



LARRY HOGAN
GOVERNOR

BOYD K. RUTHERFORD
LT. GOVERNOR

STATE OF MARYLAND
MARYLAND STATE POLICE
AVIATION COMMAND
3023 STRAWBERRY POINT ROAD
BALTIMORE, MARYLAND 21220
410-238-5800



LT. COLONEL
DALAINE M. BRADY
ACTING SUPERINTENDENT

January 10, 2023

SUBJECT: MSPAC Update/Status Report _ EMS Board/SEMSAC Joint Meeting

PERSONNEL:

- 2022 Rescue Technician Certifications: 5 Total
- 2022 Crew Chief Upgrades: 9 Total
- 2023 Rescue Technician Certification Training: 9 Planned
 - Five (5) Trooper Medics who graduated in the last two Academy Classes have completed their law enforcement field training will be transferred to MSPAC on January 11, 2023.
 - One (1) additional road trooper will be transferred to the MSPAC to begin training on January 11, 2023.
 - Two (20 Troopers who graduated from the MSP Academy on December 22, 2023 have started field training at local barracks; they will enter the command late spring 2023.
 - One (1) addition Trooper is on medical leave and will begin her training when cleared for duty.
- 2022 External New Hires: 6 Total
 - 3 - Pilot 1A
 - 1 – Fiscal Accounts Clerk
 - 2 – Aviation Technicians
- 2022 Internal Upgrades:18 Total
 - 1 – Pilot 1B
 - 2 – Pilot II
 - 5 – Pilot III
 - 3 – Pilot IV
 - 4 – Instructor Pilot
 - 1 – Director of Flight Operations
 - 2 – Lead Maintenance Technicians
- Currently MSPAC has 16 Helicopter Line Pilot Vacancies and is actively recruiting to fill both PIC and SIC Vacancies;
- MSPAC is processing applications for the following positions:
 - MSP Pilot I-A
 - MSP Pilot II
 - MSP Maintenance Technician I
 - MSP Aviation GSE Technician
 - MSP Instructor Pilot

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AIRCRAFT MAINTENANCE:

- Aircraft N383MD is currently undergoing a 100-hour/ one-year inspection at MTN; due to return to service in mid-March 2023;
- Aircraft N387MD is currently undergoing a 300-hour/ one-year inspection at MTN; due to return to service in mid-January 2023;
- Aircraft N389 MD is currently undergoing a 600-hour/one-year heavy inspection at Agusta Westland Philadelphia Corporation in Pennsylvania; due to return to MSPAC in late January 2023;

The remaining AW139s are in service assigned to the seven sections throughout the State.

ONGOING PROJECTS:

1. **WHOLE BLOOD PROGRAM** – MOA signed by Maryland State Police Aviation Command and University of Maryland Medical System on January 4, 2023. Sole Source Procurement is underway. Implementation Team is being organized with members from partner agencies for the trial program which will allow MSPAC to carry blood on aircraft assigned to two sections. Thank you to all involved.
2. **HOIST PLATFORM** –The frame and fabricated simulated helicopter cabin has been completed for the platform. The search for a spare hoist is underway to be used on the platform. Project moving forward.
3. **WESCAM SIMULATOR** - Moving ahead with a project to acquire an L3Harris WESCAM training simulator; the device would allow crews to practice using the helicopter's camera system and completing operational scenarios without impacting flight time on the Command's AW-139 fleet.
4. **UNMANNED AIRCRAFT SYSTEMS** – The MSPAC continues with the development of its Unmanned Aircraft Systems program with the deployment of 10 Autel EVO II Dual UAS. The Command has certified more than 20 sworn members in FAA Part 107 requirements; these units have been deployed throughout the State to support the MSPAC's Search and Rescue missions. The use of UAS is particularly beneficial instances where weather, terrain, foliage and search times have an impact on capabilities of the helicopter. The UAS is not a replacement for the AW-139 aircraft or our crews.

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MISSIONS:

MSPAC 2022 Preliminary Year-to-Date Mission Data (**December 31, 2022**)*:

- 2022 Total Completed Missions: 2,978 (Down 24%)
- 2022 Total Flight Hours: 2,293.6 (Down 10%)
- 2022 Patients Transported: 1,861 (Up 1.14%)
- 2021 Total Completed Missions: 3,933
- 2021 Total Flight Hours 2,574.8
- 2021 Patients Transported: 1,840

*Numbers subject to change after validation

MSPAC 2022 PRELIMINARY YEAR-TO-DATE MISSION DATA

	MISSION TYPE	MISSIONS	HOURS		MISSION TYPE	MISSIONS	HOURS
	2022 Summary	EMS Completed	1795		1329.9	Trooper 4	EMS Completed
	LE Completed	141	116.9	LE Completed	12		11.1
	SAR Completed	173	138.7	SAR Completed	16		15.3
	Evaluations	96	122.7	Evaluations	15		20.6
	Training Completed	773	585.4	Training Completed	107		96.2
	Totals	2978	2293.6	Totals	324		335.7
Trooper 1	MISSION TYPE	MISSIONS	HOURS	Trooper 5	MISSION TYPE		MISSIONS
	EMS Completed	271	165.5		EMS Completed	130	123.5
	LE Completed	39	32.9		LE Completed	14	14.1
	SAR Completed	38	28.6		SAR Completed	15	13.9
	Evaluations	15	20.6		Evaluations	8	11.4
	Training Completed	169	112.9		Training Completed	93	78.9
	Totals	532	360.5		Totals	260	241.8
Trooper 2	MISSION TYPE	MISSIONS	HOURS	Trooper 6	MISSION TYPE	MISSIONS	HOURS
	EMS Completed	326	191.5		EMS Completed	216	166.9
	LE Completed	26	20.3		LE Completed	6	6.2
	SAR Completed	33	26.2		SAR Completed	20	13.7
	Evaluations	15	17.8		Evaluations	13	17
	Training Completed	87	49.8		Training Completed	135	110
	Totals	487	305.6		Totals	390	313.8
Trooper 3	MISSION TYPE	MISSIONS	HOURS	Trooper 7	MISSION TYPE	MISSIONS	HOURS
	EMS Completed	282	203.3		EMS Completed	396	286.7
	LE Completed	29	21.5		LE Completed	15	10.8
	SAR Completed	23	14.5		SAR Completed	28	26.5
	Evaluations	19	20.3		Evaluations	11	15
	Training Completed	88	78.9		Training Completed	94	58.7
	Totals	441	338.5		Totals	544	397.7

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NOTABLE EVENTS:

December 5, 2022 _ The crew from Trooper 6, assigned to the Easton Section, responded to the area of Blackwater National Wildlife Refuge to conduct an aerial rescue after Dorchester County emergency responders were called for a man that fell 14 feet from a tree stand. Once at the scene, the crew deployed a trooper paramedic who packaged the hunter for aerial extraction. The hunter, accompanied by the trooper paramedic, was then hoisted 80 feet to the aircraft and flown to a trauma center for treatment of his injuries

December 28, 2022_ The crew from Trooper 2 – Washington Section responded to the remote portion of Maryland Heights, above the Potomac River to assist Washington County fire, rescue and emergency medical personnel with the rescue of an injured hiker stranded in sub-freezing temperatures. Upon arrival, Potomac Valley Fire Company personnel determined it would be too difficult to extract the 35-year-old woman from the side of the mountain due to remote and dangerous terrain, compounded with inaccessibility via all-terrain. Once overhead, the crew from Trooper 2 inserted a Trooper/Flight Paramedic on to the southwestern portion of Maryland Heights. The Trooper/Flight Paramedic secured the hiker in a Bauman “Screamer Suit” harness for extrication from the side of the mountain and the hiker was hoisted approximately 100 feet into the helicopter. The patient was flown to Meritus Medical Center in Hagerstown, Maryland for evaluation and treatment.

SYSCOM AND THE OPERATIONS CONTROL CENTER:

In early October, FlightVector was upgraded to version 6.8.1.5 and installed on the State servers. The aircraft computer-aided dispatch software used by the Command is functional and minor operational changes are underway. Operations Control Center personnel within SYSCOM are working to familiarize themselves with the software changes and work with our MIEMSS partners to ensure everyone is comfortable with the latest release.

Thank you for your continued support as we work with our partnering agencies to provide Marylanders with the best aeromedical services.