: Open

ACTION ITEM: PDG will check ICAO's minimum fuel requirements and procedures (this will get sent to the group). The chair will look for ATSAP reports of emergency fuel while NASA/ASRS will look at ASRS reports.

140 - Recommendation: 2.1.8 min fuel. Clean up the note. Add "if able notify the pilot of any delays". Possibly change "undue" to "additional" and/or "unplanned" delays. Delete: "Common sense and good judgment....." *IOU to Kerry to draft DCP change for this paragraph. Additionally for 'awareness' training for both pilots and controllers Danny will take to "partnership for safety" group.

141 - DCP 7110.65 Para to delete "common sense and good judgment will determine". (J Graver, AJV-11) Deferred to ATPAC #143, publication 02/09/12.

142 - ATB Windshear article to be completed. Flight Standards need to ensure that airlines use the agreed upon phraseology. ATPAC requests training for CPCs.

1. AOC 136-1 Ambiguity on pilot actions during windshear conditions - Bob Law reopen need for MBI request.
2. AOC 136-1 Ambiguity on pilot actions during windshear conditions - AFS Bruce – need SAFO AFS-200 out to all airlines on windshear.
3. AOC 136-1 MAPCOG see if can work to harmonize with ICAO, AIM & AIP.
4. AOC 136-1 Marc Gillman statement to for pilot's training.

143 – ATB Published 2/2012 CLOSED

AREA OF CONCERN 141-1

06/21/11

SAFETY: No

SUBJECT: Runway Guard Lights (RGL)

DISCUSSION: 141 –Doug Thomas, IPA presented new AOC. Bruce McGray, AFS-410 spoke of the inconsistent use of equipment. AFS-410 wants more specific feedback. Bruce will coordinate with Airports group to come to next meeting, Danny will extend invitation. All groups request feedback from membership. There was a motion to accept and seconded. ATPAC will request information from their member groups on this issue. Status: Airport Rep invited. Power point presentation

AIM does not have A380 only runway markings ALPHA set to AFS-420 SFO, IAD, SEA Bruce McGray asked Airports about these issues and provided answers to Doug Thomas Louisville Airport misuse of airport markings and the A380 markings. Issues will be further discussed at ATPAC #142 in October. Bruce will forward name of Airports SME to Danny who will invite Airports to discuss issues. Airports showed for morning but did not stay for the rest of the meeting. Agenda item was deferred until ATPAC #143

142 - Power point briefing. (Bruce McGray Philip Saenger) Harvey Hartmann will check data base on reports on airport markings and lights. AFS will check to see if any FSDO violations. Marc Gillian is attending a meeting with IAD will get feedback on airport marking and lights.

143 - AOC 141-1 Runway Guard Lights (RGL) Doug Thoman, IPA presented new AOC. Bruce McGray, AFS-410 spoke of the inconsistent use of equipment. ATPAC # 143 Status Update: Marc Gillman met with IAD did not find any issues with airport markings any longer. Harvey Hartmann checked data base for any write up on airport markings (see attached). Bruce McGray checked FSDO database no reports. IPA stated still issue at SDF. Gary stated he would take direct action on this. Doug Thoman again brought up SDF issue, Gary Norek said he would take an action item on this. Bruce McGray discussed some other issues such as Detroit re-wiring. Some 80 plus airports have issues.

Guests from Runway Safety WG Herb Kind and Meigs discussed focus of their group. Stated some Terminals have very well written SOPs regarding control instruction and they hope to get all airports to follow this standard. But may only be a short term fix. Bruce McGray ALPA stated old rules for training of pilots, ‘ you never cross double yellow line and don’ t cross red ever ‘ without clearance and now they are breaking these rules with the new airport markings.

AREA OF CONCERN 141-2

06/21/11

SAFETY: No

SUBJECT: Cancellation of Takeoff Clearance “Phraseology”

DISCUSSION: During a recent data search for information regarding “Rejected Take-off” reports identifying user confusion with the subject phraseology surfaced. 7110.65 para 3-9-10. A draft definition to be written and presented to FAA for coordination. Status: Members to ask their constituents about issue.

142 - During a recent data search for information regarding “ Rejected Take-off” reports identifying user confusion with the subject phraseology surfaced. 7110.65 para 3-9-10. A draft definition to be written and presented to FAA for coordination. Status: Members to ask their constituents about issue. Call sign “ Abort, Abort, Abort “ ,“ Safety Alert” ,” Stop Immediately” . Recommendation: Needs a sense of emergency with that phraseology.

- FAA human factors should solve this. Contact Human Factors
- Look in 7110.65 “ Abort” history why it was changed.
- Use ICAO Phraseology.
 - Contact Wilson, ALPHA, AOPA what their members think?

143 - AOC 141-2 Cancellation of Takeoff Clearance “Phraseology” During a recent data search for information regarding “Rejected Take-off” reports identifying user confusion with the subject phraseology surfaced. 7110.65 para 3-9-10. A draft definition to be written and presented to FAA for coordination. Status: Members to ask their constituents about issue. Call sign “Abort, Abort, Abort “, “Safety Alert”,” Stop Immediately”. Recommendation: Needs a sense of emergency with that phraseology. Look in 7110.65 “Abort” phraseology history and reason it was changed, Use ICAO Phraseology, Contact Wilson, ALPHA, AOPA for member thoughts? ATPAC #143 All research completed and provided to ATPAC members in pre-read. Decision was human factors should solve this issue if it can be addressed. Moved by ALPA and seconded by NATCA **ATPAC #143 AOC CLOSED.**

AREA OF CONCERN 143-1

02/7/12

SAFETY: No

SUBJECT: Use of 'Descend Via [STAR] and maintain [altitude]' phraseology - NavCanada Bulletin.

DISCUSSION: ALPA submitted AOC 143-1 Use of 'Descend Via [STAR] and maintain [altitude]' phraseology in Nav Canada Bulletin. Nav Canada issued an ATC Information Bulletin on the important North American differences regarding SID and STAR altitude restrictions for new Canadian procedures that are to go into effect 9 February 2012. In the bulletin NAV Canada provides several exemplar clearances with their associated requirements. The area of concern is the second FAA example shown below: DESCEND VIA (STAR designator) AND MAINTAIN\ altitudes

ALPA's concern is that this phraseology is not discussed in the .65 or the AIM and in ALPA's opinion is incorrect/ misleading. First, we believe that the above phraseology does not conform to any of the 'descend via' examples in the .65 or the AIM. Secondly, since the introduction of the 'descend via' clearance pilots have been trained that when issued a 'descend via' clearance that they must comply with all restrictions of the STAR, unless issued an 'except' to that clearance. ALPA believes that the introduction of this bulletin may generate confusion among pilots and controllers. Even in the FAA's Mandatory Briefing Item 12-01, the FAA states that "if ATC assigns an altitude to the aircraft following a STAR, whether or not "DESCEND VIA" has been issued, any published altitude restrictions are cancelled unless reissued by ATC." This is not in line with the example of 'descend via' in the .65 or the AIM.

Some issues associated with this practice are:

1. If the 'descend via [STAR] and maintain [altitude]' is used, controllers can expect pilots who have not seen the bulletin to comply with the restrictions on the STAR until reaching the assigned altitude.
2. If the 'descend via [STAR] and maintain [altitude]' is used, controllers can expect pilots who have seen the bulletin to descend unrestricted to the assigned altitude.

SUGGESTED ATP AC ACTION: Discuss the subject and present a draft definition to the FAA for coordination.

RECOMMENDATION;

1. Ensure the phraseology contained in the example above is not used by controllers.
2. Reinforce to controllers that if there is no need for a pilot to comply with the altitudes on a STAR that the clearance should just be a 'descend and maintain' clearance.

Discussion: FAA contended not written by FAA and not in accordance with FAA directives. Nav Canada mistake. However other ATPAC members, NATCA and ALPA contended that CPCs may use this phraseology in error and need to be trained on new phraseology. ALPA moved to accept AOC and was seconded by NATCA.