

UniTRACK

NUCLEAR SERVICES NEWS

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OPG Pickering Station Reduces Waste

Waste reduction and the proper disposal of contaminated items is of principal concern to many UniTech customers, and we are often brought on board to assist with these efforts. Recently, Ontario Power Generation in Canada announced the Aggressive Radwaste Minimization (ARM) Program to reduce the amount of radwaste at the Pickering Station. UniTech initiated a detailed analysis of Pickering Station's waste stream, identified numerous disposable items responsible for approximately 50% of solid radwaste produced at the Station and provided solutions including:

- ProTech oversuits to replace disposable Tyvek® coveralls
- Launderable nylon shoe covers to replace disposables
- Launderable glove liners to replace disposables
- Launderable mops to replace disposables
- Launderable wipers (including UniTech's UltraWipe) to replace disposables



OPG Pickering Station, Ontario, Canada

In addition to the expanded use of launderable products, Pickering Station staff members are emphasizing the importance of separating trash appropriately, posting signs to remind employees of key policies and conducting training sessions to enforce the rules. Past trends indicate that the initiative will yield results: in 2004, Pickering Station washed 100,000 pairs of launderable coveralls, saving significantly on the purchase price of the older disposable Tyveks. Additionally, 50 transport truckloads of radwaste were diverted, providing even greater savings. "The ARM Program lets OPG minimize its impact on the environment and the time spent monitoring and sorting waste, and reduce the cost associated with processing radioactive waste" says Gregg Johnstone, Director, Sales and Marketing at UniTech. ■■

Investing in Facility Expansion

UniTech has invested \$6.5 million in clean laundries for protective nuclear clothing and accessories as well as new tool and metal decontamination capacity. We are now expanding our licensed plants in Morris, Illinois and Royersford, Pennsylvania to manage the growing demand for these services. These new clean "controlled" laundries (with a combined total of 52,000 square feet) should be operational by summer, 2006.



Radiologically, these new clean controlled laundries launder items that don't come in direct contact with radioactivity (towels, undergarments, socks, normal workwear). This new service provides our customers with the assurance that the items are laundered in a clean environment while minimizing potential liability associated with sending out a contaminated item for laundering. ■■



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Smart Solutions

UniTech is releasing several new products that respond to feedback and ideas from our nuclear customers and the UniTech professionals responsible for addressing their changing needs.

Keeping site wear on-site

Keeping apparel from going home with workers is an important customer concern UniTech is aggressively addressing. At a U.S. nuclear power facility approximately two years ago, several workers walked out of the plant wearing contaminated garments.



UniTech's unique Garment Sentry system helps assure that protective apparel – especially undergarments that go unseen – remain on-site.

out of the plant wearing contaminated garments. This incident illustrates the importance of monitoring the use of garments and their return. Workers may be just as likely to accidentally wear contaminated disposable items home, causing even more problems if the worker attempts to dispose of a contaminated garment improperly. "The solution isn't limiting workers to disposable garments," says Gregg Johnstone, Director, Sales and Marketing at UniTech. "Nuclear facilities

need to ensure that all protective wear stays on-site. We're developing the technology to make that happen." In fact, UniTech's new Garment Sentry® and KoolTech undergarments are custom-designed to solve this common problem.

UniTech Garment Sentry: This system helps ensure that your company's protective apparel will not go home with your employees and risk potential contamination situations. Garment Sentry utilizes an advanced EM (electromagnetic) technology in conjunction with diagnostic signal rating and switch capacitor filtering. Encapsulated tags are hidden in seams of garments, and sewn directly against the garment so they cannot be removed. The tags are impervious to commercial laundering, and at only 5 mils thick, are undetectable for garment wearers. Garments will be instantly detected as they pass by receptors in exit portals, and the audible and visual alarm can activate locally or remotely to alert security. Garment Sentry addresses one of the concerns associated with launderable protective wear, allowing managers to save money they would otherwise spend replacing lost garments or keeping an available stock of disposables.

High Tech Undergarments: Workers are as vocal about their preference for comfortable protective wear as our customers are about assuring economy and safety. New KoolTech responds beautifully to all these needs – as well as assuring that these garments stay where they belong – on-site.

Doing The Math: Launderable vs. Disposable Coveralls

Should you invest in long-lasting, launderable protective coveralls, rely exclusively on disposables, or use a mix of the two? We've come up with a way to help managers determine which option is more cost-effective for their needs.

Cost Calculator			
ProTech Nylon Launderable vs. Single-Use PVA or Non-PVA Coverall			
Outage Coverall Use		<input type="text" value="30,000"/>	
Launderable shipment size		<input type="text" value="3,000"/>	
ProTech Nylon Launderable Coverall		Single-Use PVA or Non-PVA Coverall	
Input Info		Input Info	
Price - Each	\$ 49.75	Price - Each*	\$ 4.00
Process Rate (radwaste and disposal cost per lb)	\$ 2.50	Process Rate (radwaste rate or dissolving rate cost per lb)	\$ 2.00
Ave. Number of Uses†	100	Ave. Number of Uses	1
Coverall Weight (lbs)	0.90	Coverall Weight (lbs)	0.53
ProTech Nylon Launderable Coverall		Single-Use PVA or Non-PVA Coverall	
Unit Cost Per Use		Unit Cost Per Use	
Purchase Price	\$ 0.50	Purchase Price	\$ 4.50
Process Price	\$ 2.50	Process Price	\$ 1.06
Radwaste Rate (per lb)	\$ 4.00		
Shipping Labor Rate (per hour)	\$ 25.00		
Total unit cost per use	\$ 3.07	Total unit cost per use	\$ 5.56
Total cost for outage set usage of 30,000	\$ 92,021.00	Total cost for outage set usage of 30,000	\$ 166,920.00
Total cost for outage set usage of 100,000	\$ 306,736.67	Total cost for outage set usage of 100,000	\$ 556,400.00

Visit www.u1st.com/cost_calculator.php to try this new cost calculator for yourself!

New on our Web site, www.u1st.com, is an easy-to-use cost calculator that lets you plug in your protective apparel statistics, including how many garments are required for an outage and the launderable shipment size. The calculator will display an estimate of the comparative costs associated with these garments. We offer the calculator at www.u1st.com/cost_calculator.php: it compares ProTech launderable against disposable and dissolvable garments. "Many managers find out that launderable garments are significantly less expensive than single-use – 50-plus percent less, or half the cost," says Vic Crusselle, UniTech's Director of Safety Services. ■■

UniTech Adds Expertise With Two New Professionals

As part of our continuing expansion, UniTech has recently added two professionals to serve our customers.

Heatherly Dukes recently joined UniTech as Government Contracts Manager, developing markets in DOE sites such as Savannah River, Los Alamos and Idaho National Engineering Labs. Her career in nuclear engineering includes extensive experience in deactivation and decommissioning, surveillance and maintenance, and operations. She worked for 17 years at the Savannah River Site in operations, waste management, ALARA, and more. Dukes holds a BS in nuclear engineering from the University of Florida, as well as an AS in Health Physics from Central Florida Community College. She works out of the UniTech Barnwell office.

Dick Downard has joined UniTech as Technical Accounts Manager in charge of west coast sales. He was formerly regional sales manager at Mount Hood Chemical, where he developed an extensive marketing plan for a large hospital laundry. He also worked as a distribution supervisor at UAP Northwest, focusing on chemical supply distribution and marketing. His career in the chemical supply industry spans over a decade, and he holds a BA in Business Administration and Marketing from Concordia University. He is based in UniTech's Richland, WA office, also coordinating sales for the Ontario, CA and Honolulu, HI locations. ■■

We welcome our newest professionals.

Left:
Heatherly Dukes
Right:
Dick Downard



QA Brief: Monitoring Suppliers To Control Quality and Costs

UniTech Services Group demonstrates its commitment to quality, cost and customer satisfaction by effectively monitoring the performance of our suppliers. We carefully scrutinize suppliers of materials and services, such as protective clothing provided for use at customer sites as well as calibration services for instruments used in laundry processing. This helps to assure that supplier products and services purchased by UniTech are purchased at lower costs and higher quality.

Each supplier must pass an initial quality evaluation before being placed on our Authorized Vendor List (AVL). After being placed on UniTech's AVL, the performance of each supplier is continuously monitored. Problems with supplier performance are documented, and suppliers can be removed from the AVL for poor performance. ■■

“The successful person makes a habit of doing what the failing person doesn't like to do.”

- Thomas Edison

Upcoming Conferences

January 11-13: PWR ALARA, Ft. Lauderdale, FL
January 16-18: Int'l ALARA, EPRI Radiation Protection, Orlando, FL
January 18-20: Region 1,2 & 3 CANDU, Orlando, FL
Feb. 26-Mar. 2: Waste Management '06, Tucson, AZ
May 22-24: FedRad, St. Louis, MO
June 4-7: RAPID Conference, Sand Key, FL
June 11-14: Safety 2006, Seattle, WA

June 21-23: USA Conference, Traverse City, MI

June 26-30: EPRI / LLW Conference, Albuquerque, NM

Recent Contract Highlights

Detroit Edison, Fermi, Contract renewal
Naval Inventory Control, ProTech bagsuits
Portsmouth Naval Shipyard, Long-term contract

CWI, Idaho, Long-term contract
ETS-Lindgren, RF coveralls, accessories
T-Mobile USA, RF supplies
Rio Steel & Tower, RF coveralls, gloves, socks
Bechtel Bettis, ProTech bagsuits purchase
Entergy, New lease-tied-to-use/ProTech
Pearl Harbor Shipyard, Contract renewal

Smart Solutions

(continued from page 2)

How? KoolTech garments are equipped with the UniTech Garment Sentry to ensure that they remain on-site at all times. These new shorts and t-shirts resemble athletic clothing in their style and wearability, and provide a protective layer under clothes. The synthetic fabric is fully wickable, aiding in removing sweat from the body and increasing comfort, and cleans more efficiently than natural fabrics. These garments are more cost-effective than disposables.

Our job is to make your jobs easier

Good product design means understanding how people work in nuclear facilities, and helping save time and money in a variety of ways. Here are two of the newest:

UltraWipe: UltraWipe is a high-performance microfiber wiper that boasts a liquid absorption capacity of nine times its own weight, far greater than standard cotton and Masslin™ wipers. UltraWipe has excellent contaminant release during laundering and is very long-lasting.



Above left: UniGrip gloves in use

Above right: UniGrip Colorsized system



UltraWipe wipers

We offer UltraWipe in a variety of sizes and colors, as well as with accompanying floor-cleaning accessories.

UniGrip Gloves: New industrial-strength dipped-palm protective gloves are available in two varieties: Kevlar-dipped for heavier jobs, and standard knit gloves for everyday protection and cut resistance. Both provide a high level of defense for workers' hands, and allow the full range of motion and

dexterity workers need. The trims of UniGrip gloves are color-coded by size. The gloves are fully launderable to help reduce the supply costs and amount of waste decon your facility faces every month. ■■



We're "glowing" with pride over our new Web site. Visit it to get your FREE glow-in-the-dark T-shirt!

<http://www.u1st.com>
Enter code: GLOW

UniTech U.S. Locations

- * Springfield, MA
- Royersford, PA
- Oak Ridge, TN
- Barnwell, SC
- Macon, GA
- Morris, IL
- Santa Fe, NM
- Ontario, CA
- Honolulu, HI
- Richland, WA

* Also ISO 14001 Certified



Certificate number 968/95



A Subsidiary of UniFirst Corporation



Certificate number 968/95

ISO 9001 Certified
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