

Environmental Radiological Assistance Directory Web Conference

D&D Knowledge Management Information Tool

www.dndkm.org

June 27, 2012

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Research Scientist

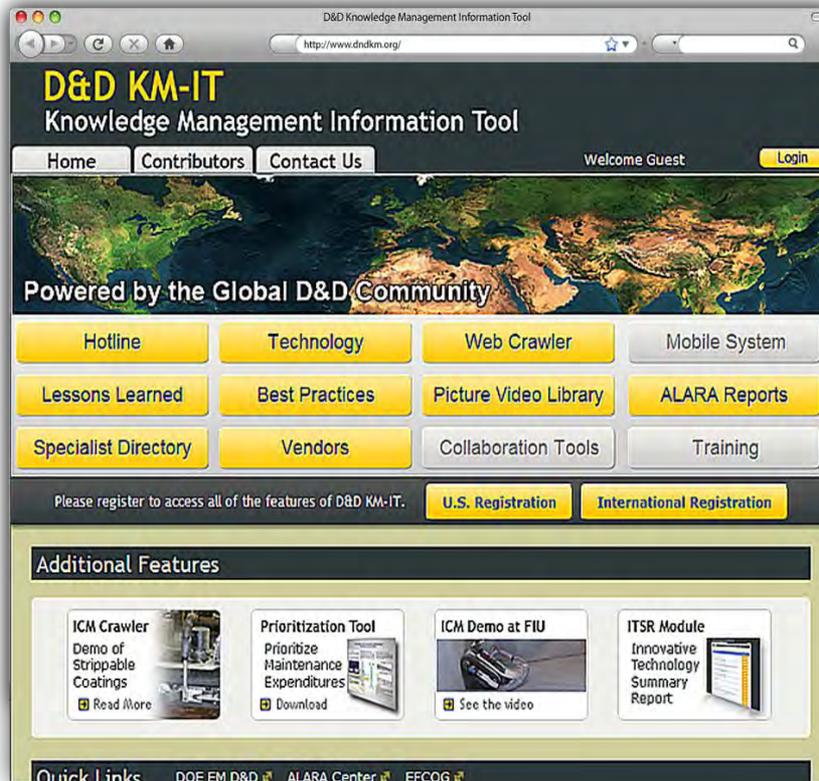
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A web-based knowledge management information tool custom-built for the D&D user community by FIU-ARC in collaboration with DOE, EFCOG, and the DOE ALARA Centers.

Developed by:

In Collaboration with:



- Applied Research Center at Florida International University (FIU)
- Department of Energy (DOE EM)
- ALARA Center (Savannah River)
- Energy Facility Contractor Group (EFCOG)

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Scope and Objectives



To prevent the loss of D&D knowledge and expertise that has been gained over the years by employees and contractors of DOE for the future workforce.



To collect, consolidate and share this valuable information in a universally available and easily usable system.



To provide single-point access into the collective knowledge-base of the D&D community within and outside of the U.S. Department of Energy

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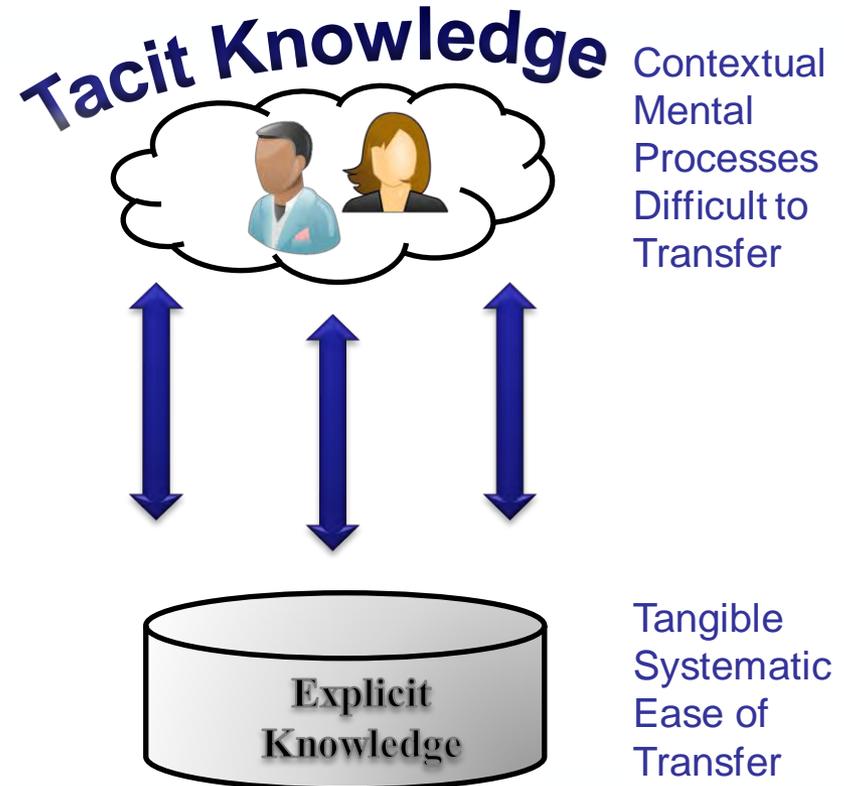


What is Knowledge?

Data represents observations or facts without context. **Information** results from placing data within some meaningful context. **Knowledge** is that which we believe and value, based on the meaningfully organized accumulation of information through experience, communication or inference.

Tacit knowledge is subconsciously understood and applied, difficult to articulate, developed from direct experience and action, and usually shared through highly interactive conversation and shared experience.

Explicit knowledge can be more precisely and formally articulated. It can be more easily codified, documented, transferred or shared.



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What is Knowledge Management?

- Knowledge Management comprises of activities to identify, represent, disseminate, and utilize knowledge (information and experience).
- Knowledge Management system, therefore, refers to a system of managing knowledge. Such a system supports the creation , capture, storage and dissemination of information and enables users to have ready access to the base of facts, sources of information and solutions.

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Importance of KM to EM

- A significant portion of the EM workforce (including DOE and contractors) is nearing retirement age.
- KM aids in the retention of knowledge and experience when employees leave providing cross-generational knowledge transfer to the future work force.
- KM provides a centralized location of data and information, improving time management of users.
- KM allows experiences to be captured and shared with Lessons Learned and Best Practices.
- KM reduces redundant work by helping users avoid re-inventing the wheel.
- KM allows the sharing of valuable information throughout the organization.

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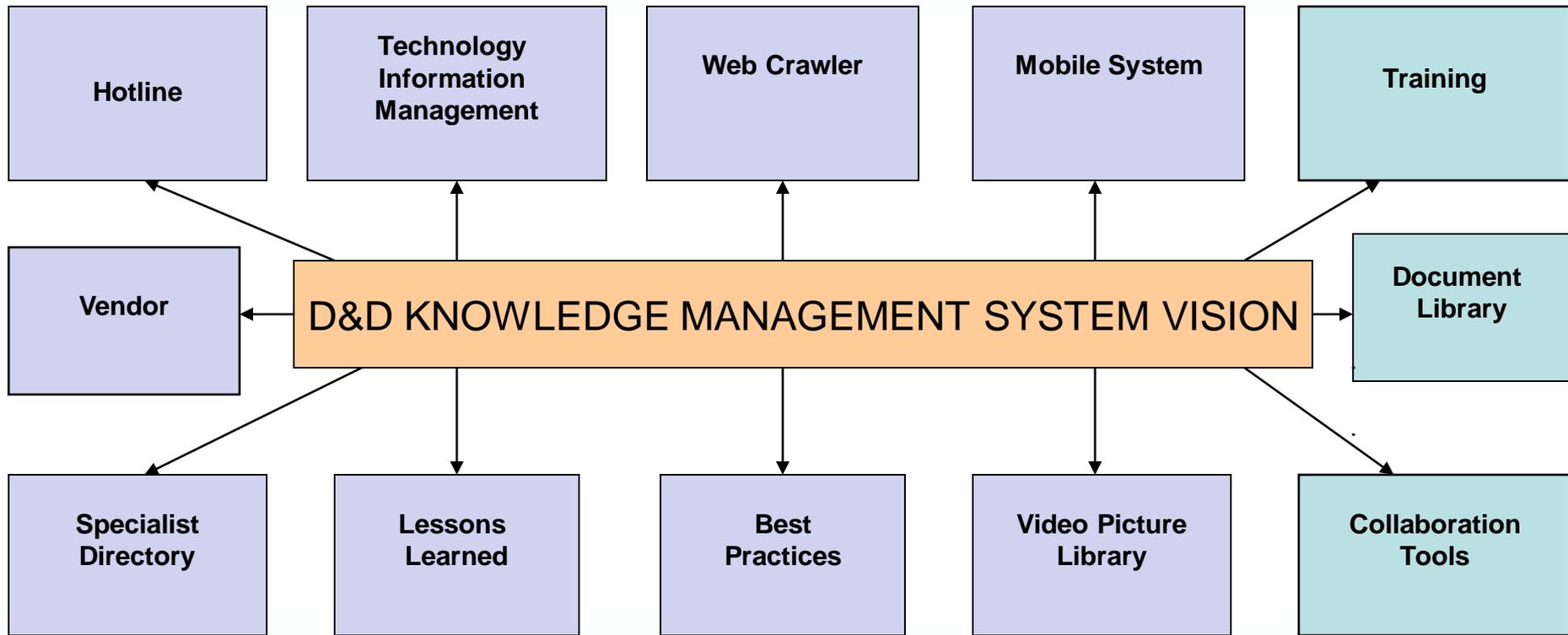
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D&D Knowledge Management System Vision



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D&D KM-IT is a web-based knowledge management information tool custom built with a modular approach for the D&D community. Various features of the system are as follows:

- **Hotline-** Hotline allows the D&D community to post problems in a specific D&D area and get solutions from the subject matter specialists. Users can also search for previously published problems and their solutions.
- **Technology -**Technology provides information on D&D related technologies and any associated demonstrations. It provides technology descriptions, benefits, limitations, and associated links and documents. It also provides vendor information, technology and demonstration fact sheets, and search capabilities.

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- **Web Crawler-** Custom D&D web crawler searches and retrieve information from D&D related websites. The crawler provides the user with a list of the best-matching web pages, usually with a short summary containing the document's title or parts of the text.
- **Mobile System-** Mobile system provides access to important D&D KM-IT features through wireless devices. The D&D community users will be able to access the hotline, technology information, specialist directory, lessons learned titles, news/alerts, announcements, events calendar, and vendor information on their wireless devices. This can be accessed from <https://m.dndkm.org>
- **Training-** Training component will provide training videos related to D&D work, ALARA Centers' training material and custom training for the D&D community.

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- **Collaboration Tools** -Collaboration tools will provide information-sharing mechanisms such as D&D news, events calendars, links, message boards, and frequently asked questions (FAQs), wikis and blogs. This will allow the D&D community to interact with fellow members.
- **Specialist Directory**- Specialist Directory provides a directory of D&D specialist in different areas along with their contact information. The user can search the Specialist Directory by name or by area of interest.
- **Lessons Learned**- Lessons Learned provides a repository of documents published by the D&D community users. This will allow them to share their experience with the community.

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- **Best Practices** - Best practices provides a repository of D&D best practices documents that the user community can upload to the system.
- **Video Picture Library**-Video/picture library allows community users to upload D&D technology and demonstration videos and pictures to the D&D KM-IT system. The videos and pictures could then be viewed by the D&D community.
- **Vendors** - Vendor management provides a directory of D&D vendors along with their contact information and area of expertise.
- **Document Library**-Weekly reports published by the ALARA center include the status of the D&D activities that have taken place at various centers. It includes the list of ALARA center activities for consecutive weeks. This feature makes the reports available to the entire D&D user community.

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D&D KM-IT
Knowledge Management Information Tool

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Powered by the Global D&D Community

Hotline	Technology	Web Crawler	Mobile System
Lessons Learned	Best Practices	Picture Video Library	ALARA Reports
Specialist Directory	Vendors	Collaboration Tools	Training

Please register to access all of the features of D&D KM-IT. [U.S. Registration](#) [International Registration](#)

Additional Features

<p>ICM Crawler Demo of Strippable Coatings Read More</p>	<p>Prioritization Tool Prioritize Maintenance Expenditures Download</p>	<p>ICM Demo at FIU See the video</p>	<p>ITSR Module Innovative Technology Summary Report</p>
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Quick Links [DOE EM D&D](#) [ALARA Center](#) [EFCOG](#)

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Hotline

Search

Post Problem

Help

The Hotline module allows interested users to post questions/problems related to specific area of interest in the area of decontamination and decommissioning (D&D). The question/problem will be routed to a preselected subject matter specialist (SMS) who, based on his/her experience, will provide a technical solution to the posted question/problem. The provided answer will be posted on a web portal after content coordinator (CC) review.



D&D Hotline

☎ 865.576.8771

Post Problem
Online

Search Hotline

Start searching the Hotline

Start Your Search Now

View All Problems

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Links and Support

Technical Support

Please [contact our technical team](#) for questions regarding system features, access, functionality and more.

Share / Save

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Help

Search

My Submitted Problems
 My Managed Problems
 Published Problems

Functional Group :

Functional Category :

Search For :

Status :

Results Per Page:

SEARCH



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Design and Development by
Applied Research Center at Florida International University
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My Submitted Problems
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Functional Group :

Functional Category :

Search For :

Status :

Results Per Page:

SEARCH

11 Records Found

Advanced Search Results

- * [Fixatives for Single-Shell Valve Pit Covers](#) Submitted to SMS
 Looking for fixatives that can be used to seal openings and crevices in single-shell valve pit covers....
 Category:Deactivation & Decommissioning->Worker Safety
 Entered: 3/11/2008 12:10:48 AM Last Updated: 3/5/2010 2:56:37 PM # of Solutions: 1
- * [Fixatives for Worker Entry](#) Published
 Decontaminating a 500 sq ft area in a PNNL facility. Require fixatives that can be used to cover this contamination before workers entered the room. ...
 Category:Deactivation & Decommissioning->Decontamination
 Entered: 3/11/2008 1:02:08 AM Last Updated: 3/19/2008 1:05:27 PM # of Solutions: 1
- * [Paint Flaking at a Large Contaminated Facility](#) Published
 A large facility that is highly contaminated has paint flaking off the walls, ceiling and floors. The lower portion of the building is concrete with two large towers that are made of steel. Please advise with regards to suitable fixatives. ...
 Category:Deactivation & Decommissioning->Decontamination
 Entered: 3/11/2008 1:40:56 PM Last Updated: 3/26/2008 9:44:46 AM # of Solutions: 1
- * [D&D of a Highly Contaminated Incinerator](#) Published
 Savannah River Site SRS has an incinerator which the interior is a High Contamination Area. It is lined with bricks "like a fireplace" and has residual ash. SRS needs expertise in selecting a fixative to fix the residual ash and contaminated brick. ...
 Category:Deactivation & Decommissioning->Decontamination
 Entered: 3/11/2008 2:24:08 PM Last Updated: 3/19/2008 2:44:38 PM # of Solutions: 1
- * [Fixative Recommendation for Metal Corrugated Bldg](#) Published
 Could you please help identify the best fixative/coating products to apply to the exterior of a corrugated metal building that has both rust and flaking paint? We plan to test at least 3 products and the fixative/coating would need to last until D&D ...
 Category:Deactivation & Decommissioning->Decontamination
 Entered: 6/23/2008 2:55:52 PM Last Updated: 7/7/2008 4:02:54 PM # of Solutions: 1

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Hotline Search Post Problem Help

Work Flow Menu:

[Submit to Coordinator](#) [Revert to SMS](#) [Publish](#) [Reject](#) [View Workflow](#)

Problem Information

Fixative Recommendation for Metal Corrugated Bldg

Status : Published Problem entered 6/23/2008
Problem updated 7/7/2008

Problem Category Deactivation & Decommissioning > Decontamination

Problem Description:

Could you please help identify the best fixative/coating products to apply to the exterior of a corrugated metal building that has both rust and flaking paint? We plan to test at least 3 products and the fixative/coating would need to last until D&D of the building in approximately 3 years. A response to an earlier peeling paint problem mentioned that Kool Seal is recommended by Oak Ridge. Can you provide a contact or project name for that recommendation?

Applicable Project(s): [Add Projects](#) [Manage Projects](#) **Problem Link(s):** [Add Link](#)

[\(0000\) Not Applicable](#)

Problem Contact: [admin admin](#)

Problem Document(s): [Add Document](#)

- [Building Photo 1](#)
- [Building Photo 2](#)
- [Building photo 3](#)
- [Building Photo 4](#)

Solution(s) for Posted Problem [Add Solution](#)

- [Fixative Solution for Metal Corrugated](#)

Comments:



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Hotline Problem Picture

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Hotline Search Post Problem Help

Work Flow http://localhost/dndkm/DOEKMDocuments/General/213-100_0305.jpg - Windows Internet Explorer

http://localhost/dndkm/DOEKMDocuments/General/213-100_0305.jpg

Problem
Fixative
Status : Problem

Problem
Could you building need to mention recomment

Applicable
[\(0000\) N](#)

Problem
[admin.adr](#)

Solution
Fixative

Comments



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Technology Home

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Help

The technology module provides comprehensive information on D&D related technologies, including associated technology demonstrations and commercial vendors. It also includes technology descriptions, benefits, limitations, and associated links and documents. The objective of this feature is to create, maintain and enhance the technology information repository for D&D applications, including characterization, decontamination, dismantlement, and worker health and safety.

The user may search for technologies using a basic text string search or perform an advanced search. The basic search allows the user to input a simple word or phrase (e.g., diamond wire saw) to return the applicable technologies. The advanced search enables the user to narrow their search by technology category or application.

Technology



Demonstration



Search Technology

Start searching the Technology module

Start Your Search Now

View All Technologies

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Links and Support

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Technology Home | **Search** | Links | Help | Technology | Vendor | Technology Approval

Advanced Search

Technology Category Group:

Application Category Category:

Vendor Subcategory:

Search String: Demonstrated 5 results

40 Records found

Advance Search Results

[2-D Linear Motion System](#)
Two-dimensional linear motion systems can be used to semi-robotically operate tools or instruments on surfaces. A two dimensional system, the Pentek, Inc. (Coriapolis, PA) 2-D Wall Walker was demonstr [...more](#)
Source : Hanford C-Reactor
Category : Characterization > Monitors > Radiation Monitors [Similar Pages](#)
Vendor : [Pentek, Inc.](#) Demonstrated

[Airborne Laser-Induced Fluorescence Imaging](#)
LIF is an optical technique that consists of two major components: one comprised of the laser, a close-coupled device (CCD) camera and monitor which were mounted on a tripod, and the other consisting [...more](#)
Source : Fernald Environmental Management Project
Category : Characterization > Monitors > Radiation Monitors [Similar Pages](#)
Vendor : [Special Technologies Laboratory](#) Demonstrated

[Alpha Sentry CAM System](#)
The spectroscopic algorithm (which uses a stripping method instead of ROIs) is extremely effective at subtracting out the radon daughter interference from the transuranic region of interest. This phys [...more](#)
Source : Catalogs
Category : Characterization > Sampling & Analysis Equipments > Analysis Equipment [Similar Pages](#)
Vendor : [Canberra Industries, Inc.](#)

[Beta Fiber-Optic Sensor for Detecting Strontium-90 and Uranium-238 in Soil](#)
The BetaScint(TM) sensor is designed to measure beta emissions from Sr-90 and U-238 in soils. The sensor is 150x35x8cm; it can measure contamination of the soil surface or of a soil sample spread over [...more](#)
Source : Laboratory for Energy-Related Health Research
Category : Characterization > Sampling & Analysis Equipments > Analysis Equipment [Similar Pages](#)
Vendor : [BetaScint, Inc.](#) Demonstrated

[Compact Subsurface Soil Investigation System](#)

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2-D Linear Motion System

Category : Characterization > Monitors > Radiation Monitors
Reference # : OST 1476 DOE/EM-0403 **Model No :** 2-DLMS

Description

Two-dimensional linear motion systems can be used to semi-robotically operate tools or instruments on surfaces. A two dimensional system, the Pentek, Inc. (Coriapolis, PA) 2-D Wall Walker was demonstrated at the Hanford Demonstration Site C Reactor complex. Such systems are suitable for high flat (or slightly curved) walls. The motor-driven pulleys can be attached to the wall temporarily with magnetic force for steel walls, or with anchors or vacuum force for concrete walls. For locations with no ceiling in the way, the pulleys can be attached to standoffs above the wall, thereby allowing the end effector to reach the full height of the wall. Similarly, if there are no sidewall restrictions, the standoffs can be positioned to allow reaching the full wall width. The operator can command the system to traverse any two-dimensional path at constant speeds up to 60 feet per minute. This technology makes it possible to deploy completely automated work modules to large vertical surfaces, while eliminating scaffolding, respiratory protection, and other safety equipment required to protect human workers. Equipment weighs only 55 pounds (20 kg); a single laborer easily handles the operation. Once installed, the initial setup parameters are entered into an IBM-compatible computer via an easy to use touch-screen, and the operator can command the machine to traverse any path at velocities of up to 60 feet per minute (18 M/min). Hands-on operator activities are eliminated, as well as scaffolding, respiratory protection, and other forms of personnel protection and support. Dimensions of Tech Model (L x W x H): Weight of Tech Model (lb.): 350lb Pulley : 50 lb

Benefits

More accurate and consistent scanning conditions for surveys Improved production rates for large walls Payload capacity at least 300 lb Accurately positions instruments and tools repeatedly Remote operation provides improved ALARA For radiation surveys, the controller software could be adapted to provide maps showing the location of measured radiation levels.

Limitations

A variety of tool holders need to be developed. Pentek has a few designs completed The technology is not well suited to walls that have many protrusions; rather it works better on flat or slightly curve surfaces Pentek now can apply the technology to floor and ceilings

Vendor Information

[Pentek, Inc](#)

Demonstrations

- [Concrete Wall](#)

Pictures




[2D Linear Motion](#) [Remote control station](#)

Documents

Title: [1476-Linear Motion.pdf](#) (Posted: 09/25/2002)
Description: Innovative Technology Summary Report

Video

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Technology Name : [2-D Linear Motion System](#)

Demonstration Name : Concrete Wall **Demonstrated on** 9/22/1997

Demonstration Site : Hanford C-Reactor

Demo Objective

Characterization of the outer wall of the C reactor front face work area *The wall involved were 47 ft high by 14 to 60 ft wide, and has previously been surveyed only near ground level up to 8 ft high.

Pictures



[Two linear motion](#)



[2D Linear motion during demonstration](#)

Demo Results

The technology is suitable for DOE nuclear facility D&D sites or any other sites involving D&D or remediation activities in contaminated areas. Also, the technology inherently reduces the potential for personnel falling from lifts and scaffolds and for exposure to radioactive or chemical contamination

Contact Information

Name : Stephen Pulsford
Phone : (631) 344-2394
Email : pulsford@bnl.gov

Documents

Video



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Technology Home | **Search** | Links | Help | Technology | Vendor | Technology Approval 8 Records found

Vendor Information

Vendor Name : Pentek, Inc
Address : 1026 Fourth Avenue , Coraopolis , Pennsylvania , United States 15108
Phone : 412-262-0725 **Phone 800 :** **Fax :** 412-262-0731
Email : pentekusa@aol.com **WebSite :** <http://www.pentekusa.com>
Comments :

[Exit](#)

Technology by Vendor

[2-D Linear Motion System](#)
 Two-dimensional linear motion systems can be used to semi-robotically operate tools or instruments on surfaces. A two dimensional system, the Pentek, Inc. (Coraopolis, PA) 2-D Wall Walker was demonstr [...more](#)
Source : Hanford C-Reactor
Category : Characterization > Monitors > Radiation Monitors **Demonstrated**

[Pentek Decon System MOOSE, SQUIRREL-III, SQUIRREL-I, & CORNER CUTTER](#)
 The MOOSE is a remotely operated floor scabbler designed to scarify large concrete floor slabs in environments that require strict control of airborne contamination and debris. The MOOSE scabbler utili [...more](#)
Source : Applied Research Center (formerly HCET)
Category : Decontamination > Chemical Surface Cleaning > Biological/Microbial Degradation **Demonstrated**

[Remotely Operated Scabbling](#)
 The Pentek, Inc., remotely-operated scabbler, the Moose ®, is designed to scarify large concrete floors and slabs in environments which require stringent control of airborne contamination and debris. [...more](#)
Source : TMS Technology Database
Category : Decontamination > Mechanical Surface Removal > Scabbling , Mechanical **Demonstrated**

[ROTO PEEN Scaler and VAC-PAC SYSTEM](#)
 The ROTO PEEN Scaler and the VAC-PAC waste collection system, is a fully developed and commercialized technology used to remove hazardous coatings from concrete and steel floors, walls, ceilings, and [...more](#)
Source : Chicago Pile-5 Reactor
Category : Decontamination > Mechanical Surface Removal > Scabbling , Mechanical **Demonstrated**

[ROTO-PEEN Scaler](#)

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Pentek Decon System MOOSE, SQUIRREL-III, SQUIRREL-I, & CORNER CUTTER

Category : Decontamination > Chemical Surface Cleaning > Biological/Microbial Degradation

Reference # : Model No : Pentek Decon System

Description

The MOOSE is a remotely operated floor scabbler designed to scarify large concrete floor slabs in environments that require strict control of airborne contamination and debris. The MOOSE scabbler utilizes a highly effective, single-step floor scarification process with an integrated vacuum control. The scabbling head houses seven independent reciprocating tungsten carbide-tipped bits to remove protective coatings and concrete substrates. The bits pulverize the surface by delivering 1,200 hammer impacts per minute through pistons driven by compressed air. Dust and debris are captured by the on-board 23 gallon HEPA vacuum system. The six-wheel chassis is powered by dual DC motors. The SQUIRREL-III is designed to tackle small jobs and to get into tight spaces near corners, wall/floor joints, floor joints, floor penetrations, equipment pedestals, steps, and under protruding equipment. The SQUIRREL-III uses high-speed, reciprocating tungsten-carbide tipped bits to pulverize protective coatings and concrete substrate in a single-step process. The SQUIRREL-III is a manually operated pneumatic scabbler that operates in conjunction with a HEPA vacuum system. The SQUIRREL-I is a single piston, air-driven scabbler with localized exhaust; it is ideal for spot remediation in deeply settled hot areas. The SQUIRREL-I is a manually operated, hand-held scabbler similar in function to the SQUIRREL-III. The CORNER CUTTER is a hand-held pneumatically operated shrouded needle scaler that operates in conjunction with a HEPA vacuum system. Multiple hardened steel needles operate within an evacuated stainless steel shroud, which prevents the release of dust, debris, and airborne contamination. Standard shrouds allow the unit to conform to inside and outside corners and flat surfaces. Dimensions of Tech Model (LxWxH): MOOSE: 68" x 31" x 70" SQUIRREL-III: 12" x 6" x 12" SQUIRREL-I: 12.7" x 2.3" x N/A CORNER CUTTER: 14" x 1.75 x N/A Weight of Tech Model (lb): MOOSE: 1650 lbs. SQUIRREL-III: 50 lbs. SQUIRREL-I: 40 lbs. CORNER CUTTER: 9 lbs.

Benefits

The Pentek Decontamination System is fully integrated with a vacuum and dust collection system. Fully contained system; no airborne dust escapes during operation. There are many commercial units available. System requires minimal time to set up and operate. System can be adjusted to remove a selected amount of surface. The SQUIRREL-III and I models and the CORNER CUTTER can reach edges and corners. The MOOSE is remotely controlled, reducing operator fatigue. The MOOSE has a built-in HEPA vacuum.

Limitations

The surface of the concrete must be dry for the equipment to operate. If wet, the debris becomes wet and may dog the machine. Steel reinforcing will damage the tungsten-carbide bits. The MOOSE requires significant maintenance activities due to the large amount of force

Pictures




Pentek MOOSE Pentek MOOSE

Documents

Video

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Technolo... <http://localhost/dndkm/DOEKMDocuments/GetMedia/Technology/101-Pentek.jpg> - Windows Internet Explorer

Pentek CORNER

Refere...

Description
 The MOOS require str floor scarif reciprocate the surface debris are motors. Th floor joints high-spee single-ste a HEPA va spot reme function to that opera evacuated shrouds al (LxWxH): 1 x 1.75 x N, CUTTER: 9

Benefits
 The Pente with a vac system; n There are requires n be adjust SQUIRREL reach edg controlled built-in HE

Limitatio

The surface of the concrete must be dry for the equipment to operate. If wet, the debris becomes wet and may clog the machine. Steel reinforcing will damage the tungsten-carbide bits. The MOOSE requires significant

Video



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WallWalker 3D

Category : Decontamination > Mechanical Surface Removal > Scabbling , Mechanical

Reference # : **Model No :** WallWalker 3D

Description

The WallWalker head, an ultra consists of a heart of the m be configured Windows 95 t it's path of m moved along i line help, as w or unsafe are. hazardous co single-piston : scabblers can VAC-PAC ultra efficient remo with a second first stage filte clogging, and The monorail i important saf brake pin on e using an AC v trolleys also ir



Benefits

Unit is remote labor intensiv respiratory pr very manuev the scabbling another secti large areas.

Limitations

When used ir considerably Walls have to side in order locations the completely re

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Technology Name : [WallWalker 3D](#)

Demonstration Name : Coating Brick Wall **Demonstrated on** 8/21/1998

Demonstration Site : Applied Research Center (formerly HCET)

Demo Objective

Decontamination of Brick with an epoxy polyamine coating primer of 7 mils Ply-Mastic and 1.5 mils Ply-Thane 890 HS. Two adjacent coated brick walls with the dimensions of 231" x 119.5" and 238" x 119".

Demo Results

The WallWalker is remotely operated and therefore does not require intensive labor to operate. The unit is able to conduct aggressive removal on coated concrete walls and coating removal on brick walls. However, the demonstration of aggressive removal on the coated brick wall was unsuccessful.

Contact Information

Name : Marshall Allen
Phone : (305) 348-4238
Email : mallen@hcet.fiu.edu

Pictures




3D WallWalker

VAC-PAC used with WallWalker™

Documents

Title: [WallWalk yr2_Report.pdf](#) (Posted: 09/16/2002)
Description: Human Factors Assessment Report

Video



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[Click Technology list box to add or modify technology.](#)

Select Technology: 2-D Linear Motion System

Vendor: Pentek, Inc

Model Number: 2-DLMS

Reference No: OST 1476 DOE/EM-0403

Group: Characterization

Technology Category: Monitors

Technology Sub Category: Radiation Monitors

Application Category: Masonry

Application SubCategory: Concrete

Technology Source: Hanford C-Reactor

Technology Name: 2-D Linear Motion System

Description: Two-dimensional linear motion systems can be used to semi-robotically operate tools or instruments on surfaces. A two dimensional system, the Pentek, Inc.

Benefits: More accurate and consistent scanning conditions for surveys
Improved production rates for large walls

Limitations: A variety of tool holders need to be developed. Pentek has a few designs completed
The technology is not well suited to

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Technology Name	Description	Entered On
150 Beacon Locating Equipment	The 150 Beacon Locating Equipment works with a wide range of Ditch Witch electronic locators to help	2/3/2010 View Approve
150R/T	The 150R/T can help up you locate underground utilities in order to avoid damage due to excavation.	2/3/2010 View Approve
2150GR Ground Penetrating Radar	The Ditch Witch 2150GR can detect both metallic and non-metallic pipes and cables to depths of up to	2/3/2010 View Approve
250R/T	The Ditch Witch 250R/T Locating System can be used for locating and avoiding buried telephone, CATV,	2/3/2010 View Approve
31" Shoulder-length Best@ Heavyweight Neoprene Work Gloves	Best's shoulder-length gloves are created for demanding applications involving a wide array of chemi	1/19/2010 View Approve
3M Face Protection	The 3M face protection are designed to be used with other 3M™ Safety Products. When properly used, t	11/3/2009 View Approve
3M Hearing Protection	3M's full-line of Hearing Protection Products feature solutions that help reduce noise exposures by	11/3/2009 View Approve
480B Pipe & Cable LocatorTM	The 480 B can be used for locating pipes and cables. The base model includes: transmitter, receiver	2/5/2010 View Approve
505 "GO-FER" Pipe and Cable Locator	This type of locator is widely used by gas distribution, pipeline and power companies to locate and	2/8/2010 View Approve
810 Classic Model 810 Pipe & Cable Locator	The 810 classic model is used for locating pipes and cables. This product includes a transmitter, re	2/8/2010 View Approve
850 Pipe and Cable Locator™	The 850 is a pipe and cable locator which includes a transmitter, receiver, conductor attachments, g	2/8/2010 View Approve
880B Ferromagnetic Metal Detector	The 880B Ferromagnetic Metal Detector is a pipe and cable locator which includes a receiver, soft ca	2/8/2010 View Approve
910R Pipe and Cable Locator	The 910R can be used for locating pipe, cable, or non-directional beacons. It comes standard with up	2/3/2010 View Approve
950R/T Pipe and Cable Locator System	The 950R/T system includes three modes and more than 20 frequencies, which help you to quickly locat	2/3/2010 View Approve
9860DLXT Dual Frequency Line Locator	The 9860DLXT Dual Frequency Line Locator is a pipe and cable locator, sonde locator, and fiber optic	2/8/2010 View Approve
Abrasive Blasting Technique	This technology consists of a portable blast cleaning system, normally used to prepare concrete surf	10/13/2009 View Approve

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The user may search for vendors using a basic text string search. The basic search allows the user to input a simple word or phrase (e.g., full or partial vendor name or area of expertise) to return the applicable vendors.

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2K Manufacturing LTD [View Details](#)

Address:
Preservation House, Airport Way
Luton, Not Available(Eng) LU2 9LF United Kingdom

Phone: +44-0-1582 437 170 **Toll Free:** **Fax:** +44-0-1582 411 669

Email: info@2kmail.com

Website: www.ecosheet.com/

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Vendor Details

3DX-RAY Ltd

Address:
16-18 Hayhill
Barrow Upon Soar, Leicestershire LE128LD United Kingdom

Phone: (44) 1509 817400 **Toll Free:** **Fax:** (44) 1509 817401

Email: n.fox@3dx-ray.com

Website: www.3dx-ray.com

Description:
3DX-Ray Ltd is has advanced x-ray inspection systems for the nuclear and security markets. They providing both standard and custom solutions. 3DX-RAY offers a range of standard fixed and portable x-ray imaging system and x-ray components (HV generators, x-ray tube heads, x-ray monoblocks and x-ray system controllers). They also offer a range of portable, high resolution x-ray inspection systems for the in-situ inspection of plant, products or containers.

Area of expertise:
Non-Destructive Examination, Other

Additional Expertise:

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The specialist directory allows users to find a D&D expert through the search criteria by entering his/her name or the area of expertise into the search field. The results provide contact details, such as name, address, phone number, organization, email, discipline, and areas of expertise.

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FullName: Leo Lagos
Title: Sr. Research Scientist [View Details](#)
Organization: Applied Research Center
OfficePhone: 305-348-1810
Email: lagosl@fiu.edu
Expertise Area:
Cutting & Size Reducing,Deactivation Planning,Decontamination,Dismantlement,Fixatives & Coatings,High Pressure Cleaning,Mobile Platforms,Remote Pipe Decon,Robotics & Remote Technology,Sensor & Instrumentation,Video & Mobile Platforms,Large Scale Decon & Demolition

FullName: Jeff Hunter
Title: Hanford ALARA Center [View Details](#)
Organization: CHPRC
OfficePhone: 509-373-0656
Email: jeffrey_j_hunter@rl.gov
Expertise Area:
ALARA Controls,Characterization,Containment,Decontamination,Fixatives & Coatings,Gamma Cam Modeling,Grout Fill of Pipes Cells and Basins,HEPA & Special Filtration Systemms,Presonnel Protective Equipment,Portable Vaccum Systems,Radiation Controls,Remote Pipe Decon,Robotics & Remote Technology

FullName: Larry Boing
Title: Manager, Special Projects [View Details](#)
Organization: ANL
OfficePhone: 630-252-6729
Email: lboing@anl.gov
Expertise Area:
Asbestos Removal,Boring and Drilling,Characterization,Chemical Contaminant Cleanup,Computer Modeling,Concrete and Rubblization,Containment,Cutting & Size Reducing,Deactivation Planning,Decontamination,Demolition,Dismantlement,End Points Development,Entombment,Excess Equipment Disposition,Fixatives & Coatings,Gamma Cam Modeling,Grout Fill of Pipes Cells and Basins,Hazardous Material Disposal,HEPA & Special Filtration Systemms,High Pressure Cleaning,Manipulators,Mobile Platforms,Open Air Demolition,Orders: others,Presonnel Protective Equipment,Portable Vaccum Systems,Radiation Controls,Records Control,Regulations - other:,Remote Excavation,Remote Pipe Decon,Robotics & Remote Technology,Sampling,Secondary Waste

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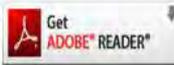
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Decontamination	ARC-FIU HIKER	PRELIMINARY LESSONS LEARNED FROM THE GUNITE AND ASSOCIATED	Make equipment as rugged as possible to avoid mechanical problems. · Consider personnel exposure consequences when designing systems and determining maintenance and procedures. · Maximize visibility with view ports and contamination covers, cameras, and lighting. · Design equipment interfaces	View	Reject	Delete
Dismantlement	FIU- ARC HIKER	San Onofre Unit 1 Lessons Learned	450 Mwe Westinghouse PWR w/3 Primary Loops · Commercial Operation 1968, Shutdown 1992 · Coastal Location, between Los Angeles & San Diego, CA · Shares physical site with SONGS 2 & 3 Units · Co-owned by SCE (80%) and SDG&E (20%) · SONGS 1 Fuel located in SFP, at SONGS 2 & 3 and at Morris, Ill · On Federal land/Lease requires removal of structures	View	Reject	Delete
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    WC --> B52[Best Practices (5.2)]
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    WC --> NA55[News/Alerts (5.5)]
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Search Type

any of the words or all of the words
 Finds a list of words or phrases

- use "quotation marks" around phrases
- add + in front of any word or phrase to require it
- add - in front of any word or phrase or to exclude it
- examples:
 banana pear "apple pie"
 "apple pie" -salad +"ice cream"

exact phrase
 Finds a single phrase (quotation marks are optional)

boolean
 Finds a structured group of words or phrases linked by *and*, *or not*, *w/*.

- examples:
 tart apple pie - the entire phrase must be present
 apple pie and pear tart - both phrases must be present
 apple pie or pear tart - either phrase must be present
 apple pie and not pear tart - only *apple pie* must be present
 apple w/5 pear - *apple* must occur within 5 words of *pear*
 apple not w/27 pear - *apple* must not occur within 27 words of *pear*
 subject contains apple pie - finds *apple pie* in a *subject* field
- use () when a search includes two or more connectors:
 apple and pear or orange juice could mean (*apple and pear*) or *orange*, or it could mean *apple and (pear or orange)*

Search Features

stemming
 Finds grammatical variations on endings, like *applies*, *applied*, *applying* in a search for *apply*

fuzzy searching
 Finds words even if they are misspelled. A search for *alphabet* with a fuzziness of 1 would also find *alphaqet*. With a fuzziness of 4, the same search would find both *alphaqet* and *alpaqet*

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HCET-1996-D038-011-18

TECHNOLOGY ASSESSMENT PROGRAM (TAP)
Integrated Facility Assessments – Facility Dismantlement
Technology Assessment Summary

Conjet Robot 363: Hydrodemolition Concrete Ceiling

DEMONSTRATION OBJECTIVE

AK Services demonstrated the Conjet Robot 363 at HCET during hydrodemolition of concrete ceiling as part of the assessment for Integrated Facility Dismantlement on December 10-21, 2002 and January 7-14, 2002. The purpose of the demonstration was to evaluate the performance of the Conjet Robot 363 with respect to its ability to dismantle concrete structures following the HCET Test Plan especially designed for this purpose.

TECHNOLOGY DESCRIPTION



Figure 1. Conjet Robot 363 during ceiling hydrodemolition.

The Conjet Robot 363: It is a technology designed for concrete removal on walls, ceilings, and horizontal surfaces (Figure 1). The Multi Purpose Arm allows the cutting head to reach further up, further down than what has been possible in previous models.

The Conjet Robot 363 is classified as a selective hydrodemolition equipment, meaning a predetermined removal-cutting path and high speed. The robotic hydrodemolition system consists of a high-pressure waterjet system with a capacity of 62 gallons per minute (gpm) @ 17,500 psi. The waterjet is delivered via special hoses to a robotic applicator that is remotely operated. The robot is capable of performing hydrodemolition and decontamination activities through 360-degree work area. This allows the same applicator to be used for deck work, vertical surfaces, as well as overhead.

Computer Control Panel: Powered by 11kW electric motor, the Robot 363 can handle the rotary and the oscillation tool efficiently. All PCL functions are operated and controlled from a remote control panel. The control panel enables the operator to remotely

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