



The Future of Firefighting Foams

*Moving from AFFF
to Fluorine-Free Solutions*

TAC 11/22 – Special Hazards

Presenters

James Perriss

**Director of Product Management – Global Suppressants,
Solberg - Perimeter Solutions**

- *19 years of experience in Fluorine-Free Foam and its applications/approvals*
- *Fire Protection Association Australia (FPAA) TAC 11/22 – Special Hazards*
 - *Foam Working Group*
 - *FFF Product Development, Approvals and Testing Standards*



Carlo Tribbia

Director, TrizenCorp

- *40+ Years experience as a Fire Protection Consulting Engineer*
- *20+ years designing industrial and aviation facilities*
- *Fire Protection Association Australia (FPAA) TAC 11/22 – Special Hazards*
 - *Foam Working Group*



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Today's Agenda

Introduce FPAA Information Bulletins

- **IB-06**
- **IB-25**

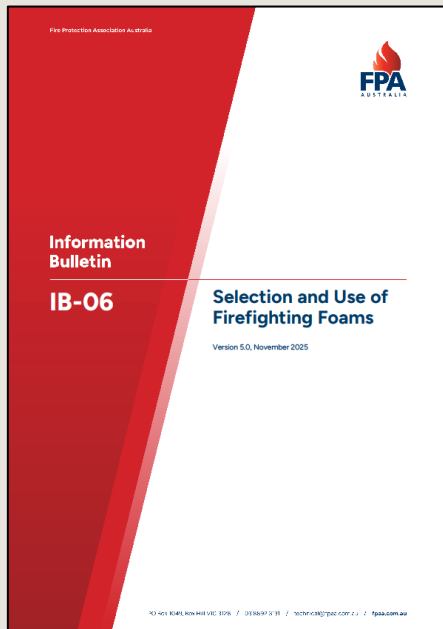
Firefighting Foam – “Challenges”

- **PFAS phase-outs/Legislation**
- **Approvals**
- **Performance**
- **Fit-For-Purpose**

Transitioning - Assessment to Commissioning:

- **Transition Pathways**
- **Identifying Key Decision Points**
- **Verification, decontamination and associated waste considerations**

Panel Session



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Foam Selection – “Challenges” (Considerations)

FPAA “dedicated to reducing the risk of fire on people, property, and the environment”

FLUORINE FREE FOAM:

- Approvals
 - 2014 to 2026
- Application Rates
- Expansion Rates
- External Factors
 - Temperatures
 - Water Quality
- Viscosity
 - Newtonian & Non-Newtonian
 - Hardware Compatibility

		2014	2026
Industry Application	General Guide Approvals	FFF meets specifications	FFF meets specifications
LAST Terminal Facilities & Refineries hydrocarbons, blends and polar solvents	LASTFire, UL, FM & EN1568 (LASTFire / UL / FM for fixed systems)	✓ ^o	✓
Aviation - ARFF and Hangars - hydrocarbon fuels	ICAO, EN1568 (Hangars - UL / FM for fixed systems)	✓	✓
Offshore - hydrocarbon fuels, some methanol & polar solvents	IMO, ICAO, EN1568, UL & LASTfire	✓ ^o	✓
Fire Services - hydrocarbons, blends and polar solvents	EN1568, ICAO & LASTfire	✓	✓
Defence (Army, Air Force)	DEF (Aust)5706, ICAO, EN1568, US Mil Spec*/**	N/A	✓**
Defence (Navy)	US Mil Spec*/**	N/A	X**
Ports, Tugs and ships	EN1568, IMO & MED	✓	✓
Oil and Gas Industries	LASTFire & EN1568 (LASTFire / UL / FM for fixed systems)	✓ ^o	✓
Mining - Vehicles Suppression	AS5062	X	✓
General Industry - Chemical Industries, Power Stations,...	EN1568 & LASTFire (LASTFire / UL / FM for fixed systems)	✓ ^o	✓
Hand-Held Extinguishers	AS1850	X	✓

*US DOD MIL-PRF-24385F(SH) - AFFF Liquid Concentrate, for Fresh and Sea Water

**US DOD MIL-PRF-32725 - Fluorine Free Foam (F3) Liquid Concentrate for Land-based and Freshwater applications only (6 Jan.2023)



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Foam Transition Process

Existing System Review

- Understanding the existing design
- Client parameters
- PFAS contamination levels

Foam Suppression System Transition Design

- Foam selection (Regulatory requirements)
- Changes in Facility Usage
- Required Design modifications
- Cost Assessment including Operational Costs
- Decontamination Design and Procedures
- Foam Transition Work Plans
- Regulator Interaction



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Foam Transition Process

Transition Execution

- Contingency Foam Systems during any System Decontamination
- Development of Specific OH&S Procedures
- System Decontamination
- System Modifications

Functional Testing

- Commissioning Test Work Plan
- System Testing

Waste Management

- Prepare and Implement a specific Waste management Plan
- Sample and classify Waste – Solid and Liquid
- Dispose to a *Licensed* Waste Treatment Facility



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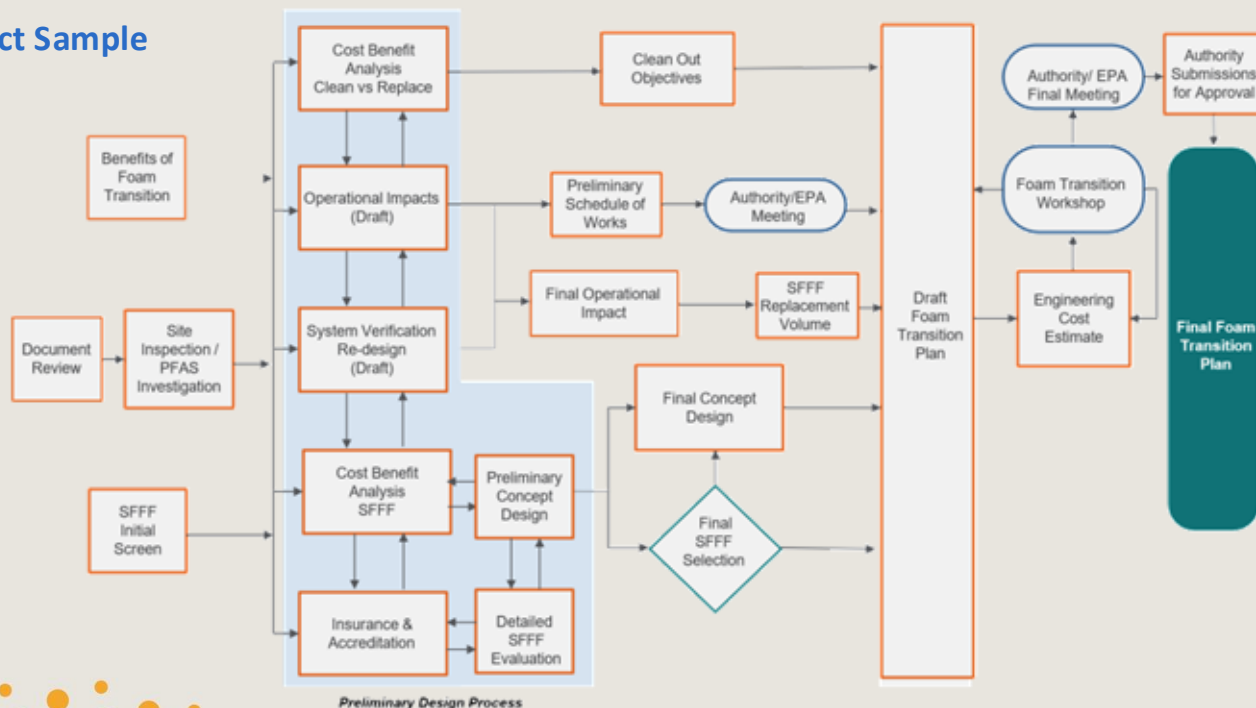


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Foam Transition Plan

Specific Project Sample



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Brett Staines

James Perriss

Carlo Tribbia



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