

Executive Summary ECT2 Decontamination of ARFF Trucks

Augusta Regional Airport's Aircraft Rescue and Firefighting (ARFF) unit is implementing a comprehensive plan to replace its legacy aqueous film-forming foam (AFFF), which contains harmful per- and polyfluoroalkyl substances (PFAS), with Solberg 3% Synthetic Fluorine-Free Foam (SFFF). This transition supports compliance with FAA, EPA, state, and NFPA regulations, while aligning with environmental best practices to eliminate PFAS contamination risks.

The selected F3 foam is MIL-SPEC-approved, FAA Part 139 compliant, and fully compatible with existing ARFF equipment, allowing for a seamless switch without requiring significant hardware modifications. The transition, scheduled from August 2025 through March 2026, will follow three strategic priorities:

1. Procurement and Storage – Secure approximately 3,200 gallons of Solberg 3% SFFF, establish a climate-controlled storage facility with secondary containment, and ensure proper labeling and documentation. Foam delivery is targeted for late 2025.
2. Personnel Training – Conduct a comprehensive training program from October to December 2025, combining classroom instruction on foam chemistry, performance, and SOP updates with hands-on live-fire drills to ensure operational readiness before deployment.
3. Vehicle Conversion and Decontamination – Engage contractor ECT2 in January 2026 to decontaminate three ARFF vehicles and two AFFF storage tanks using proprietary PFAS-removal technology proven to achieve up to 99% PFAS reduction. Wastewater and solid waste will be collected for compliant off-site disposal. Vehicles will be refilled, tested for proper proportioning, and sequentially returned to service to maintain continuous ARFF coverage.

The plan emphasizes regulatory compliance, environmental stewardship, and operational continuity. Upon completion, all ARFF resources will operate exclusively with F3 foam, eliminating PFAS hazards from airport firefighting operations, enhancing firefighter safety, and ensuring readiness for FAA inspections. This proactive approach positions Augusta Regional Airport as a leader in sustainable, compliant ARFF operations.