Decontamination & Decommissioning Products
from TMI to Fukushima ...........


............. and many places in between

• Since 1981, the Pentek group of companies has supplied the global nuclear industry
US Commercial D&D Projects
Major decontamination and decommissioning works

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US DOE & Defense D&D Projects

Pentek equipment is present at 2/3 of all DOE sites

- Hanford (Washington)
- INEL (Idaho)
- Savannah River (South Carolina)
- Los Alamos NL (New Mexico)
- Lawrence Livermore NL (California)
- Argonne National Lab (Illinois)
- Brook Air Force Base (Texas)

- Knolls Atomic Power Lab (New York)
- Bettis Atomic Lab (Pennsylvania)
- Plum Brook (Ohio)
- Rocky Flats (Colorado)
- Fernald (Ohio)
- Oak Ridge (Tennessee)
International D&D Projects
Reactors, defense and commercial facilities

- Sellafield (UK)
- BR-3 (Belgium)
- Latina (Italy)
- ARE Project, LTSF D&D (Malaysia)
- TRR (Taiwan)
- Chalk River (Canada)
- Whiteshell (Canada)
- Al Tuwaitha (Iraq)
Fukushima-Related Supply

Pentek first visited Japan in October, 2011

- JAEA: standard decontamination system
- IHI: custom vacuum head for integration with specialized forest remediation system
- TEPCO: Unit 3, 5FL decontamination robots
Fukushima Unit 3, 5FL MOOSE®

First aerial delivery of decontamination capability
Fukushima Unit 3, 5FL MOOSE®

Delivery of 3 independent, remotely operated machines
Fukushima Unit 3, 5FL MOOSE®

Delivery included 100% independent utility skids

For Vacuum MOOSE®

For Scabbling MOOSE®
Fukushima Unit 3, 5FL MOOSE®

Nov. 2013 deployment of Blade MOOSE® to 5FL

Source: TEPCO
Nov. 22nd, 2013

Source: TEPCO
Nov. 22nd, 2013
Fukushima Unit 3, 5FL MOOSE®

Effective remote decontamination of reactor cover

Composite photograph

Source: TEPCO
Jan. 31st, 2014
Products for D&D Contractors

Pentek products are for professionals; not consumers

- 1-step mechanical surface decontamination tools cut and remove contaminated surfaces:
  - Structural concrete and steel surfaces
  - Painted surfaces
  - Sensitive architectural surfaces
- Integrated vacuum collection and packaging
- Weatherproof and decontaminable construction
Decontamination Tools

Dustless, effective control of airborne emissions

Roto Peen® Cushioned Abrasive Wheel

Squirrel® II Crack Chaser

Squirrel® III Floor Scabbler

Corner Cutter®

Squirrel® I Scabbler

Pentek Decontamination Technology, 33 years of service to the nuclear industry.
VAC-PAC® Collection Systems

HEPA filtered, high flow, low maintenance

Standard VAC-PAC®  Custom VAC-PAC®  Self-Disposing VAC-PAC® Module
Remote Deployment Schemes

Floors and walls, or new aerial deployment

- Standard MOOSE®
- WallWalker®
- Aerial MOOSE®
Demolition Equipment

Modifications for hazardous work locations

WallSaw®

Modified Cat® 350

Modified 900mm Shear

Pentek Decontamination Technology, 33 years of service to the nuclear industry.
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