

UniTRACK

NUCLEAR SERVICES NEWS

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UniTech Processes Over 5,000,000 ProTech Plus Coveralls



UniTech introduced the new ProTech Plus coverall early in 2007, and followed shortly thereafter with its Hybrid Program to allow customers to combine the advantages of launderable and single-use garments. Since that time, the company has experienced steady growth in its laundering services and is now celebrating the new milestone of having processed five million ProTech Plus coveralls in the U.S. and Canada in just three years. There are a number of factors that help explain the growth in launderable garment use among our customers.

With the introduction of ProTech, UniTech met its customers' key requirements better than ever before. ProTech Plus features improved protection, comfort, reduced heat stress, and durability. Its lower co-efficient of friction makes it easy to put

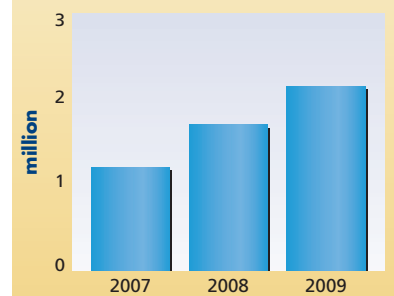
on and take off, and its raglan sleeve design allows for free shoulder movement. Next, it has a water repellent surface. Finally, for management, its low cost-per-use and its long life span are value-added attractions.

Protect workers, reduce contamination events, save money

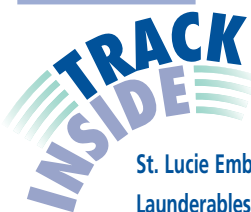
UniTech's Hybrid Program can be the best of all worlds for nuclear protective clothing. With this program, ProTech Plus becomes your workers' everyday protective garment. For certain applications, including high-contamination or wet environments, add a single-use garment over ProTech Plus. (When ProTech Plus is used in a higher contamination environment, wearing the single-use coverall over it keeps contamination out of the system when the garment goes out for laundering.) The result is an optimal combination of worker protection and comfort... while reducing costs and environmental impact.

Contact us to determine whether the Hybrid Program is the way to go for your facility.

ProTech Plus Coveralls Processed U.S. and Canada



ProTech Plus may be yellow, but it's green, environmentally speaking! Plants that use our ProTech One program create NO radioactive waste.



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"If just one nuclear power plant switched from single-use PVA to launderable ProTech coveralls the reduction in overall environmental impact would be a savings of 475 metric tons of carbon per year."



From an independent study, "Life Cycle Inventory Comparison of Radiological Protective Garments" Performed by Exponent, Inc.

Read about the study on page 4 or see the complete study online at: www.unitech.ws/literature/Exponent_LCI_Evaluation_4-16-2010.pdf

St. Lucie Embraces CoolTech Comfort in a Hot Climate



Florida Power and Light's St. Lucie plant has introduced a brand new set of apparel into their radiological program this spring: UniTech's CoolTech Scrubs.

This new version of UniTech's popular scrubs, which features short pants and short sleeve shirts as opposed to the classic long pant/long sleeve version, has been discussed for several outages and now has been implemented at the site. These garments, which wick moisture away from the wearer's skin, have replaced the disposable scrubs that have been worn at St. Lucie for over 10 years. Chris Martin, the Radiation Protection Manager at St. Lucie says, "The workers appreciate the comfort and we reduced outage costs at the same time."

By using the launderable scrubs combined with the UniTech One Program and UniTech's on-site labor, the site will save thousands of dollars. And *that's* cool. ■■

Benchmark Study Launderables vs. One-Time Use Garments



A customer of UniTech conducted a benchmark study of 48 nuclear facilities to compare the advantages and disadvantages of using, as its main clothing program, a launderable garment program through UniTech or a one-time use program. In this study, 24 facilities used primarily launderables and 24 used primarily disposables. The review looked at the costs and radiological performance of the garments used.

An executive summary from the study report

The study showed that "a launderable program is the least cost option while providing the best protection for workers from both a radiological standpoint as well as comfort in heat-related areas."

Findings included the following:

- For sites that utilized launderable protective clothing as their main protective garments (for the study, ProTech Plus was the garment used), the average number of outage PCEs was 38. For facilities using disposables as their main protective garments, the average was 66.
- When the highest and lowest numbers of PCEs from each protective clothing stream were removed, the average became 36 for launderable and 59 for disposable. Those removed highs and lows were as follows: Launderable high was 88, and low was 9. Disposable high was 265, and low was 22.
- The launderable clothing yielded between 23 & 28 fewer PCEs per outage resulting in estimated savings of \$11,500 - \$42,000 (based on a PCE calculated cost between \$500 - \$1500).
- Sites have been successful with the use of ProTech in reducing personnel contaminations and providing a high level of personnel protection. They also saved money.

Following the benchmark study, several of the sites that had higher numbers of PCEs stated they would be returning to a launderable protective clothing program. ■■

ENS Workshop to Focus on PPE Concepts

This fall's ENS Workshop, "Best Practices: Employing PPE to Effectively Reduce



Radwaste", will be held in Munster, Germany on September 22nd and 23rd. Presenters will include customers from Germany, France, Sweden, Canada, U.S., and other countries. The first day of the workshop will be devoted to presentations and discussions. On the second day, attendees will go for an in-depth technical tour of UniTech's Coevorden, Netherlands facility to review procedures, our QA program and various service capabilities (respirator cleaning, airfed suit laundering, etc.).



After each ENS workshop, attendee feedback has indicated that this international meeting facilitates useful sharing of knowledge, processes and experience among participants. We believe that focusing on currently important nuclear-related issues is key to making the sessions worthwhile for busy nuclear facility management.

If you'd like to know more about the event or are interested in participating, please speak with your account representative or contact Gunter Bruckner at gbruckner@unitech.ws. ■■

QA Brief: Improving Wash Formulas

UniTech continues research and development to maximize the effectiveness of its wash formulas to improve decontamination, extend garment life, lower monitoring limits, and reduce radioactive waste generation. In addition we are building wash formulas for new fabrics such as Cool Tech, microfiber towels and mops, and slings and safety harnesses. We are also minimizing the amounts of cleaning agents such as phosphates that could have a negative impact on the environment. UniTech's launderable protective clothing provides maximum protection for workers and also protects the environment, making UniTech a smart and green source for all your protective clothing needs. ■■



Decontamination to Resolve an Unexpected Challenge



During a recent steam generator replacement outage at a customer's plant, one of only three-in-the-world cranes capable of lifting a steam generator was inadvertently contaminated. UniTech responded quickly, designing and implementing a program to clean and free

release the crane back to its original owner. The crane was transported to UniTech's Morris, Illinois decontamination facility. The Morris facility is designed for large projects, and had ample room for the big crane. According to the customer, "Due to the size and complexity of the contaminated equipment, we did not have the facilities or specialty decontamination tools to decontaminate this equipment on site. UniTech's responsiveness and willingness to take on a project of this magnitude on short notice has saved us thousands of dollars in ongoing demurrage, as well as possible purchase and radwaste costs. ■■

UniTech Services Group Donates Equipment to Aiken Technical College Radiation Program

Educating the next generation of nuclear facility engineers and staff is an important endeavor. That's why UniTech Services Group has donated over \$12,000 worth of equipment and supplies to Aiken Technical College's Radiation Protection Technology Program. Aiken Technical College, located in Graniteville, SC, is near UniTech's Barnwell, SC facility. As part of the college's commitment to educating students in engineering principles and specialties, Aiken features a strong program in Radiation Protection Technology.



Left to right: Wade Miller, Aiken Technical College RPT Program Director; Bid Hill, RPT student; Dave Welcher, UniTech Services Group; and Dave Del, RPT instructor, shown with some of the equipment and clothing donated by UniTech.

David Welcher, Technical Accounts Manager at UniTech, delivered the goods to Dr. Tracy Pierner and the Radiation Protection Technology Program staff. The supplies include nuclear protective clothing with a unique color-coded sizing system, helmets and new hire kits. Dr. Pierner said, "This donation will greatly enhance our already-strong RPT program and provide our students the opportunity to work with the finest equipment available." ■■

Words of Wisdom

“ We have to show leadership in protecting our environment so that we have a future for our children and grandchildren. ”

– Arnold Schwarzenegger, Governor of California

Upcoming Conferences

- June 8-11: USA Executive Conference/ Rancho Palos Verdes, CA
- June 22-24: EPRI Radioactive Waste/ Colorado Springs, CO
- June 27-30: RETS-REMP Workshop/San Jose, CA
- June 27-July 2: HPS Meeting/Salt Lake City, UT
- July 19-20: PWR ALARA/Portland, ME
- July 25-28: NEI/HP Meeting/Clearwater, FL
- July 28-30: NISHA, AEP-DC/Cook, MI
- Aug. 8-11: Utility Working Conference/Amelia, FL
- Aug. 29-Sept. 2: DD&R/Idaho Falls, ID

Recent Contract Highlights

- Atomic Energy of Canada: Microfiber Swab Head Covers
- Bechtel Marine Propulsion, Naval Reactor: ProTech Bag Suits
- Omaha Public Power, Ft. Calhoun: Griptech Gloves, MaxAir Parts, Dosimetry Vests
- Techno Science of Japan: RF Coveralls, Gloves, Hoods, and Socks
- CP&L, Brunswick: UniStock Laundry Dispensers
- Detroit Edison, Fermi II: Tarps, Bar Towels
- Knolls Atomic Lab, Schenectady: ProTech Bagsuits and Hoods

- BEA (Idaho National Labs), CFA: ProTech Coveralls and Hoods
- Ameren, Callaway: MaxAir PAPP and accessories
- Westinghouse Electric, NFD: SSD Container, Lab Coats, Coveralls
- Bechtel Marine Propulsion: ProTech Bag Suits, Barrell Lock
- First Energy, Perry: ProTech ONE Program
- PP&L, Susquehanna: Microfiber Towels
- Washington Savannah River: UniTrek Shoe Covers
- Constellation, Nine Mile Point: Elastic Sleeves
- Xcel Energy, Monticello: ProTech Coveralls

New Staff at UniTech

Bert Morales joined UniTech as Radiation Safety Officer based in UniTech's Santa Fe, New Mexico facility. In addition to his Radiation Safety Officer responsibilities, Bert assists the Sales and Marketing team in the southwest region, working with Los Alamos National Labs and other UniTech customers in that region. Prior to his work with UniTech, Bert worked with the Nevada Test Site, Susquehanna Nuclear Power Plant, Idaho National Laboratory, Rocky Flats, and other nuclear facilities. He has a B.S. in Technology, specializing in nuclear technology from Excelsior College. He has an MBA in Engineering and Technology Management from Seattle's City University. Bert has also trained with the Naval Nuclear Power School and has completed a range of other nuclear and safety training programs.



Ray Lancaster joined the UniTech team as Supervisor of Tool and Metal Decontamination in UniTech's Morris, Illinois plant. Ray manages the technicians who perform cleaning and surveys of customer tools and equipment and is responsible for oversight and successful completion of decontamination work performed. Ray oversaw UniTech's efforts to decontaminate the crane (see page 3). Prior to working with UniTech, Ray was Senior Health Physics Technician with Bartlett, Inc. He studied chemical engineering at Elgin Community College in Elgin, IL.



"If just one nuclear power plant..."
(continued from page 1)

From the study:

"Because the manufacturing process predominates in terms of environmental effects, and because manufacturing only occurs once for each garment, reusable garments have less of an overall environmental impact on a per-wear basis than disposable garments. For reusable garments, the environmental effects of manufacturing can be distributed over multiple (approximately 100) wearings. Dissolvable PVA garments must be manufactured once for each wearing, so the entirety of manufacturing-related environmental effects is imposed each time a disposable garment is worn. Based on the assumptions made in this study, **one use of a PVA garment releases almost 18 times more greenhouse gas equivalents than one use of a reusable nylon garment.**

Using 100 percent reusable coveralls instead of 100 percent single-use PVA coveralls would result in a reduction in the overall environmental impact of approximately 28,000 metric tons of greenhouse gas equivalents each year in the U.S. If just one nuclear power plant switched from using single-use PVA to reusable nylon coveralls, the resulting savings would be approximately 475 metric tons per year." ■■



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