

THE CATALYST

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ASIA PACIFIC
Tel: +61 2 9673 5300

UNITED STATES
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MAKING THE SWITCH TO FLUORINE-FREE FOAM

THE FUTURE OF FIRE SUPPRESSION

by James Perriss from Perimeter Solutions

Across fire safety trade publications today, Synthetic Fluorine-free Firefighting Foam (SFFF) technology is a dominant topic—and for good reason. The industry is quickly moving away from fluorinated firefighting foam (such as AFFF's, AR-AFFF's, FluoroProtein foams) for a number of reasons. First, new regulations are being introduced around the world requiring organizations to move to SFFF. Beyond regulatory pressures, many organizations are proactively adopting SFFF solutions to prioritize environmental stewardship. Finally, advancements in fluorine-free technology have led to the development of high-performance solutions that meet or exceed traditional firefighting standards, proving their effectiveness worldwide.

For more than 20 years, Perimeter Solutions has developed and refined SFFF solutions, delivering innovations that have proven performance, while helping its customers navigate the complex transition away from fluorinated firefighting foams. With a comprehensive portfolio of globally approved SFFF products, UL Approved and FM Listed system hardware and extensive real-world experience, Perimeter Solutions understands the key drivers for this shift. These are steps that may help smooth the transition.



Seven Steps that May Smooth the Transition of Your Foam System

01.

Determine what type of firefighting foam you have

Start by identifying whether your existing foam concentrate contains per- and polyfluoroalkyl substances (PFAS). Knowing the composition and classification of your current firefighting foam is essential for compliance with new regulations and planning for its replacement. It will also help with budgeting for the transition, as it will determine whether you can continue to use your existing equipment after thorough cleaning, or if you will have to invest in a new system. (See step 6.)

02.

Review the laws and regulations in your region, country, or industry

Regulations governing the use and transition from legacy foams vary by region and industry. Consult state and local authorities to ensure compliance.

03.

If you are required to change your foam concentrate, determine the best way to dispose of what you currently have

Proper disposal of legacy foam is

critical. Cleaning the equipment can be costly, and even after cleaning, it may still contain residue, which requires proper disposal.

04.

Reevaluate the hazards you have on hand

Before selecting a new foam concentrate, conduct a comprehensive hazard analysis. Consider the types of fuels, fire risks, and suppression systems in use at your facility.

This step ensures that the new foam will provide the necessary fire protection for your specific application.

05.

Select an appropriate foam concentrate based on your updated hazard analysis

Choose an SFFF solution that meets the fire suppression requirements identified in your updated hazard analysis. Perimeter Solutions offers a broad range of Underwriters Laboratories (UL) and Factory Mutual (FM) approved products, as well as LASTFIRE, IMO, ICAO, EN1568-certified. This includes SOLBERG®

VERSAGARD™ and SOLBERG® RE-HEALING™ foams, designed to match or exceed the performance requirements for various applications.

06.

Make necessary changes to your foam system

Transitioning to SFFF may require adjustments to existing equipment. Check compatibility with pumps, proportioning systems, and discharge devices. Transitioning to SFFF may require adjustments to existing equipment.

Check compatibility with pumps, proportioning systems, and discharge devices. Depending on the selected foam, modifications may not be required or may be minimal. Perimeter Solutions' team of experts can help streamline the process.

07.

Install and commission the system

Once modifications are complete, install and thoroughly test the new system to ensure optimal performance.

Verify application rates, system pressure, and foam effectiveness.

Perimeter Solutions: High-Performance SFFF Options



Perimeter Solutions offers a range of SFFF concentrates that not only meet regulatory environmental standards but deliver superior performance across multiple industries. Our products include:

• **SOLBERG® VERSAGARD™ 1x3 AR-SFFF:** A versatile, alcohol-resistant foam concentrate for Class B hydrocarbon and polar solvent fuel fires. Certified to UL-162, EN-1568:2018, and IMOMSC.1/ Circ. 1312, it is also GreenScreen Certified Silver® and LASTFIRE batch-certified.

• **SOLBERG® VERSAGARD™ 3x3 AS-100:** A multipurpose foam designed for Class B hydrocarbon and polar solvent fuel fires, delivering high fluidity

with slow draining. Certified to UL-16262, EN-1568:2018, IMOMSC.1/ Circ. 1312 and ICAOB, it is also GreenScreen Certified Silver® and LASTFIRE batch-certified.

• **SOLBERG® RE-HEALING™ 3x3 SP-100:** The industry's first UL-listed and FM-approved fluorine-free 3x3 foam concentrate with the full complement of hardware and standard sprinkler listings, including non-aspirated.

• **SOLBERG® RE-HEALING™ RF1-FPSFFF:** Using innovative Newtonian



technology, this Freeze Protected SFFF foam is designed to meet the needs of floating production storage and offloading (FPSO), certified to EN1568, American Bureau of Shipping (ABS) Type Approval and LASTFIRE batch-certified.

• SOLBERG® 3% MIL-SPEC SFFF:
The world's first SFFF concentrate to be approved by the U.S. Department of Defense per the MIL-SPEC Qualified Product List (QPL) - MIL-PRF-32725 and ICAO approved and GreenScreen Certified Silver®. It is specifically designed for fast knockdown of gasoline and Jet A fuel spills. To date, we have helped more than 150 airports and military bases transition to the SOLBERG 3% MIL-SPEC SFFF.

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Perimeter Solutions offers a range of SFFF concentrates that not only meet regulatory environmental standards but deliver superior performance across multiple industries.

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With more than 20 years of innovation and expertise, Perimeter Solutions products meet global performance standards, helping clients achieve both compliance and operational excellence. When you are ready to transition to SFFF technology, our certified products are engineered to support the highest levels of fire safety while reducing environmental impact.

As the transition to SFFF continues, now is the time to review the Perimeter Solutions innovative range of fluorine free firefighting foam and listed/approved hardware.



**JAMES
PERRISS**

Director of Product Management for Global Suppressants at Perimeter Solutions

 **Perimeter SOLUTIONS**
Quality Products. Exceptional Response.