

ARFFWG/AAAE Leadership Conference January 2019



WHAT'S HAPPENING AT THE FAA?

- ARFF Web Page & Statistics
- Advisory Circulars
- > FAA Research
- FAA Reauthorization Bill 2018
- AFFF Certification Alert
- ACRP Projects





FAAARFF WEB PAGE



FAA Home - Airports - Airport Safety - Aircraft Rescue & Fire Fighting (ARFF)

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Airport Cooperative Research Program

Airport Improvement Program (AIP)

Airport Safety

Aircraft Rescue & Fire Fighting (ARFF)

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FAA Foreign Object Debris (FOD) Program

Part 139 Certification

Safety Management Systems

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Wildlife Hazard Mitigation

Aircraft Rescue and Fire Fighting (ARFF) Airports

Operators of Part 139 airports must provide aircraft rescue and firefighting (ARFF) services during air carrier operations that require a Part 139 certificate. The guidance and resources below address ARFF training, ARFF vehicles, and other aviation fire and rescue requirements. More on Part 139 >>

Hot Items

 January 10, 2019: Draft Addendum, HRET Hand Signals, to AC 150/5210-23, ARFF Vehicle and High Reach Extendable Turret (HRET) Operation, Training and Qualifications

Comments are requested by February 11, 2018.

 October 30, 2018: Department of Defense (DoD) Qualified Product Database (QPD)

Airport operators holding FAA Airport Operating Certificates can use the QPD to ensure any Aqueous Film Forming Foam (AFFF) they purchase conforms to MIL-F-24385.

 September 21, 2017: Thermal Imaging for Aircraft Rescue and Fire Fighting Applications

ARFF Contacts

FAA Office of Airports

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FAA Technical Center Keith Bagot

ARFF Research Program Manager





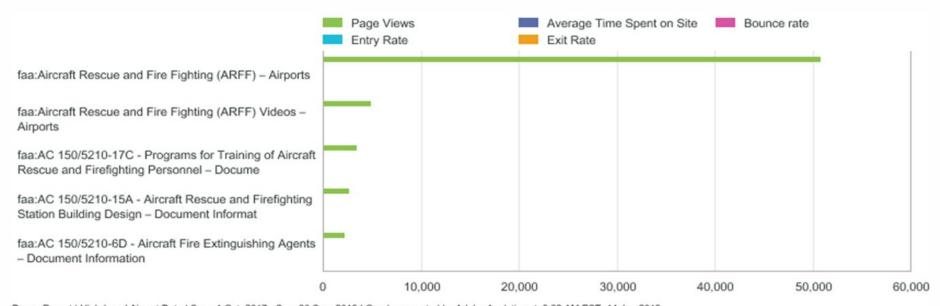
FAA ARFF WEB PAGE

- https://www.faa.gov/airports/airport_safety/aircraft_rescue_fire_fighting/
- > 8,446 Subscribers
- Nearly 51,000 views
- 10th most popular page in the Airports section
- Nearly 140 views per day





FAA ARFF WEB PAGE



Pages Report | High-Level Airport Data | Sun. 1 Oct. 2017 - Sun. 30 Sep. 2018 | Graph generated by Adobe Analytics at 9:52 AM EST, 14 Jan 2019





ADVISORY CIRCULARS

- ➤ Draft Addendum to AC 150/5210-23, ARFF Vehicle and High Reach Extendable Turret (HRET) Operation, Training and Qualifications (posted 01/10/2019)
- New and very clear pictures of the hand signalUsing actual person not a drawing
- ➤ Quick reference guide developed

➤ Currently out for Public comment





FAA Hand Signals

WHICH DEVICE?



This signal, "Tap Top of Head" indicates instructions are for the boom.



This Signal, "with arm bent at elbow, hand and forearm, vertical. The elbow is tapped with the other hand" indicates the next instruction is for the piercing tip.

BOOM



RAISE



LOWER







ADVISORY CIRCULARS (cont.)

- Draft Addendum to AC 150/5210-23, ARFF Vehicle and High Reach Extendable Turret (HRET) Operation, Training and Qualifications
 - Who knew it was out for comment?
 - Who is signed up for alerts?





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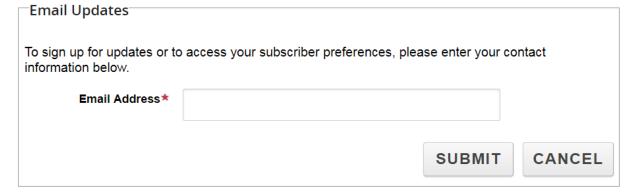
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FAA Technical Center report examines the capabilities of thermal cameras for ARFF operations by conducting both full- and small-scale tests. The research also tests the cameras for the ability to be used with a Driver's Enhanced Vision System in different road and weather conditions, in identifying hot brakes, in the presence of a pool fire, and in identifying aircraft from far distances.

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ADVISORY CIRCULARS

- Next AC's up for future updating
 - ❖ AC 150/5210-19A Driver's Enhanced Vision System (DEVS)
 - ✓ FAA Tech Center Report
 - ✓ Watch for public comment period later this year.
 - AC 150/5210-14B Aircraft Rescue Fire Fighting Equipment, Tools and Clothing
 - AC 150/5210-7D Aircraft Rescue and Fire Fighting Communications
 - ✓ Big change "ARFF COMMAND"
 - ❖ AC 150/5220-10E Guide Specification for Aircraft Rescue and Fire Fighting (ARFF) Vehicles





Tech Center Web Page

Aircraft Rescue and Fire Fighting (ARFF) **Airports**







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ARFF Guidance

- Advisory Circulars
- : Dart 139 Cart Alarte

ARFF Contacts

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- · Airport Technology Research & Development Branch
- · FAA Aircraft Rescue & Fire Fighting Research Program
- · Airport Safety Research Published Papers & **Technical Notes**



Airport Safety Research Published Papers and Technical Notes

FAA Technical Center Reports

Number	Title
DOT/FAA/TC- 17/27	Thermal Imaging for Aircraft Rescue and Fire Fighting Applications
DOT/FAA/TC- 14/22	Impact of Alternative Fuels present in Airports on Aircraft Rescue and Firefighting Response
DOT/FAA/TC- 13/30	Full-Scale Evaluation of ARFF Tactics for Cargo Fires on Freighter Aircraft
DOT/FAA/TC- TN12/34	Test and Evaluation of Rear-Wheel Steering for Aircraft Rescue and Firefighting VehiclesPart 2

View More FAA Airport Safety Research Reports





Airport Safety Research Published Papers and Technical Notes



Airport Safety Research Published Papers and Technical Notes

The following documents are in Adobe Acrobat (*.pdf) format and are available for download. You will need Adobe Reader software to view these documents. Adobe Reader is free and available for download by clicking on the following icon:



Search



Performance Assessment of the Terma X-Band Obstruction Light Control System as an Aircraft Detection Lighting System (ADLS)

DOT/FAA/TC-TN16/41 Authors: James Patterson, Jr. and Garrison Canter







Input-Based Testing

- ➤ The FAA Tech Center has completed testing on three different Input-Based Testing Systems
 - ✓ No-Foam System
 - ✓ E-One's Eco-Logic System
 - ✓ Oshkosh's Eco-EFP System
- > Report published in February
- > Decision has been made
- ➤ Allowable







Input-Based Testing



Federal Aviation Administration National Part 139 CertAlert

AdvisoryCautionary**Non-Directive**Advisory**Cautionary**Non-Directive**Advisory**Cautionary**Non-Directive**

Date: 1/17/2019 No. 19-01

To: All Certificated Part 139 Airports and Aircraft Rescue and Firefighting

(ARFF) Departments

Subject: Aqueous Film Forming Foam (AFFF) Testing at Certificated

Part 139 Airports

Point of Contact: Marc Tonnacliff, AAS-300, 202-267-8732

Email: marc.tonnacliff@faa.gov

1. Purpose. This CertAlert provides information and guidance to airport operators regarding optional equipment for use in testing Aqueous Film Forming Foam (AFFF) systems on their Aircraft Rescue and Firefighting vehicles. It also provides information on current research into fluorine-free firefighting foams, due to recent concerns over the use and discharge of AFFF at airports. This guidance has been prepared in response to a directive in the FAA Reauthorization Act of 2018, described in further detail below, and it does not revise or replace any previously issued guidance.





Input-Based Testing

- 3. Recommendations. The FAA believes that testing ARFF vehicles' AFFF systems is essential to safety. We are working to give ARFF departments the flexibility to ensure they maintain their ARFF vehicles' readiness, while also addressing environmental concerns. The FAA recommends the following to airport operators:
 - a. Consider using one of the following AFFF testing systems, which the FAA has accepted for immediate use, to satisfy the Part 139 testing requirement while minimizing the environmental impact:
 - a. Eco-Logic system from E-One
 - b. NoFoam System
 - c. Oshkosh Eco EFP (Electronic Foam Proportioning) System

2

1/17/2019

FAA Part 139 CertAlert No. 19-01

- b. Consider establishing local Standard Operating Guidelines/Standard Operating Procedures (in conjunction with your local or state environmental regulatory organizations) to identify a suitable location/storage container to discharge AFFF for training and/or testing to ensure the functionality of the foam proportioning system on each ARFF vehicle.
- Consider establishing safe and environmentally effective handling and disposal procedures during testing and re-servicing of each ARFF vehicle with AFFF.
- d. Periodically visit the FAA ARFF webpage for further guidance: https://www.faa.gov/airports/airport_safety/aircraft_rescue_fire_fighting/
- e. Read the FAA Technical Center Report on Input-Based Foam Proportioner Testing, due to





FAA Reauthorization Bill 2018

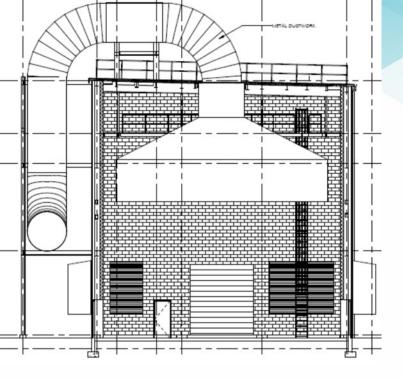
>SEC. 332. AIRPORT RESCUE AND FIREFIGHTING

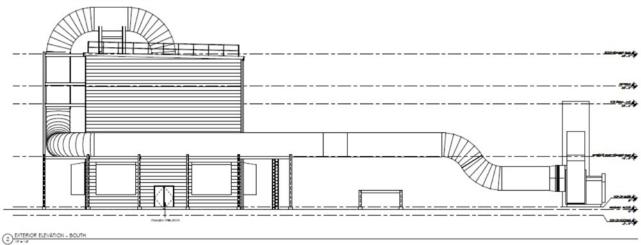
(a) FIREFIGHTING FOAM.—<u>Not later than 3 years</u> after the date of enactment of this Act, the Administrator, using the latest version of National Fire Protection Association 403, "Standard for Aircraft Rescue and Fire-Fighting Services at Airports", and in coordination with the Administrator of the Environmental Protection Agency, aircraft manufacturers and airports, <u>shall not require the use of fluorinated chemicals to meet the performance standards referenced in chapter 6 of AC No: 150/5210–6D and acceptable under 139.319(I) of title 14, Code of Federal Regulations.</u>















Airport Corporative Research Program

http://www.trb.org/ACRP/ACRP.aspx/



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Airport Corporative Research Program (cont.)

- Synthesis S18-04-23 ACRP- Airport Emergency Working Groups
 - Locate and compile information on EWGs that are a collaboration between airlines and airports
 - Due out later this year
- Guidebook for creating and maintaining Social Media for Emergency Management
 - Due out later this year
- Sign up to receive alerts on research reports and webinars.











Contact Information

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