

Sub Slab Ventilation System Shed
Enclosure with Steel Exterior
NES 09-201



NES was selected to fabricate an integrated Sub Slab Ventilation System for a manufacturing facility in Connecticut with indoor air contamination. To meet site restrictions a shed enclosure with a steel exterior and water-resistant flooring was required.

Design Parameters

Site Contaminants	Chlorinated Hydrocarbons
SSVS Operation:	300 acfm at 50 inches water vacuum at the blower inlet and 15 inches water pressure at blower discharge (<i>elevated pressure to compensated for selected specified VGAC vessels</i>)
Site Power:	460 VAC, three phase
Classification:	Non-classified interior with TEFC Motors

System Equipment

SVE	Regenerative Blower, 7.5hp, 460VAC TEFC with VFD
Off-Gas Treatment	Vapor Phase Carbon Adsorbers (existing by others)
Sparge	Rotary vane compressor (10 hp)
Controls	EOS Based PLC Relay based with time delay circuits for operation via generator
System Enclosure	Steel Exterior Shed, (exterior 12 feet x 8 feet x 9.5 feet)