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SAFETY AND TECHNOLOGY DEPARTMENT UPDATE

Week ending April 17, 2015

AIRSPACE: Jim Davis (PCT) is the lead for NATCA on Airspace Initiatives. Below are reports from Mr. Davis and various airspace team leads for NATCA.

- **Atlanta Metroplex**
 - **Week's Activities and Meeting Outcomes:**
 - Worked on Microsoft Project
 - Remaining Year OT evaluation
 - FY16 OT evaluation
 - SRMDM amendment meeting with A80 and ZTL
 - ESC Director Update Telcon
 - Discussed Q40 routings with ZTL and ZDC
 - Directional STARs Telcon with Delta
 - Leads Meeting
 - **Issues:**
 - A80 STARs (Platform) Training & Implementation (Summer 2015) – Postponed to Fall 2015
 - A80 Critical Staffing
 - **Milestone/Activity—Completions:**
 - ZTL has times 'on the glass' for ATL, expect to begin metering early June
 - **Projected Milestone/Activity Completions and Risks (next 30 days):**
 - Program Review, ESC OSG- April 20
 - Submitted by Joey Tinsley Atlanta Metroplex Co-Lead
- **Phoenix OAPM Design and Implementation**
 - Central Service Area for Quarterly Metroplex Leads Meeting – Fort Worth, Texas
 - Discussed Industry Participant's Roles and Responsibilities, on-line meeting capability, RNP cost / benefits, POC for international Air Carriers, Metroplex Handbook, and Approach / STAR connectivity
 - Received program office update and funding status
 - Metroplex Poplin Update
 - TBFM update
 - DataComm altitude/fix coding requirement
 - Counting Metroplex Procedures
 - Review the progress of Phoenix Metroplex with Mark Mckelligan (NATCA National Metroplex D&I Lead), Ed Husley (NATCA National Metroplex Study

- Lead), George Peurifoy (Metroplex D&I Manager) and Jeff Davis (MITRE Metroplex Lead)
- Phoenix Metroplex team completed I-SIM+ Scrub
- Mark Ostronic Phoenix Metroplex NATCA D&I Lead
- **Florida Metroplex week of 4/13/15**
 - Leads meeting in Fort Worth (Monday thru Thursday)
 - At American in Charlotte for weekend simulations with two Florida Metroplex team members.
 - Submitted by Greg Harris Article 48 Rep, Florida Metroplex
- **Denver Metroplex Design & Implementation**
 - **April 13 - 17, 2015 – Leads Meeting (Fort Worth Regional Office)**
 - Metroplex Staff Meeting
 - This week we met as a group in Ft Worth Texas to discuss the Metroplex Projects and Lessons Learned. We had detailed discussions with the Program Office about the status of our project.
 - Denver D&I Core Team will be traveling to Phoenix next week to observe their use of the ISIMs.
 - We plan to utilize the ISIM platform for our 8 vs. 16 scenarios later this summer.
 - Design work begins for Denver D&I in 2 weeks at ZDV.
 - No work was done this week with our facilities so I have nothing else to report.
 - **Upcoming Schedule**
 - April 20 to 24 – Core Team meeting in PHX to observe ISIM, Phoenix
 - April 27 to May 1 – 8 vs. 16 Design Work begins, ZDV
 - Submitted by Chris Thomas Article 48 Co-Lead Denver D&I
- **Charlotte Metroplex**
 - The Leads attended quarterly meeting. Contractors worked from home.
 - ZJX TELCON:
 - Clarified an airspace issue.
 - FAST Team has no issues at this point for the 10/15/15 Implementation
 - ZJX is to deliver training plan asap
 - TELCON with CLT OSF:
 - Tentatively scheduled a visit to CLT TRACON the week of July 13, 2015
 - The plan is to have all information to the OSF at least 90 days in advance of implementations
 - Metroplex Team to deliver TARGETS file ASAP
 - The Team will webex in advance of the July meeting to brief the scope of the project
 - Contractors worked via webex to resolve a CLT internal airspace issue

- The Team was advised of an MEA issue on the PARQR and FILPZ. This is the result of a criteria change. The group was able to make the appropriate changes to the procedure and re-submit. The implementation plan is not impacted
- Team Leads briefed the ESC Directors on the status of the Project
- Reviewed 10/15/15 ZTL automation changes and provided feedback
- Sent new OT forms to all facilities and coordinated with ZID for OT numbers for the rest of the fiscal year
- Performed various administrative functions
- **Issues:**
 - None noted
- **Upcoming:**
 - 4/20/15- At ZTL
 - 4/27/15 – At CLT
- Submitted by Bob Szymkiewicz, Charlotte Metroplex Team Lead
- **NorCal Metroplex**
 - Weekly NorCal Telcon cancelled – leads in Fort Worth, some team members on leave / unavailable (Wed)
 - Weekly National Metroplex Telcon cancelled due to leads at Staff Meeting (Wed)
 - Co-Leads in Fort Worth for Quarterly Staff Meeting. Reviewed Lessons Learned; HQ / PO Updates; site updates, budget / contracts review; magnetic variation discussion; TBFM discussion; PRM discussion; info re: speeds at a common waypoint shared by an IFP and STAR; discussed MEAs on RNAV STARs.
 - Core and POCs meeting at NCT next week. Agenda items include: outstanding LOA issues for Stage 5 Implementation; ZOA Area Pacific South status; Implementation Tracker update; review of Stage 5 Implementation Package; additional Industry outreach needs; flight plan filers follow up; status of all issues at the underlying towers; status of procedures in OKC; review KATFH.
 - Upcoming: Apr 21-23 Core and POCs Team Pre-Implementation Meeting (for Stage 5) @ NCT; April 30th Stage 5 Implementation; Stage 5 follow-up telcon scheduled for Mon, May 4th; May 5-6 Core and POCs meeting @ ZOA
 - Worked 2 Operational shifts for currency and staffing.
 - Submitted by Amanda Hodge Article 48 Rep, NorCal Metroplex
- **North Texas Metroplex/CSA PBN 04/12/15-04/18/15**
 - **Activities this week:**
 - Telcon with ZID to finalize Implementation support needed
 - Telcon with OKC to make final decisions concerning FEDRL and SEGLR waypoints
 - Metroplex Leads Meetings at Central Service Area, Fort Worth

- Telcon with ZFW, D10 and CSA concerning North Texas Project
- Telcon with AJV-14 concerning North Texas Project
- Attended 2 combined Team Briefings between D10 and ZFW concerning West Gate Departures and NW Corner Arrivals
- Continued coordination with ZID for Implementation Plans and System Impacts during the first few days/weeks of Implementation
- Pre-coordination with ZTL Training Department for visit later in April
- Continued support requested for ERAM ER 136427:ERAM capability to process SID Runway Transitions properly. Additional 17 slots scheduled with CSA FPT in October 2017 to return to original designs, pending ERAM ER.
- **Upcoming Activities:**
 - TARGETs Workshop...April 21-23---Washington DC
 - ZTL Training Department and Area SME Metroplex Training Meeting...April 27-28
 - ZID Implementation Support...April 29-May 2—Brent Luna will be at ZID, Phil Hargarten (S46) will be at M98
- Submitted by North Texas Metroplex/CSA PBN NATCA Art. 48, Brent Luna
- **Metroplex Study Team**
 - **Activities this week:**
 - Participated in weekly Metroplex staff telcon on Monday, April 6
 - Multiple telcons throughout the week with the Director of Airspace Services office and the Metroplex Program Office reference North Texas Metroplex post-implementation analysis and the possibility of putting a workgroup together to address some of the Mitre data analysis and industry concerns
 - Participated in Metroplex Staff meetings April 14-16 at the Central Service Center in Ft. Worth. Agenda items included Industry participants roles and responsibilities, Metroplex Handbook, OpsPlan, RNP procedures, online meeting capability, program office updates, and individual site updates
 - Telcon with Delta Airlines, Metroplex program office, Atlanta Metroplex Leads, and the DET/CLE Metroplex Leads concerning Delta's dispatch operations as it relates to the directional STARs being designed at both Metroplex sites. As of right now, Delta doesn't see an issue with the directional STARs. The telcon was held due to the fact American Airlines claims there are dispatch software issues with the directional STARs in North Texas
 - **Upcoming Activities:**
 - Metroplex Staff Meeting – Dallas – April 14-16, 2015
 - Phoenix Metroplex I-Sim – April 20-24, 2015
 - Denver Metroplex D&I Meetings – April 27-30, 2015
 - NAS NAV Strategy Workgroup – May 5-7, 2015
 - 7100.41 v.2 Re-Write Meetings – June 2-4, 2015

- Metroplex Leads Meeting – Seattle – August 11-13, 2015
 - Submitted by Metroplex Study Team Art. 48 Ed Hulse
- **National Design and Implementation Rep**
 - Attended Metroplex leads meeting in Dallas. Participated in team updates, National updates, team issues and concerns. The leads discussed at great length the need to increase the use and capabilities of TBFM through out the NAS. We also discussed team budgets and what is expected in FY 16, ISIM usage, HITLS and OMB schedules.
 - Participated on multiple telcons and meetings on N Texas post implementation
 - Participated on several telcons on NCT 4/30 implementation
 - Participated several telcons on criteria related issues.
 - Participated on a telcon with Natca Safety on how the OSG Co-leads will work with the ERC's during post implementation
 - Participated on a telcon about PHX post implementation
 - Submitted by Mark McKelligan (ZBW) National D&I Rep
- **NATCA National Airspace Rep**
 - Participated in the weekly telcon with the Deputy Director of Airspace Services Mr. Frank Black
 - Participated in the weekly telcon with the Mitre Airspace Lead Mr. John Brandt
 - Participated on multiple telcons concerning the N Texas post implementation
 - Participated on a telcon concerning the PHX post implementation
 - Coordinated with the NATCA LR department concerning the NAS NAV Strategy efforts
 - Submitted by Jim Davis (PCT) NATCA National Airspace Rep

COMMON AUTOMATION (CARTS): Mickey Vitti (N90) represents NATCA members on CARTS activities. Mr. Vitti's update for this week is below.

- April 13th, participated in a Chicago TRACON (C90) Final Monitor Aid (FMA) Requirements Finalization Telcon
- April 14th, participated in a Chicago TRACON FMA Telcon.
- Lockheed Martin is developing this tool for C90 with many target dates in the future. NATCA National and C90 NATCA will be involved in this initiative.

DATA COMM: Chad Geyer (ZLA) is the DataComm Article 48 Representative. Mr. Geyer's report to the membership is below.

- DataComm had several events that were ongoing this week.
 - Brian Dubois (BOS) and Ray Adams (EWR) were in BOI this week to train the controllers on the new Version 12 TDLS system and brief the new Automated

Clearance Order. Version 12 TDLS is the platform that the CPDLC functionality will run on. It also runs the new CHI for PDC.

- This new platform will increase the amount of facilities that will be able to run in Auto Mode. Auto Mode is used at about 6 facilities and it allows PDC messages to be sent without controller interaction.
- Ross Dickinson (MEM), Jon Risenmay (SLC) and Doug Nelson (SLC) were at the tech center to view the system that will be deployed at SLC. Last month when they came to the Tech Center, stability was an issue and it was decided that the system needed to improve prior to deployment.
 - This week the system had no issues with stability and other Problem Reports had been fixed. Training will begin at SLC next week for an April 27th turn on. With the help of the SLC team and the DataComm SME's, the system was determined to be acceptable for turn on.
 - The facility will have to mitigate some PTR's during the deployment, but they are manageable. The next step is to install the TDLS ERAM Direct connect (TEDC) on June 8th.

ENROUTE AUTOMATION MODERNIZATION (ERAM): Julio Henriques (ZNY) represents the NATCA membership in accordance with Article 48 as the ERAM Implementation Representative. Mr. Henriques has provided the report below for our membership.

- The National Packaging Team met on April 14th & 15th at the NATCA National Office to continue packaging fixes into future software builds.
- The Article 48 Workgroup met on April 14th and continued work on updating other workgroup charters to better reflect operating in a post ORD environment.
- A meeting was held on April 16th to discuss the status of EBUS and next steps to ensure an adequate functional replacement. The team discussed a set of basic functional needs ERAM would need to maintain in the event of a failure. The National User Team (NUT) will discuss what flight information is needed, as well as other possible flight data retention and recovery options.
- The following provides a synopsis of the weekly National User Team meeting:
- **ER 112239 ATSW Hold Data:**
 - The team discussed specific behaviors that needed clarification as part of preliminary engineering. The problem statements desired behavior asked for only AOR flights holding data to be shown in the view. As a result of the discussion this was further clarified to, only hold data while flights are controlled and entering the local AOR. More simply stated hold time shown in the view would only be for holds that occur while the local facility is controlling the flight. The issue will be engineered with the new clarified behavior.
- **ER 134565 Amendment of Safety Critical Data:**

- The team reached consensus on the problem statement that has a desired behavior of allowing amendments to always be made for specific safety critical flight plan fields. The problem statement will be sent to SLE once all team members concur. A use case will be completed for this ER.
- **ER 137481 International SIGMETS:**
 - The team reached consensus on the updated problem statement, the desired behavior was modified to specify how the International SIGMETS would be distributed. The problem statement will be sent to SLE once all team members concur.
- **ER 133412 CAATS FP Processing:**
 - The task team briefed the draft problem statement; it has a desired behavior of creating a notification on both the R and RA positions when specific flights penetrating CAATS airspace are on the wrong flight plan leg. The draft was distributed for review and will be discussed again next week.
- **ER 137981 Text File Schedule:**
 - The team reached consensus on the use case, which has a desired behavior of allowing text files to be scheduled for execution. The use case will be sent to SLE once all team members concur. Additionally the team changed the priority of this ER to a 1C.
- **ER 76146 GI Message Distribution:**
 - A simplified proposal for improving GI Messaging was discussed, it focuses on deletion behavior and sector combine and de-combine rules. The task team will review the proposal and bring their recommendation back to the full team for discussion.
- **ER 135633 Amending APRs:**
 - The task team is continuing work on the draft problem statement.

INTEGRATED DISPLAY SYSTEM REPLACEMENT (IDS-R): Richie Smith (N90) is the IDS-R Article 48 Representative. This project is also referred to as NIDS. Mr. Smith's report to the membership is next.

- An emergency release of the NIDS software is being built to correct some uncovered flaws. It seems that at the end of each month the operating system needs to be restarted because the change over between months causes an error. Also uncovered is the fact that corrected METAR sequences can be disregarded by the system because there is no time value change associated with a COR entry.
- The NIDS vendor, AWI, is working to find a solution to the FTI problems that are impacting SCT and I90. The program office has issued a "drop dead date" of June 10 for SCT. If the line cannot be fixed by then the SCT network will be postponed through the summer.

- The SCT database is not complete because some facilities have not forwarded all of the requested information to the engineers who are constructing the database. We need this database complete to test it as the first large TRACON database. This is not infer that NATCA wants SCT to go IOC with a less than perfect product but rather that we want to see it operate or fail so that we can bring the experience to the next facilities.
- It has been announced that two facilities with key site the next operating system build-BGR and PIT. This, of course, can change.

NAS VOICE SYSTEM (NVS): Jon Shedden (ZFW) is the Article 48 Representative to the NVS initiative. Mr. Shedden's update is below.

- **Meetings this week:**
 - NVS PTR (Program Technical Report) Review
 - NVS Human Factors Working Group
 - Flight Service Operational Change Working Group
 - NVS Tech Team Meeting
 - NVS Demo Configuration Control Board (CCB)
 - NVS Failure Modes and Effects Analysis (FMEA)
 - ZHU Key West Radio test update (Gulf of Mexico)
- **Other issues worked:**
 - Mr. Shedden visited PCT to discuss upcoming Voice Switch Bypass install
 - Call Transfer Functionality on NVS
 - NVS Training Mode and interaction with ATVoice product
 - NVS Split Mode and Voice Monitoring
 - Call Pickup for calls on hold
 - PTT All special function operation on NVS
- Mr. Shedden will be in Melbourne, FL (Harris Corp) all week 4/20 - 4/24.

PROJECT MANAGEMENT OFFICE (PMO): Jeff Woods (I90) represents the bargaining units in the PMO. Mr. Woods' update for this week is next.

- Attended weekly meeting with Dale Wright, James Keith and Mel Davis
- Attended monthly check-in meeting with Dale Wright, Tom Skyles (AJT), Kathy Heet (AJT), and Ron Singletary (AJT)
- Attended a meeting with Dale Wright, Terry Biggio (AJT), Joseph Teixeira (AJI) and Tom Skyles (AJT)
- Attended a meeting at Mitre with Mel Davis
- Attended a meeting with Dan Hart (Tech Ops) about the Resiliency Group
- Attended a meeting with Leo Eldridge (NavTech) about ILS Rationalization
- Attended a meeting with Jim Eck (AJM) about PMO projects

- Attended a meeting with Bruce DeCleene (AFS)
- Attended a meeting with Eric Owens (NATCA TBFM), Rebecca Guy (AJM), Steve Reynolds (AJM) and Bob Mount (AJM) about TBFM
- Attended a meeting about ILS Rationalization
- Attended a meeting at Airlines for America (A4A) with Paul Rinaldi
- Attended a meeting with Dale Wright, Mike Shrempp, Matt Tucker and Mel Davis
- Attended a meeting about AEFS with DSP

REQUIREMENTS (AJV-7): James Keith (D10) serves the NATCA membership as the Article 48 Representative to AJV-7. Mr. Keith forwarded the information below for the membership.

- This week Mr. Keith was at the safety committee annual meeting to provide a briefing on programs in AJV-7 requirements.
 - Mr. Keith did participate on several telcons this week.
- Attended weekly meeting with Dale Wright (S&T), Jeff Woods (PMO Rep) and Mel Davis (NextGen Rep) via phone.
- Attended weekly E-IDS meeting via phone.
- Attended meeting with VSATS/SAAB and tech hopes via phone.
- Attended bi-weekly remote tower teleconference via phone.
- Remote tower Ops Task force via phone.
- AJV-72 managers meeting.
- ERIDS to EIDS briefing to NATCA.

RNAV and PERFORMANCE BASED NAVIGATION (PBN): NATCA's work on RNAV and PBN is conducted in collaboration with NATCA's representative being Dennis Kelly (PHL). Mr. Kelly forwarded the report below for this week's update.

- **Climb Via Video** - This is part of the Joint Training Demonstration Project and is an effort to show the benefits of joint, collaborative pilot and air traffic controller training. This effort should clarify any ambiguity in current phraseology and procedures, and provide a repeatable reference for future use. The video to be produced will encompass a case study of SLC, S56 and ZLC in conjunction with Delta Airlines. For consistency, the demonstration focuses on the LEETZ Three RNAV Departure Procedure at Salt Lake City, which is used when the airport is in a south operation, requiring aircraft to make a climbing right turn after departure with built in altitude constraints. These turns and altitudes, incorporated during the collaborative design process, protect for terrain and assist in maintaining safe separation from arrival aircraft preparing to land. Additionally, the LEETZ Three has generated the majority of questions from aircrews about the specifics of the Climb Via procedure. This is a collaborative effort between FAA, NATCA and the contractor Tetra Tech. Time for filming is YTD.

- **DCA** The LAZIR5 RNAV SID continues to show good progress on a DP that comes very close to P56 airspace. So far, 2564 have used the procedure with 4 incursions.
- **MSP/M98/ZMP** – ZMP has reported that they will start issuing the runway transition on the descend via clearances on OPDs into M98 airspace. They previously been issuing what runway to expect, which was causing confusion for the pilots. Ironically DAL, had requested the expected runway. Delays, MIT and other spacing restrictions are decreasing and they are trying to establish the new normal.
- **NSPP** – Metroplex: LAX MAGVAR publication date has changed from Aug to TBD to go after the Metroplex project. NEW Metroplex Procedures: DFW adds 9 post implementation slots for 6/25/2015 publication cycle. DC makes numerous changes and add-ons including HEF, BWI, RIC, IAD, DCA and ADW airports. So Cal SMO Removes 2 RNP. FLA project has procedure placeholder dates starting 8/2017 through 12/2017. SIDs/STARs/RNP: PIT adds 4 up number STARs for 6/25/2015 publication cycle.
- **PARC VNAV** – We recently met to discuss establishing SID guidelines similar to the OPD guidelines. Some topics broached: How do you handle aircraft performance that can't handle the expectations of a procedure? Is there a minimum standard? (200 FT/NM, 300 FT/NM?). Pilots don't know what they are capable of for climb rate prior to departing. How do we handle 1 offs that can't make it? A climb rate of 500'/NM to 3000 feet is the standard but if the procedure has a turn, aircraft may not be able to make it. It was revealed that simulations are sometimes way off performance-wise compared to the real aircraft performance. Keep this in when users say they can or cannot do something. Ask for the data. The simulators are underperforming and SWA said they had to amend all their software to account for this. Gradient capability is impacted by many factors. Some are speed, weight, temperature, configuration, number or amount of turn(s).
- On the OPD side, we reviewed the angle from the STAR recommendation of 2-3 degrees. Some operators advised in headwinds that this may not be practical. AFS has expanded the angle from 2.0-3.11 for criteria in tailwinds. What about headwinds? 2.0-3.11 will cause partial power to be used in descent during heavy headwinds. Criteria mentions that there will be times that excessive winds (tailwind) will make it difficult for pilots sometimes and headwinds were never really considered. So, what is the angle acceptable for big headwinds? Different angles according to historical winds on each procedure? Do we have a big variance, say 2-5 or 6 degrees and use what fits what direction of flight. The tech pilot group is going to come up with a proposal.

- Attended meetings/telcons for NSPP, BIL Pre-Implementation, NATCA internal safety 3 day meetings, DCA LAZIR5, STAR order
- Mr. Kelly provided a file on the ACT ARC FPM recommendations to the FAA.

SURVEILLANCE and BROADCAST SERVICES (SBS) OFFICE: NATCA's representative in accordance with Article 48 in the SBS Office is Eric Labardini (ZHU). Below are reports from Mr. Labardini and members of the SBS Article 48 Team.

- **Eric Labardini (ZHU), National SBS Article 48 Rep**
 - ERAM ADS-B Only rollout continues. This week ZBW and ZOB started operational use bringing the total number of ERAM sites to 13 of 20. Participated in ADS-B Only telcons with ZBW and ZSE.
 - Terminal ADS-B Only rollout has begun with site telcons to coordinate acceptable start dates and explain the changes. Participated in the A90 ADS-B Only telcon with Craig Bielek.
 - SCT appears to be moving beyond their Fusion issues. This had been a concern in their transition from CARTS to STARS. Participated in the SCT FFG telcon this week.
 - Participated in a strategic GOMEX offshore platform meeting with ZHU. SBS hopes to identify which offshore platforms are more critical than others as ownership and platforms shutdowns continue to plague the ADS-B/RCAG/AWOS network established in the Gulf of Mexico. Cautioned SBS representatives that the opinions expressed were only those of ZHU and multiple other facilities needed to weigh in on the GOMEX configuration.
 - Development of an ERAM Ops Eval of fused display mode (Track Based) continues. Participated in scenario design discussions this week.
 - Discussed the possibility of fusion evaluations at N90 with Kevin Maney (NATCA N90). The site has been on hold for some time and is now the last major approach control not operating on ADS-B and Fusion. Time lines for a Fusion/ADS-B transition will likely be affected by their planned date of May 2016 to transition to STARS/TAMR.
 - Hawaii (HCF) ADS-B flight inspection plans were discussed this week. The remaining Radio stations continue to move forward, but one may not be ready in time for a July flight inspection.
 - Prepped the agenda for next week's SBS Article 48 meeting with my Agency Co-lead.
 - In addition, participated in the following telcons: SBS Implementation Team, Space Based ADS-B ConOps, SBS Weekly, MEARTS IOA, TFOS, NATCA GIM-S,

Agency Brief on DCPs, SBS Flight Inspection, ERAM/SBS, MEARTS, and NATCA SBS.

- **Craig Bielek (A90)**
 - Monday participated in weekly SBS Implementation and Status telcons
 - Tuesday participated in the Fusion Pre-op Telcon.
 - Wednesday participated in the SBS flight inspection telcon.
 - Thursday participated in the SCT Fusion Focus Group telcon. Participated in the A90 ADS-B Only Airspace telcon.
 - Friday participated in the NATCA SBS weekly telcon.
- **Randy Ezell (ORD)**, National Airport Surface Surveillance Capability (ASSC) Rep
 - Monday, SBS implementation telcon. SBS weekly team meeting. PIT ASSC restart telcon. ASDE-X tech refresh telcon. CVG restart telcon.
 - Tuesday, ASDE-X tech refresh risk board
 - Wednesday, Vehicle ADS-B telcon. CLE airport authority has signed a contract with Exelis for VMATs. Telcon to discuss discrepancy reports from OT.
 - Friday, ASSC leads telcon.
 - Still awaiting on Agency decision reference SMR.
- **Andrew Stachowiak (I90)**
 - Participated in SBS Weekly, TFOS, Fusion Pre-Op, P50 ADS-B only telcons

TERMINAL AUTOMATION MODERNIZATION REPLACEMENT (TAMR): Mitch Herrick (MIA) leads NATCA's efforts on TAMR as the Article 48 Representative. Below are reports from Mr. Herrick and various TAMR Team Leads.

- NATCA has a very special team working on the TAMR program and they all work extremely hard on our behalf. There is an amazing amount of work going on across the STARS/TAMR automation world. Our TAMR reps are doing an amazing job in all Phases and Segments. Our OSF brothers and sisters do incredible work with adaptation, our Transition SMEs are providing vital support to facilities during the strenuous time of switching over to STARS, our Segment and Phase Leads are engaged in all things related to STARS/TAMR, Segment 2 SMEs that attend the Site Surveys and help every ARTS IIE site get ready and plan for their STARS installation, our TAMR Reps in the facilities that will be receiving STARS work on the transition plan and tirelessly train and ready their facility to receive STARS, our SMEs that go to the Tech Center and Playdates at Raytheon comb through the software to ensure it's accuracy, our Surveillance Engineers ensure that the radar sources are functioning properly and the data is as good as it can be.
- **Section 804 PIA/SPI.** This week Mr. Herrick travelled to Chicago (C90), Springfield, IL (SPI), Peoria, IL (PIA), and St Louis (T75) with the Section 804 team that included Don Chapman (PHL) and Bob Aitken (Region X) as well as the 804/Facility Reps from each

facility. Matt Dresher (PIA FacRep), Dan Curtin (SPI FacRep) travelled with the Team as we met in the two potential transferring facilities as well as the two potential receiving facilities. This is just the beginning of data collection of a pre-decisional process that takes into account qualitative and quantitative data for all scenarios. The process requires that all facilities, Labor and stakeholders remain involved in the process. The report and recommendation to the Administrator and NATCA and PASS Presidents are scheduled to be completed this December.

- **STARS/TAMR Phase 3 Segment 2 Transition at Fresno, CA (FAT)**. Congratulations to Fresno, CA and STARS/TAMR Segment 2 as they completed another near perfect transition to STARS for an ARTS IIE facility. At 5:46 PST on Saturday April 18th they completed their transition. Up next for Segment 2 is Springfield, MO (SGF). Another amazing job with adaptation by our OSF brothers and sisters. Steve Sims was on site and did another incredible job.
- **MSY STARS G4 transition.** New Orleans (MSY) completed their transition from Legacy STARS G1/G2 to the new G4. This is part of the STARS/TAMR Phase 1 project to upgrade all Legacy STARS facilities with new processors. A number will receive STARS G4 systems and a large number will receive the STARS Elite product we are currently deploying in STARS/TAMR Phase 3 Segment 2 as replacements for their G1/G2 processors that are now more than ten years old.
- **STARS/TAMR OSF report submitted by Candy Barr-Multi Unit**
 - **Monday** – Friday, Rachel Lamont, Pacific OSF (NCT) is spending the week at Pacific OSF SCT training her coworkers on the ELITE system and adaptation. Randy Garcia and Jake Alcombrack from Denver OSF will also attend.
 - **Monday** - Mr. Barr attended the Leads Telecom, The Eastern Service Area Telecom and the TAMR OSF Telecom.
 - Ms. Barr attended the TFOS Coordination Telecom
 - **Wednesday** - Ms. Barr attended the M98 Pre IOC Telecom
 - Mr. Barr attended the SMS Government only Telecom followed by the SMS Telecom. Article 48 Telecom canceled.
 - **Thursday** - Richard Gribble Chaired the RTT Telecom
 - Mr. Barr attended the OSF Technical Telecom and the OSF Adaptation Development along with numerous other NATCA OSF members.
 - Ms. Barr attended the PTR/STR working group Telecom and the A90 ADS-B only Telecom
 - **Friday** - Mr. Barr attended the weeklyTAGUP Telecom along with Ms. Barr
 - Steve Sims, Gulf Coast OSF, traveled to FAT for the ELITE transition Saturday morning
- **STARS/TAMR Phase 1 update submitted by Jimmie White-PHL**
 - **Monday 4/13:** TAMR Phase 1/STARS Management Leads-PM Meeting. Update, MSY to I.O.C. on the weekend (successful I.O.C.), no issues noted. R27 regression is

- targeted for June. Mr. White will meet with Mike Gercke (AJV), Steve Frith (TSLE Test Lead) and Patti Dee McNeil (Test Manager) on either 4/29 or 4/30. The discussion is as follows, but not limited to:
- Upcoming 2 -3 day regression test
 - ATPA only 2 displays instead of the current 3 executing test (others may monitor from behind or at vacant displays)
 - No qwerty keyboard
 - Split Recat separation requirements steps between displays (1 display do A –D and the other do E – H) instead of all displays/2 doing all of the wake categories A – H.
 - Regression tests to be run = Safety on all platforms, EFSL on G-4, parts of the lengthy Keyboard test, and ATPA (don't know what platform/platforms).
- This list is not completely accurate. We are waiting for input from the test SMEs (if any), prior to the meeting.
 - Mr. White had a brief conversation with Terrence Johnson (Project-Technical Control Lead). He has taken over the MDM program and wants to meet with NATCA before pulling any of the other program folks into the discussion. He has been empowered to use resources to fix the problem if necessary to get beyond the current MDM issues through out the NAS.
 - **Tuesday 4/14:** MDM Meeting. One of the main concerns, is the lack of documentation that was requested from Esterline (formerly Barco) prior to the upcoming PMR (4/24 in DC). Another concern is getting the confidence back for N90, since their experience has been unfavorable with the MDM3s. Most of the agenda items went without discussion, we ran out of time trying to come up with a plan for future deployments, and how to redirect MDM3 assets, while trying to target the first Phase 1 deployment of MDM4s. There seems to be about a 50/50 split on whether the issues are with the monitor itself. There are success stories and failures with MDM deployment, so input from Esterline should shed some light on some of those concerns. The Program Office is going to be very aggressive in obtaining answers for all of the issues.
 - **Wednesday 4/15:** RDO. Discussion with Rob Padilla (TSLE) about key siting X2000 RAIDS. Mr. Padilla brought up a good point, we need to build in some insurance. Meaning our OSF will have to maintain a separate archive for PHL for example. The OSF will have to continue with the standard builds as though PHL never transitioned to R4/X2000 RAIDS. Padilla was not sure if A. The OSF was aware of it, and B. If they are capable of maintaining two separate files. If anything were to happen, let's say within 3 months of the R4 upgrade, we wouldn't be able to just fall back to the previous build, because quite possibly, that previous build may have been updated many times. After talking to Matt McCann-Thomas (PHL OSF

- specialist), he said it wouldn't be a problem and made a note of it. If PHL doesn't key site R4/X2000, this information will need to be passed along. PHL key-site activities have been forwarded to our safety board. Mr. White shared his endorsement to welcome key site with Don Chapman (FacRep/Co-Chair).
- **Thursday 4/16:** PTR Prioritization. 4 items or proposals for coordination list are going to be separated and individually ranked. The concern was, all items together may be too big and/or too expensive to target for build status. All or some of the items may be dropped during build planning, so by separating them, the most important items (in the eyes of AT) may make the cut. The top two PTRs (Can't find what they are, but has to do with tracking filters) were dropped to the top third of the three's. The purpose of this, is to keep them visible, so when it comes time for build planning, if no other group of PTRs warrant moving ahead, the build panel can target one of these top two PTRs for a build. Note that each of the top two PTRs will use up all of the build space and funding for that respective build. There will be other funding coming available soon, that will be able to address each of these PTRs without disturbing items #3 and higher. This by no means, minimizes the importance of the tracking filters, but because of it's size, these PTRs have been sitting for a few months without moving to build status.
 - **Friday 4/17:** Tag-up. Jeff Yarnell spoke of how visible this meeting is and how effective the transfer of information makes this meeting the benchmark for other meetings to imitate. TSS is still a major concern, in part because there is a lot of planning going on, and since WE (the program office) don't own it yet, there is little we can do in terms of steering it's direction. Also, as TSS becomes our reality, it will command lab space at the Tech Center, possibly pushing other TAMR initiatives to the right. MSY (Phase 1) successful I.O.C. George Billos (interim Phase 1 Program Lead) joined the panel, as did Mike Weiler. Mr. Billos will continue weekly meetings with Mr. White, however he and most of the program office will be devoting most of their time gearing up for CCP2000 (contract negotiations with Raytheon-2018 to 2022).
 - **STARS/TAMR Phase 3 Segment 1 update submitted by Doug Peterson-D10**
 - This week we had our IOC Kickoff meeting with Minneapolis TRACON (M98). This is a high level review of the CARTS to STARS transition process and our first attempt to establish time lines and actual transition test dates. M98 will transition in mid September. The meeting went well. The facility has been well prepared by local TAMR rep Kyle Ness who has worked closely with facility management leading up to this. The biggest potential problem is the adequacy of the training simulation conversion program (SIMFAST). M98 has not yet been able to use SIMFAST successfully to convert CARTS format scenarios to STARS format. There are approximately 200 scenarios to convert and this will be a primary action item in the coming months.

- Denver TRACON controller Jason Rose went to Atlantic City this week to represent NATCA Segment 1 TAMR in a PTR prioritization meeting. The meeting is part of an important recurring process to allow us to prepare proposed software bug fixes and improvement requests for insertion into upcoming STARS software deliveries. A backlog of PTR's has been created by the impending software merge build (S06 R4) that will put all STARS baselines on identical software. The team also reviewed, commented or concurred on around 6 software requirement documents (STR thin specs) in preparation for the first post merge software build (R5).
- **STARS/TAMR Phase 3 Segment 2 update submitted by Scott Robillard-K90**
 - **April 13, 2015**, Bill Spence (BTV) dialed into a telcon to discuss the IOC schedule for FAI. Due to FAI's remote location, challenging weather and peak traffic periods, finding the right time to training and then transition to STARS will be challenging.
 - **April 14, 2015**, Mike Wilson (CAK) dialed into the JSS at MYR.
 - **April 14, 2015**, Scott Robillard (K90) and Joe Yannone (Region X) travel to and participated in the CAK Initial Site Survey (ISS) for their STARS system.
 - **April 14, 2015**, Richard Thomas (GEG) dialed into the OSF kick off meeting for GSO.
 - **April 14, 2015**, Jim VanZee (GRR) dialed into the SGF IOC planning telcon.
 - **April 15, 2015**, Frank Stahler (Region X) dialed into the CTD Bi-Weekly meeting.
 - **April 15, 2015**, Scott Robillard (K90) and Joe Yannone (Region X) completed the CAK Initial Site Survey (ISS) for their STARS system.
 - **April 16, 2015**, Scott Robillard (K90) dialed into the PTR Prioritization telcon. This telcon sets the priorities for what STARS software will be built and which will not.
 - **April 16, 2015**, Bill Spence (BTV) dialed into the first IOC planning telcon for LFT.
 - **April 16, 2015**, Bill Spence (BTV) dialed into the first IOC planning telcon for SBN.
 - **April 18, 2015**, FAT achieved IOC and the next is what is becoming a very long line of ARTS IIE facilities to transition to STARS. Gordon Green (PVD), Jill Carr (TPA) and Richard Thomas (GEG) were on hand to assist the facility during cutover and the first initial days.
 - Next up for the SEG2 team is SGF next week, followed by SBN, LFT and EVV to finish out the fiscal year.

TIME BASED FLOW MANAGEMENT (TBFM): Eric Owens (I90) represents NATCA as the Article 48 Representative to the TBFM project. The TBFM report for this week is below.

- The Ops Team continues to send a NATCA SME to support ZAU metering activities. Everything is still going well.
- Last week Mr. Owens visited ZLA, SCT and LAX. He accompanied a group from AJV-85 to review TBFM use.

- TBFM Office is still working to resolve issues with TBFM at ZHU. They have delayed delivery of GIM-S until we resolve the identified issues.
- In addition, the team is working to fix an issue with IDAC arbitrarily shutting down prior to continuing testing at ZLA, LAX, BUR and SCT. Hopefully, these issues will be resolved soon.
- The remainder of the Ops Team did not travel last week.

UNMANNED AIRCRAFT SYSTEMS (UAS): Steve Weidner (ZMP) is NATCA's Article 48 Representative for UAS. Mr. Weidner's report to the membership for this week follows.

- Mr. Weidner participated in the Class C UAS SMS panel on Wednesday and Thursday of this week. The UAS office is conducting SMS panels for UAS operations in all classes of airspace in order to set safety baselines.
- Mr. Weidner coordinated with the FAR Facrep regarding an upcoming meeting in Fargo on April 22nd. The purpose of this meeting is to discuss proposed Air National Guard UAS operations at Fargo.
- Mr. Weidner reviewed documents from a briefing provided by NASA Langley concerning their upcoming HITL. NATCA will have several controllers participating in that HITL.

WEATHER: Matt Tucker (ZTL) is NATCA's Weather Representative. Mr. Tucker's update for this week follows.

- **Weather and Radar Processor (WARP ECP-01/02)**
 - Attended the SRMP on the selectable Mosaic Generator and radar transition. The SRMP came out with no hazards above a medium with a very low probability. The panel covered the new tilt based updates which are a change from the way the mosaic is sent to ERAM. Currently the mosaic on ERAM uses a product that waits until a full volume is complete before going on to glass, this results in the latency of 5 to 10 minutes based on the scan mode the radar is in. The new update will take each elevation scan as it comes in and update the mosaic, which will dramatically speed up the update rate on ERAM.
 - The RADAR transition is a change from the current direct connect configuration of the up to 8 NEXRADS per center, this will collect all NEXRADS at two sites and then provide all the centers with the data. I had concerns with this until I talked with the engineers and the testing team from the tech center and after requiring a change in the server configuration agreed that it should be a more robust system.
- **Weather on ERAM**

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- Had a number of discussions over the current weather filter issue with ERAM and the new update that will allow for selectable layers by 1000' increments. We are now just trying to get all the information to the right players so that when the WARP update comes out of testing ERAM hopefully will be ready to make full use of the upgrade.

Dale Wright

Dale Wright

Director

Safety and Technology