

Airport Advisory Board Meeting (Monday, June 28, 2021)

Generated by Allison Swint on Monday, June 28, 2021

Members present

Brian Barthelme Jr, James Alexander, Robert Lightstone, Albert Babcock, Robert Zaorski, George Hill, Henri Sahut

Meeting called to order at 6PM

A. CALL TO ORDER

B. ROLL CALL

C. NEW BUSINESS

Information: 1. Discussion with Pax Air Ops/ATC on items of mutual interest

Annual open forum between 2W6 pilots and Pax Air Ops supported by Navy (FAA Safety Team WINGS event). LCDR Palmer suggested early to mid May. Potential for small PP slides. Building suggestions: TechPort, Hgr AA. Evening meeting probably best for attendance. Alexander to coordinate with FAA as FAAS Team Rep. First one as soon as possible (August) and then annually in spring. Discussion of R-4007 LOA. Keep it simple, clean up the graphics, wide distribution.

Traffic deconfliction discussion. Suggestion that ATIS at PAX be made available on VHF. LCDR Palmer will check with Base Electronics. ATIS can be checked by phone. Navy ad hoc membership on AAB could be arranged through the Base CO by CSMC (should be Ex Officio AAB member).

Suggestion that information regarding listening to ATIS prior to entering the area should be included on chart information and also on AWOS. Need VHF frequency first. This could also be requested by CSMC to Base CO.

ADS-B repeater – not really a useful approach regarding military aircraft since almost none of them are equipped. Pete Lehmann of TCAS Analytics is an ADS-B SME and suggested ADS-R may be the solution. Investigate FAA strategy for where ground stations are placed and what will need to be done to invest in future requirements. Navy reps were not interested in an approach to sharing a repeater system. They stated that the only aircraft currently flying at NAS PAX RIVER that is equipped with ADS-B is the P-8A. Landing at Pax or Webster – only acceptable way is declare an Emergency.

Information: 2. Next business meeting August 23, 2021 at 6PM

D. OLD BUSINESS

Action, Minutes: 1. Approve April 26, 2021 Meeting Minutes & Action Items
To approve the April 26, 2021 meeting minutes & action items

Motion by Robert Lightstone, second by George Hill.

Final Resolution: Motion Carries

Yea: Brian Barthelme Jr, James Alexander, Robert Lightstone, Albert Babcock, Robert Zaorski, George Hill, Henri Sahut

Action: 2. Approve June 7, 2021 Special Meeting Minutes
To approve the June 7, 2021 meeting minutes

Motion by Robert Lightstone, second by George Hill.

Final Resolution: Motion Carries

Yea: Brian Barthelme Jr, James Alexander, Robert Lightstone, Albert Babcock, Robert Zaorski, George Hill, Henri Sahut

E. PUBLIC COMMENT

F. ADJOURN

Action: 1. Motion to Adjourn
Motion to adjourn

Motion by Robert Lightstone, second by George Hill.

Final Resolution: Motion Carries

Yea: Brian Barthelme Jr, James Alexander, Robert Lightstone, Albert Babcock, Robert Zaorski, George Hill, Henri Sahut

Airport Advisory Board Minutes – 06/28/2021

Meeting Start 6:00 pm

Members Present: - Alexander (Chair), Lightstone (Vice), Hill (Secretary), Barthelme (phone), Zaorski, Babcock (phone), Sahut

Others Present: Deatrick (DPWT), Swint (DPWT), Ken Reed and Pat Weaver

Navy Representatives: LCDR Palmer, AT1 Wood, Senior Chief Sealey, Sabrina Hecht

General Public: Scott Sanders, Joe Pugley, Pete Lehmann

Chairman Report: Talk with the Navy until 7 pm; short business meeting afterward. Action items on tonight's agenda included many items from months or years ago.

Annual open forum between 2W6 pilots and Pax Air Ops supported by Navy (FAA Safety Team WINGS event). LCDR Palmer suggested early to mid May. Potential for small PP slides. Building suggestions: TechPort, Hgr AA. Evening meeting probably best for attendance. Alexander to coordinate with FAA as FAAS Team Rep. First one as soon as possible (August) and then annually in spring.

Discussion of R-4007 LOA. Keep it simple, clean up the graphics, wide distribution.

Traffic deconfliction discussion. Suggestion that ATIS at PAX be made available on VHF. LCDR Palmer will check with Base Electronics. ATIS can be checked by phone. Navy ad hoc membership on AAB could be arranged through the Base CO by CSMC (should be Ex Officio AAB member).

Suggestion that information regarding listening to ATIS prior to entering the area should be included on chart information and also on AWOS. Need VHF frequency first. This could also be requested by CSMC to Base CO.

ADS-B repeater – not really a useful approach regarding military aircraft since almost none of them are equipped. Pete Lehmann of TCAS Analytics is an ADS-B SME and suggested ADS-R may be the solution. Investigate FAA strategy for where ground stations are placed and what will need to be done to invest in future requirements. Navy reps were not interested in an approach to sharing a repeater system. They stated that the only aircraft currently flying at NAS PAX RIVER that is equipped with ADS-B is the P-8A.

Landing at Pax or Webster – only acceptable way is declare an Emergency.

THANKS ALL AROUND FOR EFFORT TO IMPROVE COMMUNICATIONS.

Old Business:

Meeting minutes and action item list for April 26th approved unanimously (motion Lightstone/second Hill).

August 19th is National Aviation Day. Tuesday, August 17th, is being considered as event day to coincide with CSMC meeting. Allison asked a few questions about the overall objectives and purpose of the celebration. John Deatruck said the purpose is to update the public on growth in aviation in St Mary's County. Short discussion of the opportunity to move the meeting to August 24th to accommodate multiple options.

Airport Innovation District concept designs for branding were outbriefed to the Steering Committee led by Dept of Economic Development on June 9th. Designs look promising.

Question about the \$500K in the state budget. Money was requested and arranged by the Navy Alliance but will be executed through county officials.

Allison discussed the project of renovation of the terminal. Expected completion date is in December 2021.

Meeting Adjourned 7:31 pm (motion Lightstone/second Hill).

Next Meeting: 08/23/2021 at 6:00 pm (in person)

Submitted by: Hill (Secretary)

**St. Mary's County Airport Advisory Board
Action Item List**

Current: 6/28/21

Action Items as of 6/28/2021 AAB Meeting									
Action Item #	Status	Open Date	Due Date	Close Date	Originator	Assignee(s)	Action Item	Status/Resolution	Follow-up
6	Open	x/xx/18	TBD		AAC	DPWT	Install runway end windsocks (or streamers)	8/26/19: to be included in ALP revision process (see AI 10)	
7	Open	x/xx/18	TBD		AAC	DPWT	Relocate Anemometer where it can provide more accurate runway winds (treeline blocks wind from north impacting reported winds on AWOS and aviationweather.gov)	8/26/19: to be included in ALP revision process (see AI 10)	
8	Open	x/xx/18	8/23/2021		AAC	DPWT (Swint)	Review Wash Rack compliance with new MDE Regulation regarding runoff contamination; determine if formal mitigation is needed	2/24/20: MD Environmental Services (MES) to meet with Airport Manager to discuss; 9/28: County needs to apply for wash rack permit, MES assisting with Notice of Intent to MD Dept of Environment (MDE); 10/26: no change; 12/7: no chg; 1/25/21: no chg; 2/22: no chg; 3/22: no chg; 4/26: permit submitted, water sample to be taken 5/12	
9	Open	x/xx/18	8/23/2021			DPWT (Swint), AAB (Hill, Zaorski)	Procure ADS-B repeater system to improve safety and SA at 2W6; possibly co-share with KNHK?	Need to discuss with Pax Air Ops. 6/24/19: Klapka/Swint to meet with Pax and report at next meeting; 10/26/20: no change; 12/7: no change; 1/25/21: Hill/Zaorski to replace Klapka; 2/22: Bob Z reached out to Pax Air Ops; 3/22: no chg; Hill/Zaorski to map strategy; 4/26: no chg; 6/28: mtg w/ Pax, Navy has no need for ADS-B repeater; ADS-R may be an option for 2W6, need to explore further; Pete Lehmann from TCAS Analytics is SME	4/26/21: uAvionix PingStation2 may be solution? Just \$1750. No go, a closer look shows this is an ADS-B receiver not a repeater.
10	Open	x/xx/18	TBD		AAB	DPWT, AAB	Develop strategy to update Master Plan (ALP and associated documents)	6/24/19: To be scheduled and addressed by AAB after Rules, SOP/Min Std are complete; 6/22/20: Per John Deatrck, county needs to do some work before AAB can address Master Plan (see AI 26).	
13	Open	x/xx/18	8/23/2021			DPWT (Swint), AAB (Hill, Zaorski), NAS Pax	Improve deconfliction between Pax Rwy 14 Approach and 2W6, including AWOS language and updated Chart Supplement (formerly AFD) language	Discussion held with Pax Air Ops 12/3/18. RCO with NAS Pax? 6/24/19: Klapka/Swint to meet with Pax and report at next meeting; 10/26/20: no change; 12/7: no change; 1/25/21: Hill/Zaorski to replace Klapka; 2/22: Bob Z reached out to Pax Air Ops; 3/22: no chg; Hill/Zaorski to map strategy; 4/26: no chg, suggestion was keep this a safety issue; John Deatrck offered to bring this mtg up at next mtg between Pax and CSMC; 6/28: mtg w/ Pax, LCDR Palmer open to working together on this; suggestion made to add Pax Air Ops rep to AAB as ad-hoc member and to add a VHF freq to Pax ATIS (see AIs 32 & 33);	6/24/19: Klapka to provide proposed language. Klapka response that Draft SOP contains proposed language.
23	Closed	9/23/2019	6/28/2021	6/28/2021	AAB (Klapka)	DPWT (Swint), AAB (Hill, Zaorski), NAS Pax	Coordinate with Cheasapeake Ranch and NAS Pax to develop procedures to use MD50 and Pax/WOLF as divert fields when 2W6's Runway is fouled.	6/22/20: Tied to meeting with Pax Air Ops (AIs 9 & 13) but can start with MD50 (Bernie Wunder Aiport Mgr); 10/26: Stoney says MD50 open for meeting, Ted to engage; 12/7: no change; 1/25/21: Hill/Zaorski to replace Klapka; 2/22: Bob Z reached out to Rob Winston at MD50, need to contact Bernie Wunder; 3/22: Hill talked to Bernie Wunder, MD50 not ideal as divert field, don't pursue further; Hill/Zaorski to map strategy for Pax; 4/26: no chg, suggestion was keep this a safety issue; John Deatrck offered to bring this mtg up at next mtg between Pax and CSMC; 6/28/21: mtg w/ Pax, LCDR Palmer confirms Pax/WOLF will assist a GA aircraft that declares an emergency, but cautions not to plan on Pax/WOLF as a divert field as there are significant admin, security, access, and logistics issues involved after landing	

**St. Mary's County Airport Advisory Board
Action Item List**

Current: 6/28/21

24	Open	10/28/2019	8/23/2021		Public (Bob Hansen)	DPWT (Swint)	Explore Compass Rose at 2W6. Obtain info from The 99s.	10/28/19: Bob Hansen to provide info from 99s at January meeting; 2/24/20: Hansen did not attend Jan or Feb AAB meetings; 6/22/20: POC change from Hansen to Klapka, he reports 99s no longer doing compass roses; 9/28: Ted to meet with Allison next week; 10/1: Ted & Allison identified location on west ramp, Allison checking with DPWT to see if they can survey and paint; 10/26: Allison awaiting response from DPWT; 12/7: DPWT has agreed to do, waiting for wx; 4/26: Allison to talk to Ron	
25	Open	6/22/2020	8/23/2021		AAB (Alexander)	DPWT (Swint)	Update airfield diagram in Chart Sup, ForeFlight, etc. to show taxiway markings (makes construction NOTAMs much more useful)	9/28/20: Allison waiting on as-builts from Delta; 10/26: no change; 12/7: no change; 1/25/21: Allison has as-builts, MAA to confirm taxiway layout during inspection 4/15/21; 4/26: as-builts confirmed by MAA, submitted to FAA	
26	Open	6/22/2020	8/23/2021		AAB (Klapka)	DPWT (Swint)	Provide POA&M for Master Plan/ALP revision	9/28/20: County looking for new airport consultant (possibly two, one for planning/design & one for construction); ALP on hold until consultant situation resolved; 10/26: no change; 12/7: no change; 1/25/21: quotes for new airport consultant closed 1/22; 2/22: selection of new airport consultant progressing; 3/22: interviews w/ 3 finalists complete, award expected mid-April; 4/26: AECOM new airport consultant, not notified yet	
29	Open	10/26/2020	8/23/2021		AAB (Klapka)	DPWT (Swint)	Investigate possible methods to remove Canada Geese on airport	12/7/20: Allison to order pyros and screamers, should be here by 1/1/21; 1/25/21: order delayed, should be here by next mtg; 2/22: order in progress; 3/22: ordered, not yet rec'd; 4/26: not ordered yet	
30	Open	1/25/2021	8/23/2021		Public (Corey Smith)	DPWT (Swint), AAB (Hill/Zaorski) to assist w/ SOP	Hunting on airport by county-vetted volunteers seems to violate Airport Rules on hunting/firearms.	1/25/21: Allison to ask for County Attorney's interpretation. A change to the Rules ordinance requires CSMC approval. 2/22: County Attorney says vetted volunteer hunters are acting in official capacity, no change needed to Airport Rules	2/22/21: Update SOP to clarify, and also specify how people can volunteer; 3/22: SOP update in work; county wildlife plan says can't hunt geese until 4/1, deer hunting over until 9/1; 4/26: awaiting SOP update until gate fob policy is ready
31	Open	3/22/2021	8/23/2021			DPWT (Swint), AAB	Review draft gate fob policy to be added to SOP	4/8/21: sent Allison's draft fob policy to AAB; 4/26: Allison to send updated version	
32	Open	6/28/2021	9/27/2021		AAB	DPWT (Swint)	Ask CSMC to request Navy rep as ad hoc, ex-officio AAB member for better communication/coordination on safety issues	7/19/21: John Deatrick sent draft request letter to CSMC	
33	Open	6/28/2021	12/6/2021		AAB (Alexander)	DPWT (Swint)	Ask CSMC to request Navy consider adding a VHF frequency for the Pax ATIS so GA pilots can monitor and know which Pax runway is in use for SA, deconfliction, and safety (currently ATIS is UHF only)	7/19/21: John Deatrick sent draft request letter to CSMC	
34	Open	6/28/2021	12/6/2021		AAB (Alexander)	Pax Air Ops, AAB	Update LOA on use of R-4007 to clarify procedures and update graphic	6/28/21: mtg w/ Pax, LCDR Palmer agreeable to update	
35	Open	6/28/2021	8/23/2021		AAB (Alexander)	Pax Air Ops (Palmer), AAB (Alexander)	Hold open forum between 2W6 pilots and Pax Air Ops to ask questions and share info with the goal of open communications and improved safety; annual FAA Safety Team WINGS event	6/28/21: mtg w/ Pax, LCDR Palmer agreeable; first forum in Aug 21 followed annually in May	

USMSM SMART (Southern Maryland Autonomous Research and Technology) Building Facilities:

- ❖ Education side of the building
 - **Non-metal machine shop:** Workshop for fabricating non-metal artifacts, utilizing equipment such as Industrial Strength Ultrasonic Table Top Plastic Welding Machine, CNC Milling Machines, Laser Cutters and Vacuum Thermoforming.
 - **Machine Shop:** Workshop for fabricating metal artifacts, utilizing equipment such as MIG/TIG Welders, CNC Milling Machines and a Jet Machining Center.
 - **Electronic Shop:** Workshop for fabricating electronic components, utilizing equipment such as PCB Prototyping machines.
 - **Microwave Lab:** Workshop for testing microwave components, featuring a walk-in anechoic test chamber 8' x 12' x 10' high and a Agilent Fieldfox RF Analyzer.
 - **Electrical Engineering Lab:** Lab space featuring Tektronix Dual Channel Arbitrary Function Generators; Oscilloscopes, digital multimeters and precision AC/DC power supplies.
 - **Mechanical Engineering Lab:** Lab space featuring a Subsonic Wind Tunnel (Velocity Range m/s (fps) 1.5-15.2/ (5.0-5.0) 3.0 - 45.7), Airflow Bench, Heat Convection and Conduction, a fume hood, Impact of Jet Apparatus, Static Fluid Bench and a Hydraulics Bench.
 - **Discrete Microelectronics / Circuits / Digital Systems / Embedded Systems Lab:** Lab space featuring precision power amplifiers; Keysight Oscilloscopes; function generators; Agilent Fieldfox Microwave Analyzer; Quanser Rotary Inverted Pendulum Module and Rotary Servo Bases; Intronix Logic Analyzers; and soldering stations.
 - **3D Print Shop:** Workshop featuring Markforged Metal X, Sinter and Mark Two printers; a Stratasys Objet30 printer; a Stratasys Object Waterjet; and an Epilog Fusion Laser Engraving and Cutting System for precision printing and project prototyping.
- ❖ MATRIX (Maryland Autonomous Technology Research and Innovation Xploration) Lab
 - **Open Air-Land Lab:** 80' by 60' lab with a minimum 30' ceiling for testing air and ground systems, and including an in-floor water tank for amphibious water interface testing. Two external doors allow drive/fly-in/out capability. Features a two level, 40 camera Vicon Vantage V16 camera system with a resolution of 16 megapixels, a portable operations center, a protected operations center, and a collocated vehicle storage area. Entire room is RF sealed between 30 MHz-18 GHz to allow GPS and other Rf testing, protecting both internal systems and the external airport environment.
 - **Hydrology Lab:** In this lab, researchers will be able to fabricate and test materials, devices, and assemblies in a water environment to aid underwater vehicle and autonomous marine robotics basic research, testing, and evaluation. The water environment will be a self-contained tank, circulating channel that will have flowing water used to emulate an ocean or riverine environment. Underwater motion capture cameras will enable robotics experimentation. Features a 80 cm by 130 cm Flow Visualization Test Section and Oqus Underwater Camera System.
 - **AR/VR Capable spaces:** The 3D Visualization Laboratory will provide a simulation and modelling environment with capabilities to immerse people into worlds where actual immersion may not be possible due to time, safety, or complexity limitations. This research space will be equipped with a CAVE (Cave Automatic Virtual Environment), which are Virtual Reality (VR) rooms that display images on screens typically using stereoscopic 3D back projected screens (original CAVE) or a higher

definition multiscreen LCD layout (CAVE2) a simulation and modeling environment that is unmatched in the US and could be used to train, and conduct research related to autonomous air, sea and ground systems that support both commercial and non-commercial research goals and objectives.

- **Project Assembly Area:** Large project work area featuring snorkeled and in-table utilities and collaborative workspaces. Has one ADA fume hood and one non-ADA fume hood.
 - **Collaboration/Post-Doc Spaces:** Several spaces surrounding the technical work areas have collaborative spaces for planning and design between students, faculty and other researchers.
 - **Project Transport Rail:** An overhead motorized transport rail with a one-ton capacity runs the full length of the MATRIX lab to support moving large research artifacts from one end of design and fabrication to the other for testing and external offload.
 - **Roof-top Antenna Farm:** Foundation points are available on the roof of the Open Air-Land Lab to support antennas, including communication and tracking, to support external environment testing. External pass-throughs facilitate ease of wiring.
 - **Outdoor UGV playgrounds:** Landscaped and incorporating material challenges, these external spaces will support exercising unmanned ground vehicles in demanding circumstances in the open-air environment.
 - **Open-air UAS flight:** Supported by the UAS Test Site, operating processes are already in place to fly UAS at this airport environment. Relationships with both the FAA and FCC support research work into all applicable areas. The UAS Test Site is available to facilitate transition from lab basic research to external applied research.
- ❖ **Conference facility:** With a capacity for 330 seats/250 seated at banquet tables, and divisible into three sections, with full audio-visual capabilities, this will be the largest, most capable conference facility in southern Maryland. Besides academic conferences, its utility for community and government events is well documented. Adjacent spaces for table and seating storage, as well as a full catering kitchen, support the most demanding events.