



*Missions for  
America*

*Semper  
vigilans!*

*Semper volans!*

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## **SENIOR MEETING**

*21 July, 2020*

The meeting was devoted to a discussion about the Squadron's upcoming Subordinate Unit Inspection conducted by the CTWG Inspector General and his staff.

The instructions for reviewing past documentation were explained and for uploading the 2009 SUI documentation.

## **CADET MEETING**

*23 July, 2020*

Cadets were ordered to view a video about supersonic flight and 9G maneuvering demonstrated by the USAF Thunderbirds.

The cadets were split into two separate "rooms" and discussed a prepared set of questions about the video. One of the cadets in each group acted as scribe.

Sixteen questions were asked based upon the video. Typical questions involved the composition of the team, details about the aircraft, and the cause, effects and mitigation of the physical effects of g-loads.

After 20 minutes, the two groups convened and reviewed the answers.

C/1stLt Munzner delivered a Cadet Staff Duty Analysis in which he advocated changing the CAP physical testing standards to reflect the core value of excellence.

He presented a coherent argument in which he compared the current standards adopted in 2018 with his proposal, basing improvement in performance on level of achievement rather than age.

## **REPORT ON WEEKLY OPERATIONS AND ACHIEVEMENTS, MISSIONS, PROMOTIONS, ACTIVITIES**

### *Promotions*

Cadet Trotochaud earned the Rickenbacker ribbon and the grade of cadet technical sergeant.

Cadets Buchko and Motherway earned the Wright Brothers ribbon and the grade of cadet staff sergeant

### *Ground Team Training Day at Danielson Airport*

Lt Kopycienksi did yeoman service at the Ground Team Training a day at Danielson this weekend. First he set up the HF Rapid Deployment Radio, checked into the NER Net and established contact with units in New York, New Jersey, Maine and Pennsylvania.

Lts Kopycienski, Thornell, Docket, and Ceniglio and Cadets Thornell, Martin, Burton, Bosse, Motherway and Trotochaud all took part in various phases of ground team training under Maj Bourque.

Lts Docker, Ceniglio, Thornell and Cadets Thornell, Martin and Bosse participated in a UDF exercise.

The day ended with a session on planning and starting fires which became a practical exercise when they were used to cook the evening meal.

### *CTWG Compliance Inspection*

Col Cheryl Fielitz-Scarborough, National Inspector General has notified Lt Col Rocketto, CTWG Director of Aerospace Education that the wing aerospace program meets all standards set by the USAF and CAP and has successfully completed the biennial National Compliance Inspection (CI).

At this time, all CTWG programs which have been evaluated have passed their portions of the CI. The inspections will continue for the next several weeks.

### *Bethel Cleanup After Food Distribution reported by Lt Thornell and Cadet Bosse*

Five TRCS members assisted the staff at a Bethel, Connecticut church in the storage and clean-up necessary after distributing food to the needy.

Lt Thornell and Capt. Trotochaud and C/1stLt Thornell, C/SSgt Motherway and C/TSgt Bosse donated six hours of time and an undetermined amount of sweat to complete the mission. While there, they met former TRCS Cadet Colin Higganson working as a volunteer also.



*Cadet Bosse  
towing a cart of  
ice buckets and  
unidentified  
cadets  
schlepping a  
food box.*



*Cadet Thornell and an  
other cadet stowing milk  
in a reefer.*



*Cadets Bosse and Motherway  
carting a food box to stowage.*

## **AEROSPACE CHRONOLOGY FOR THE WEEK**

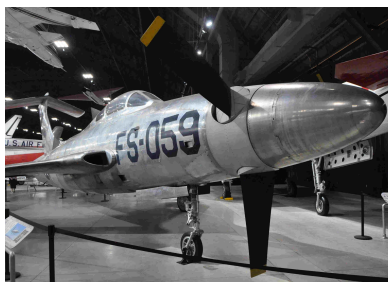
July 22, 1955– First flight of the Republic XF-84H

"Thunderscreech." An Allison turboprop which developed almost 6,000 hp was centrally mounted on an F-84 Thunderjet airframe and drove a pair of counter-rotating propellers by means of a long drive shaft. To compensate for the torque developed, a dorsal fin was fitted and the horizontal stabilizers were "T-mounted" to keep them clear of the propwash.



*The Thunderschreech was the first aircraft to carry an extendable/retractable ram air turbine. The turbine is used to provide power for electrical and hydraulic systems in cases of catastrophic failure.*

The 12 foot in diameter constant speed propellers created a serious problem. The tips were moving at around Mach 1.3 and created what is now believed to be the noisiest aircraft ever built. The incredible noise made men sick, interfered with delicate measuring instruments and it was said the plane could be heard 12 miles away. The authorities at Edwards AFB ordered the tests moved out onto the desert to mitigate the damage to equipment and harm to men.



The "Thunderschreech" only accumulated 6 hours and 40 minutes of flying time in 12 flights. Engine failures, vibration, and longitudinal instability led the first test pilot, Lin Hendrix, to tell the project head that "You aren't big enough and there aren't enough of you to get me in that thing again" Further test flights were conducted by Hank Beard and 10 of the 11 resulted in forced landings.

July 23, 1999 – Under the command of Col Eileen Collins, USAF, Space Shuttle *Columbia* lifted off on a mission to place the Chandra X-ray Observatory in orbit. This was her third space mission and marked the first time that a woman commanded a shuttle mission..



July 24, 1946 – Bernard Lynch, a company fitter, rode on the the first live test of the Martin-Baker ejection seat. He ejected from a Gloster T.6 Meteor at 6,000 feet and at a speed of 320 mph. A series of previous instrumented ground and air tests using dummies were carried out to optimize the characteristics of the seat and reduce the strains and stresses which the ejectee had to absorb.



*Lynch and a Martin-Baker ejection test.*



July 25, 1909– Louis Bleriot becomes the first pilot to cross the English Channel and wins the £1,000 prize which had been offered by the Daily Mail. The proud French government presented Bleriot with an additional £3,000. Bleriot performed the feat with his personally designed Type XI monoplaner.





July 26, 1926 – On the Thames River, New London, Connecticut, the U.S. Navy commences experiments operating an aircraft from a submarine.



*S-1 on the Thames. Note the size of the storage pod.*

*Technicians assemble the Martin MS-1*



The USS S-1 carried a Martin MS-1 in a pod aft the conning tower. It submerged, surfaced, assembled and then disassembled the aircraft, stowed it and submerged.

July 27, 1939 - First flight of the B-23 Dragon. The Dragon was the company successor to the B-18 Bolo. A 14 month production run produced 38 aircraft. Using a modified DC-3 wing, Douglas added a fully retractable undercarriage and for the first time, a tail gunner who fired a single .50 caliber machine gun while lying prone.



*Dragon in the Castle (Castle Air Museum)  
Note the tail gun position. The gunner lay prone.*



The Dragons had a lackluster military career. Only 38 were built. Early in the war some of them served as patrol aircraft on the west coast. Eighteen were converted to UC-67 utility aircraft. After the war, some were purchased by businesses and modified for executive transports or as research aircraft.

July 28, 1950 – British European Airways introduced the Vickers 630 Viscount on a scheduled passenger run from Northolt Airport, Middlesex to Le Bourget, Paris. This is the first use of a turboprop airliner.

