

# Civil Engineering Technical Services Center "CETSC"

### **NGB A40C**

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Chief, Civil Engineering Technical Services Center

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Much smaller resource pool than Active-Duty CE Squadron IR NATIONAL GUA





HEF/AFFF Phase-out for Hangars

CE Control Systems Cybersecurity



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# **Fire Suppression- Status**



### 16 November 2021 Sundown Memo

### Two-tier system;

Tier 1: Total loss of the facility/aircraft/assets mission failure at the DoD, DAF, CCMD, or Sub-Unified Command level (none in ANG)

### Tier 2: all others

Tier 1 Authorized FSS: Ignitable Liquid Drainage Floor Assembly (ILDFA), Fluorine Free Foam (FFF), or High Expansion Foam System (HEFS)

Tier 2: No New Foam or Foam to End of Useful Life

- HEFS or LEFS



June 2022 Revised Sundown Memo Approval Pending

Lock Out Tag Out all foam systems (1 Jan 2023) Meets NDAA 2020 intent-no foam Saves \$\$ over 2021 Sundown Current sprinkler systems adequate Three phase plan Phase 1: Lock Out/Tag Out all foam Phase 2: Remove/dispose all foam

Phase 3: Install sprinkler sys if none, replace AFFF lines

-Install IIIR

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# **Current ANG Hangar Inventory**

Hangars - 221

- -23 Projects in BID or CNS
- -10 Reworked by FY23 projects
- 7 Demo or repurpose
- -42 AFFF hangars -1,029,980 SF of foam coverage
  - --1 Has wet pipe sprinkler; Moffett 662
  - --10 Foam/water wet systems (Sky Harbor & 9 AD)
  - --18 Foam/Water Preaction systems (2-C130J Carswell)

--13 Have no existing sprinkler system & require sprinkler system and IIIR flame detectors; Peoria B632 & B734, Louisville B510, Hector B217, Atlantic City B441, Reno B130, Toledo B124, Portland B250 & B255, Joe Foss B15 & 24, General Mitchell B208, Boise B148 (removal only).

--12 located on AF installations & 2 on Navy installations

--Approx. 50K gals of concentrate

--28 Installations; 22 ANG, 5 AF, 1 Navy

-135 HEF hangars

- ---2 have no sprinkler system or IIIR ; Barnes B27, Boise 155.
- ---25 have IIIR detectors & correct sprinkler systems
- ---108 need IIIR detectors installed, but correct sprinklers
- ---Approx. 63K gals of concentrate
- ---25 on AF installations & 2 on Navy installations
- -1 Deluge Sprinkler system ; Scott AFB B5026
- -3 Have no fire suppression; Selfridge Hangars 3 & 5, Atlantic Sity Hangar 246

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### **CE Control Systems Cybersecurity**





### Control systems are embedded in ANG installation infrastructure

- Civil Engineering Control Systems (CE CS) exist at every ANG installation.
  - Control systems essential to perform mission functions at ANG installations
  - Cyber attacks can target control systems & adversely impact mission execution

### ANG CE CS Cybersecurity Efforts

- CE CS Inventory
  - What we have and where
- Cyber Risk Management
  - Risk Management Framework (RMF)
- Network Security
  - CE-COINv2 Deployment
- Workforce Development
  - Centralized support to ANG CE Squadrons



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As of: 20 Oct 22

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# **RMF Example**



Existing HVAC Control System



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Have a question and don't know who at CETSC to contact?

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