**Airport Jet Fuel Tank Farm**  
Washington, DC, USA

**CHALLENGE:**
Protect two fuel storage tanks of JET-A Fuel and three dike containment areas

**SOLUTION:**
ANSUL® fixed foam system, surface application with fixed foam discharge outlets

**APPLICATION:**
Two of six JET-A storage tanks (each):
- Height of 40 ft (12.2 m), diameter of 100 ft (30 m), area of 7,854 ft² (729.6 m²), and a shell area of 12,566 ft² (1,167.4 m²)
- Containment dike for each pair of tanks: 215 ft x 343 ft (65.5 m x 104.5 m)

Downtime is not an option for an international airport where millions of passengers are served annually. That goes for the Jet Fuel Tank Farm that ensures the use and availability of the fuel critical to the operation of this major airport.

The protection of the fuel tank farm expansion is just as critical. Six storage tanks hold over 14 million gallons (52 million liters) of JET-A Fuel. A special hazard project of this magnitude demanded an ANSUL fixed foam system using fixed-foam discharge outlets for the protection of two tanks and three dike containment areas.

Following NFPA 11 guidelines, two ANSUL Foam Chambers were supplied per tank. These air-aspirating discharge devices were used for the protection of flammable liquid storage tanks and 48 foam makers were supplied for each of the tank containment areas. An ANSUL Balanced Pressure Pump Proportioning System (Pump Skid) and six 5,500 gallon (20,820 L) atmospheric foam storage tanks were chosen for delivering the ANSULITE 3% AFFF foam solution to the hazard areas.

A full line of quality equipment, foam concentrates, design assistance and field start-up support services are crucial for the success of large long-term projects such as the tank farm expansion.