

Airport Fuel System Flushing Services

Turnkey flushing, filtration, and contamination removal for airport hydrant systems, jet fuel piping, and aviation fuel infrastructure.

 www.pfpusa.com

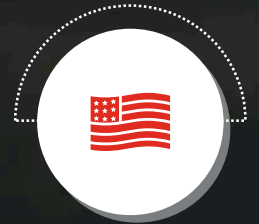


Precision Filtration Products
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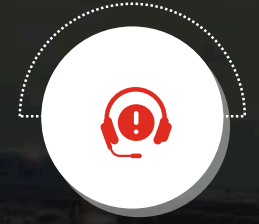


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Turnkey Fuel System Flushing Services For Airports and Aviation Fuel Facilities



**Nationwide
Service**



**Application
Support**



**Reporting &
Documentation**

Complete flushing solutions for new construction, system commissioning, maintenance, and contamination remediation.

Precision Filtration Products provides turnkey airport fuel system flushing services for hydrant piping networks, fuel distribution systems, storage facilities, and associated aviation fueling infrastructure.

During construction, maintenance, and extended periods of inactivity, fuel systems accumulate dirt, weld debris, pipe scale, corrosion products, residual water, and other contaminants. If left untreated, these materials can compromise fuel quality while restricting flow and creating operational problems throughout the fueling system.

PFP provides the high-capacity filtration equipment, temporary piping connections, and experienced field personnel necessary to flush and clean aviation fuel systems before entering or returning to service.

Each project is configured around the system's piping layout, available flow rates, fluid characteristics, existing contamination, and required fuel cleanliness specifications.

Emergency & Urgent Applications

PFP can quickly mobilize a turnkey flushing solution for applications that require immediate support & contamination control. For urgent needs, please contact us at **(888) 679-6645**.



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WHEN & WHY PERFORM FUEL SYSTEM FLUSHING?



Applications We Support

PFP provides airport fuel system flushing services for newly constructed, modified, and existing fuel infrastructure.

Our team can mobilize large-scale filtration equipment and on-site personnel to support commissioning requirements, scheduled maintenance, and remediation projects.

To discuss your unique application, please contact our specialists at (888) 679-6645.

New System Construction & Commissioning



Newly constructed airport hydrant systems and jet fuel pipelines can contain a wide variety of contaminants that are introduced during fabrication and installation. Flushing before commissioning helps remove residual debris from piping networks before the system enters active fueling service. Our personnel have extensive experience preparing new aviation fuel infrastructure for operation.

Post-Hydrostatic Testing & Dewatering



Following hydrostatic pressure testing, residual water may remain inside airport fuel piping, low points, and other areas of the distribution system. Once the bulk test water has been removed, properly configured fuel flushing and filtration operations can help address remaining water and contamination before commissioning. Additional drying or verification procedures may be required.

Fuel System Modifications & Repairs



Pipeline extensions, valve replacements, hydrant system modifications, and other maintenance activities can introduce a wide variety of contaminants into existing fuel infrastructure. Targeted flushing of affected piping sections helps remove debris generated during construction and repair work.

Preventative Maintenance & System Cleaning



Over time, aviation fuel systems may accumulate sediment and other contaminants in piping, storage facilities, and associated equipment. Planned flushing and filtration can be incorporated into maintenance programs when inspection findings, contamination history, or fuel quality results indicate that corrective cleaning is necessary.



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How Does PFP Perform Airport Fuel System Flushing?

Every airport fuel system flush presents unique challenges depending on the piping layout, fuel volume, required velocity, and contamination conditions.

PFP evaluates these factors to develop an appropriate equipment configuration and flushing strategy. Our team will work with all parties to provide the right solution.

Our Step-by-Step Process

1

Project Coordination & Flushing Plan Development

Collaborate with contractors, engineers, airport personnel, and other stakeholders to develop a comprehensive flushing plan. PFP provides detailed system drawings, equipment layouts, flushing procedures, and all supporting documentation throughout the planning process.

2

System Assessment & Flow Configuration

Evaluate piping dimensions, system layouts, connection points, required flushing velocities, and target cleanliness specifications. Determine appropriate equipment configurations and establish the temporary flow paths necessary to address each section of the fuel system.

3

Equipment Mobilization & Installation

Mobilize high-capacity filtration skids, particulate vessels, coalescer-separators, and auxiliary equipment. Our field personnel coordinate equipment placement, temporary connections, and system preparation in accordance with the approved flushing plan.

4

High-Flow Fuel System Flushing & Filtration

Circulate aviation fuel through the designated piping sections at the specified flow rates to mobilize accumulated debris and contamination. Capture suspended particulate contamination and remove free water as required. Monitor system flow rates and fuel quality during operation.

5

Final Verification & Project Documentation

Perform final sampling and verification against the established acceptance criteria. Compile flushing records, operational data, and supporting documentation to provide stakeholders with a detailed account of the completed operation.



AVAILABLE FLUSHING EQUIPMENT

PFP's Large Selection of High-Capacity Flushing & Filtration Equipment

PFP maintains an extensive rental fleet of industrial filtration equipment suitable for large-scale aviation fuel flushing operations.

Our equipment can be configured to support high-flow jet fuel circulation, particulate removal, water separation, and continuous high velocity flow.



Flushing Skids



Particulate Vessels



Coalescer-Separators



Clay Treater Vessels



Pumps & Auxiliary Equipment



Hoses & Containment



View our rental fleet at www.PFPUSA.com, or call (888) 679-6645 to learn more.



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Case Study: Jet Fuel Pipe Flushing Operation - Northeast Airport, U.S.A.



PFP was contacted by a third party contractor to support a jet fuel piping flush underneath the airport tarmac. The project required high-flow aviation fuel filtration equipment capable of supporting the flush while maintaining fuel cleanliness and compliance.

With aviation fuel quality being critical in nature, it was imperative to specify technology required to meet ASTM 1655 standards. This was specifically in the context of both water and particulate contamination.

The ultimate solution was prescribed from our extensive rental fleet: a 3,000 GPM aviation fuel filtration skid consisting of a pre-filter for particulate removal followed by a coalescer-separator vessel to remove any potential water contamination. 10" gate valves were also provided to isolate the filter vessels from the upstream and downstream manifolds.

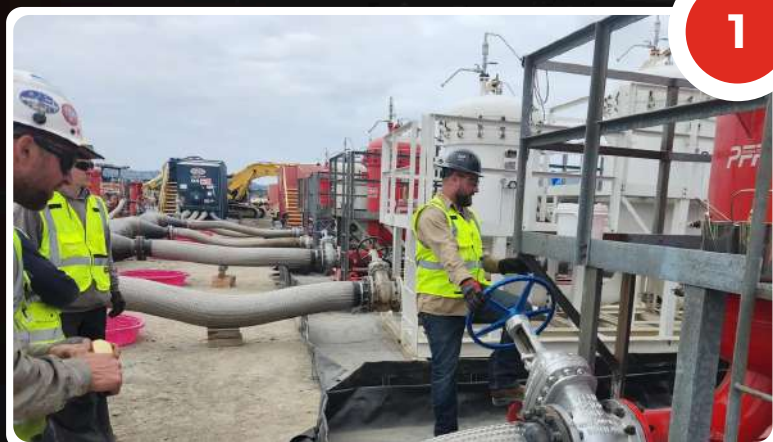
The filter elements we suggested to achieve the ASTM 1655 requirements were as follows:

- **Pre-Filter:** 1 μ Microfilter – EI 1590 Qualified
- **Coalescer:** Qualified to EI 1581, 6th Edition, Category C
- **Separator:** Synthetic Media, Qualified to EI 1581, 6th Edition, Category C

Our system design allowed the contractor to flush the fuel piping under the tarmac at the target flow rate of 2,400 GPM (10' per second) while maintaining the required fuel quality on the upstream side of the filter skid.

In addition to having the components in stock, PFP mobilized all equipment for rapid delivery while providing on-site support throughout the entire process. We also assisted in the operation of the flow meter and helped to troubleshoot real-time operation challenges.

As a result, this critical airport flush was completed on time with clean, compliant fuel.



To learn more about our Airport Flushing services, visit www.PFPUSA.com.



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