



NES was selected to fabricate an integrated SVE/Air Sparge remediation system for an active airport in New England where extensive jet fuel contamination was present. The system enclosure and related exterior mounted components were required to meet very stringent FAA and property owner requirements.

Design Parameters

Site Contaminants	Weathered jet fuel
SVE System	500 acfm at 52 inches wc vacuum at the manifold connections with catalytic oxidizer for vapor treatment
Sparge System	195 scfm at 22 psi at the manifold connections
Site Power	480 VAC, 3 phase
NEC Area Classification	SVE - Class 1, Division 2 Sparge - Non-Classified

System Equipment

SVE	Rotary lobe positive displacement blower (15 hp)
Off-Gas Treatment	Catalytic oxidizer (electric operation)
Sparge	Rotary claw compressor (25 hp)
Controls	Relay based with wireless cellular auto-dialer for remote telemetry
System Enclosure	Steel cargo shipping container (exterior 48 feet x 8 feet x 9.5 feet)