

HYDRAULIC ASSURANCE

Prove your PFAS-free foam system will work — before you modify it.

AMELA uses measured foam behaviour and your actual installation to prove hydraulic performance, identify only the modifications that are truly needed, and provide review-ready engineering evidence.

PLAN THE TRANSITION

Why act now?

The PFAS transition is a multi-year engineering programme. Complex sites need time for selection, testing, design, review, procurement and implementation.

23 Oct 2026

Planning trigger

Important management-planning and operating conditions apply for continued qualifying PFAS-foam use.

23 Oct 2030

General restriction

The general PFAS firefighting-foam restriction applies, subject to specific derogations.

23 Oct 2035

Seveso backstop

The relevant Seveso derogation ends. Site-specific obligations still need confirmation.

THE COMPLICATION

The foam changes. Your existing system may not behave the same.



Pressure losses can increase.



Pumps may have less margin.



Remote routes can become critical.



Compliance still has to be demonstrated.

? Can the selected foam and our actual installation meet every required fire scenario — and what is the minimum change if they cannot?

AMELA answers that question in three layers

1 PROVE

Does the existing system work?

Characterize the selected foam, model the existing network and calculate pressure and flow for normal and relevant contingency scenarios.

2 IMPROVE

What exactly needs to change?

Test practical options such as strategic pipe upsizing, rerouting, additional pumping capacity or proportioning changes before investing.

3 CLOSE OUT

Can the solution be defended?

Translate the results into traceable engineering evidence for compliance management, fire-safety documentation, authority or inspection review, and final verification.

TRANSPARENCY MATTERS!

Evidence beneath the conclusion.

PFAS-free foams can be more viscous and less ideal than legacy foams. A defensible answer needs the right evidence at every step.

01 • MEASURE

Actual foam behaviour

Use the selected foam's real flow characteristics.

02 • MODEL

Your real installation

Calculate pressure and flow through the routes that matter.

03 • DOCUMENT

Traceable evidence

Give technical teams and reviewers a clear basis for decision-making.

What this looks like in practice.

INDUSTRIAL REFERENCE CASE

Large terminal at Botlek Rotterdam

The terminal needed to introduce PFAS-free foam into an existing firefighting system. Unknown flow behaviour created uncertainty around pressure loss, pump loading and the modifications that might be required — delaying important investment decisions.

What the analysis changed

Hydraulic uncertainty removed

Scenario analyses showed pressure loss, pump loading and system behaviour before changes were made.

Modification scope became clear

The terminal could see which technical changes were actually necessary for the new foam.

Investment decisions accelerated

Engineering choices could be assessed before spending money on pumps, foam, piping or other modifications.

Transition successfully completed

The selected solution could be integrated into the existing system on a safe and the plant is fully operational with a fluor free foam installation.

Two possible outcomes — both useful

SYSTEM PASSES

Use the calculation as proof.

Demonstrate sufficient pressure and flow at critical points, including relevant blocked-route or alternative-route cases. The calculation package can support the client's compliance management, fire-safety and compliance documentation.

SYSTEM FALLS SHORT

Design only what really needs to change.

Compare targeted interventions such as wider pipe sections at strategic locations, alternative routing, extra pumping capacity for remote locations or proportioning changes — then verify the selected design.

What AMELA needs to start

- PFAS-free foam sample and concentration
- System drawings / routes and elevations
- Pump and proportioning data
- Required fire and contingency scenarios

What the client receives

- Measured foam flow behaviour
- Pressure and flow margins at critical points
- Clear pass / shortfall assessment by scenario
- Modification options and review-ready evidence

Start with the question that determines the rest of the project.

Will the selected PFAS-free foam and your existing installation deliver the required pressure and flow? AMELA can screen the system, prove the available margin and define the right engineering changes where required.

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Discuss your foam transition →

