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## **SAFETY AND TECHNOLOGY DEPARTMENT UPDATE**

**Week ending May 6, 2016**

**HUMAN PERFORMANCE:** Jay Barrett (MIA) is the Article 48 Representative for Human Performance. His report is below.

- The 5 year plan has not been finished by the HP office for submission yet. The Program Lead has been in New Zealand presenting at a conference. Hopefully we will have something to submit by this Wednesday.
- The fatigue office activities include:
  - We had a meeting with the FAA communication folks about using their license for distribution of a downloadable fatigue app. They were very open to the idea and believe it can be done. It will take some time to coordinate and there are license purchasing issues since they are working on a trial copy right now. Since the license is the expensive part, we could later create all the apps we want. This gave the HP team some ideas on other content we could develop and push out to the workforce. More to come.
  - The Infina/CSI web based application is at the first level of done. It can be viewed here <http://atsaptest.cssiinc.com/alertness>. If you want to try out the alertness meter, it will require inputting some sleep history. We are not sure what will happen with this going forward. There is some investment in this web based app, but it not what we really want. Conversations will have to be had with AJI Leadership. Beta testing will be next on the agenda.
  - The ZOA schedule issue has returned to front and center here because neither AJI or AJT has given the facility an answer on their request for an AMOC for the 7210.3 fatigue prescriptive rules. Telcons have taken place and I discussed the issue at length with Conde in SJU last week. Jeff Richards (ZAU and Fatigue) and Mr. Barrett would like to have some baseline modeling completed from the fall of 2013 using the current sleep/wake/commute and break assumptions that are input into the model. They were somewhat different back then and those modeling parameters were used to formulate the 7210 prescriptive rules. This should be completed by Thursday May 19th for report at the FSSC meeting.
  - The quarterly FSSC meeting is scheduled for May 19, 20.
  - The FRMT would like to distribute a survey to some facilities about fatigue management and education. The survey is almost finished being edited and Mr. Barrett will approach S &T when it is completed.
- The human factors office activities include:

- The certification standards for N90 are completed and an implementation plan is being developed. Currently the implementation is still on track for a June training of the FLMs and Controllers and July implementation.
- Development of the OJTI Cadre class will begin tomorrow May 10th in DFW.
  - Mr. Barrett will be attending and assisting in this.
- We have had a number of conversations with leaders across the world who work in the resilience engineering space. We are working on a plan on how to move forward with using RE to analyze and recommend safety system adjustments based on the positive stresses that are prevalent in the NAS everyday. Much more to come on this.
- Mr. Barrett and his FAA Co-Lead will be visiting HCF 3rd week of June to do an assessment of their facility issues. We will also provide some leadership and teamwork training to the E-Board and Management team.
- We have set a date to begin working with ZNY on performing a training assessment similar to that we are doing at N90. This is to begin the end of May.
- Tom Adcock and Mr. Barrett are working in a group that is reviewing a list of 39 poor performing facilities from a training perspective. These facilities have been identified as taking too long to certify or are below the average time to certification for similar facilities. This effort is in data collection stage.
- The Health and Wellness activities:
  - Mr. Barrett had some questions from the last PFS Telcon where the content we delivered was about the health and wellness opportunities available through EAP and Magellan. The concern was about counsellors reporting back to the FAA.
    - Mr. Barrett contacted Magellan, CISM chair Chris Schenk and did the research on the FAA contract with Magellan and federal and state law as well as our contract. Mr. Barrett thinks it is well known about drug and alcohol situations, but not for use of general H & W activities.
    - Mr. Barrett has this information available, but has not decided on the most appropriate avenue to disseminate it yet.
  - Mike O'Dyrna (OSHA), Troy Diedrich (ARR FacRep) and Mr. Barrett have started a weekly Telcon to discuss updates on the progress toward getting ARR a temporary trailer and ultimately a new base building. So far the hops is making repairs to water, restroom and soundproofing. We have a general consensus they need adequate break room and classroom facilities and that a temporary trailer will be needed until a decision is made concerning lease expiration in 2018.

**NAS VOICE SYSTEM (NVS):** Jon Shedden (ZFW) represents NATCA as the NVS Article 48 Representative. Mr. Shedden forwarded the information below for the membership.

- **NAS Voice Systems (NVS)** demo labs are currently running on Build 11, with Build 12 currently in development (these are beta builds). This is the beginning of the final development stretch leading into Factory Acceptance Testing (FAT) scheduled to begin in November 2016.
  - Mr. Shedden, Tom Adcock (A48 Training), and the NVS Training Lead Chris Lloyd (ZDC) participated in the NVS Training Guidance Conference Completion meeting in Washington, D.C. This meeting closed action items from the March Training Guidance Conference and further established the training schedule.
  - NVS and ERAM began working together to ensure installation compatibility in the DSR console. There will be an NVS demo given to the ERAM CHI team the week of May 9th at the Tech Center in Atlantic City. In addition to the NVS Demonstration lab at the Tech Center, NVS now has an implementation lab dedicated to the hardware installation of the system.
- **Next Generation Air-Ground Communication (NEXCOM)** continues deployment of new CM300/350 V2 radios to terminal facilities across the country. Deployment is going well. 10 new radios are in work or are going operational in May/June at various sites across the NAS.
  - Later this month, **Houston Center (ZHU)** will begin testing the new RCAG replacing the ARINC's VHF Extended Range Network (VERN) in Cancun. The FAA successfully replaced the Key West VERN last summer. These RCAG/VERN radios provide long-range directional radio coverage in the Gulf of Mexico.
- **NAS Voice Recorder Program (NVRP)** is the replacement for existing NAS voice recorders (DALR, DALR2, DVRS, DVR2). The NVRP Integrated Requirements Team met on March 24th to begin validating and shaping the requirements for the initial Program Requirements (iPR) document.
- The **Headset** contract (Plantronics) is expiring in June of 2016. The FAA program office is currently in the vendor selection process and expected to announce the selected vendor in the spring 2016 time frame. There will likely be changes to the availability of existing headset models regardless of the vendor selected, although the most popular models will remain unchanged. Mr. Shedden is working with Bill Howard (Program Office) to finalize the Headset Guide and briefing document.
- The **Headset Splitter** final design has been completed. The splitter which is designed to allow three or four headsets to be connected to existing voice switches should be produced and deployed later this year.
- **Grand Rapids Tower/TRACON (GRR)** is reporting multiple issues with their aging voice switch. The Voice Switching Team in Oklahoma City (AJW-173) is working closely with GRR to resolve their issues. There's also a radio coverage/spectrum issue being worked, as well as an issue with Tech Ops

staffing and training. The controllers are back in the TRACON and identifying a list of issues to be worked by local tech ops.

- **Waterloo Tower/TRACON (ALO)** is reporting issues with the phone system used operationally in the tower. One of the issues has been resolved (inaudible phone) while the second one remains in work.

**TIME BASED FLOW MANAGEMENT (TBFM):** Eric Owens (I90) is the Article 48 Representative for TBFM. Mr. Owens' report to the membership is below.

- Over the past month the TBFM National Ops Team has been working with ZOA and ZLA to complete Coupled Scheduling (CS) Key Site. The ZOA controllers were running with times on the glass. Overall, the key site was successful. However, we did leave with a couple of issues that we are working to resolve. We are also working to deliver GIM-S to ZSE, ZKC and ZLC in the near future.
- Due to summer leave and SWAP season, the delivery of Integrated Departure and Arrival Capability (IDAC) has been delayed to ZOB. The next site we will deliver to will be ZBW June 20-July 1, 2016. Boston will be followed by ZDC and ZOB.
- We have had a couple of Terminal Sequencing and Spacing (TSaS) meetings to finalize requirements necessary to develop the tool for use by the controllers and TMCs.
  - We are still working to make Seattle TRACON the key site facility followed by Denver TRACON.
  - Next week there will be a TSAS IM (Interval Management) HITL at MITRE.
- Next week, May 16, we will also be at ZNY and N90 to work on training development and plans on how to best implement TBFM at the New York airports.

  
Dale Wright  
Director  
Safety and Technology