



**Airport Fire Safety Audits by  
third party Specialist:**

**Working with Fire Chiefs to Address  
Operational gaps and strengthen  
leadership engagement**

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# INTRODUCTION

- Airports audits generally conducted by generalists of regulatory authorities of the country
- Absence of RFF matter expert seldom overlook fire & life safety measures





## PURPOSE



To ensure the Airport Rescue and Firefighting Service (ARFF) operates at the highest safety, compliance, and efficiency standards through an independent review

# ADVANTAGES

**Objective Assessment** : Provides an unbiased and objective evaluation of the airport's fire service capabilities, procedures, and equipment

**Identification of Gaps** : Helps identify gaps in emergency response procedures, training, equipment, and infrastructure, enabling targeted improvements

**Enhanced Safety** : Contributes to enhanced safety by ensuring compliance with regulatory requirements and industry best practices

**Regulatory Compliance** : Ensures the airport's fire service meets regulatory requirements and standards, reducing the risk of non-compliance and associated penalties

**Best Practices** : Introduces best practices and benchmarks from other airports or industries, promoting continuous improvement

**Credibility** : Third party audits prove that every aspect is tested, audited and produced consistently to meet safety standards

# ADVANTAGES

**Assurance** : Provides stakeholders, including passengers, airlines, and regulatory bodies, with assurance that the airport's fire service is robust and effective

**Risk Reduction** : Helps reduce the risk of accidents, injuries, and damage to property by identifying and mitigating potential hazards

**Improved Emergency Response** : Enhances the airport's ability to respond effectively to emergencies, minimizing the impact of incidents

**Training & Resource Allocation** : Informs training programs and resource allocation, ensuring that fire service personnel are equipped to respond to emergencies effectively

**Continuous Improvement** : Fosters a culture of continuous improvement, encouraging the airport to regularly review and update its fire service procedures and capabilities



# CASE – 1





## CASE – 2





## CASE – 3





## CASE – 4





## CASE – 5





## CASE – 6





# CASE – 7

## Extinguishing Agents



### ➤ Observation

- Quantity of reserved stock is adequate
- Foam test was conducted on 30<sup>th</sup> Oct 2017
- **ABC type dry chemical powder not compatible with the existing type of foam**

### ➤ Recommendation

- Replace with BC type dry chemical powder – Doc 9137 ASM Part 1 (8.2.4)
- Rearrange extinguishing agents – First In Last Out



# CASE – 8

## Operations

Response Time:

**Observation:** Response Time was checked & found well achieved within 2 minutes on the runway. However, it may not be practicable to have direct & safe access to the movement area in Intl & Dom apron during live runway operations.

**Recommendation:** Siting of satellite FS at suitable location to comply with response time requirements of aircraft movement area. (Ref- Doc 9137 Chap-5)

Task Resources Analysis:

**Observation:** Manpower deployment & provisioning is not in-accordance with TRA

**Recommendation:** A complete task resource analyses to be carried out to justify the competent/ qualified personnel required to deliver effective ARFF operations (Ref- Doc 9137 Chap-10)



## JUSTIFICATION

- Low-cost, high-impact safeguard, that protects lives, assets, and revenue streams
- Strengthens compliance, reduces risks, and positions the airport as a leader in safety excellence



A close-up photograph of two hands, one above the other, holding a small white rectangular card. The card has the words "THANK YOU" printed in a bold, black, serif font. The hands are light-skinned and appear to be belonging to a person wearing a grey long-sleeved shirt. The background is a soft, out-of-focus grey. A solid red rectangular shape is visible in the top right corner of the frame.

**THANK YOU**

