



NUCLEAR SERVICES NEWS

UniTech Services Group, Inc. • Volume 18 Issue 1 • Spring 2020

A Message Regarding the COVID-19 Pandemic

To our valued customers.

UniTech Services Group is committed to providing up-to-date information regarding potential product or services impacts as the COVID-19 (Coronavirus) outbreak continues to evolve.

We understand our importance as a critical supplier to the nuclear industry. Rest assured, we are resilient and ready to serve.

We do not foresee significant service disruptions through Q2.

We are actively working with our finished goods and raw materials suppliers to ensure a continuous pipeline across the range. Currently, based on our diverse sourcing composition and the verified inventory buffers held by UniTech and key suppliers of our products, we do not foresee any significant service (product supply) disruptions for the immediate period through the 2nd quarter. For the long run, we continue to explore all options to further insulate our supply chain. We have a well-established global reach.

UniTech launderable protective clothing and laundry services are independent of foreign sourcing.

Regarding the laundry service complement, a key advantage of reusable items is that we are independent of foreign sourcing and thus can provide continuous clean protective wear. Our laundry and respirator processing facilities are located throughout the United States, in Springfield, MA; Royersford, PA; Morris, IL; Barnwell, SC; Oak Ridge, TN; Richland, WA; and Ontario, CA.

Moreover, our facilities are designed to control contamination through time-tested engineered principles. We've implemented additional protective measures and increased housekeeping to reduce the risk of viral spread. Coupled with protective gear already worn by

our employees, we are confident in our state of readiness. UniTech's multiple regional facilities provide redundant support to the nuclear industry depending on shifting regional demands.

We have broad resources ready for rapid deployment.

In addition to the above measures, UniTech has the following broad resources that can be quickly mobilized:

- 50,000 sets of ProTech Coveralls (new and in-stock).
- 300,000 sets of ProTech PPE inventory for spring and fall outage (available through our lease/rental programs).
- Manufacturing based in North America that has not been affected by the pandemic and is capable of producing 500+ coveralls per day.
- Direct distribution of MAXAIR® Systems and 3M® products.
 To date, we have not experienced any supply interruptions of Powered Air Purifying Respirators most commonly used in the Nuclear Industry.
- A large inventory of single-use, disposable PPE at our Distribution Center, available for rapid deployment.

Please reach out to us if we can do more to support your operations. Our thoughts are with you, your staff, and all of your families during this difficult time.

UniTech Saves Canadian Customers \$91M in PPE Costs Over 15-Year Span

This past September, UniTech Director of Canadian Operations Kent Anderson presented at the 4th Canadian Conference on Nuclear Waste Management, Decommissioning and Environmental Restoration. His presentation reviewed 15 years of data collected by UniTech confirming significant radioactive waste volume reduction and cost savings for Canadian customers, spanning 2004-2018.

In that 15-year time period, in which 49 million individual radiation personal protection equipment (RPPE) items were decontaminated, UniTech eliminated \$91.6 million (Canadian dollars) in cost for Canadian nuclear plants. These savings are attributed to replacing single-use RPPE with launderable RPPE, which reduced direct per-unit cost and overall waste volume. Along with that cost reduction, 25,917 m3 (or 6.7 million lbs.) of waste was avoided.

A Green, Clean, Sustainable Decade

We spent the 2010s expanding our services to help customers further reduce waste, reuse equipment, and recycle eligible materials. Each year, sustainability becomes a more urgent priority to UniTech, to our parent company (UniFirst Corporation), and to all of our customers.

In 2019, UniFirst was named the 38th most sustainable company in Barron's annual list of the 100 Most Sustainable Companies in the United States. To determine the rankings, Barron's partnered with Calvert Research and Management to analyze the 1,000 largest publicly held companies by market value with headquarters in the U.S. Each company was assessed against 300 performance indicators in five categories: shareholders, employees, customers, planet, and community.

We look forward to continuing our momentum as a green, clean, sustainable service provider in the new decade with the backing of a parent company who makes people and our planet top priorities.

QA Update

Take it from someone who has floated around the Fermi torus in an inflatable toy boat, measuring dose rate. There is a big job ahead to recoat the torus this spring!

The torus is an essential part of the plant's emergency safety system. Partially filled with water, the torus absorbs energy released by the fuel during an accident — thus cooling the core and minimizing the pressure rise in the drywell. The drywell is an inverted light-bulb-shaped containment.

In the event of an accident, the torus also converts released steam back into water. The almost one million gallons of water in the torus can also be used for various emergency reactor core cooling systems.

When the Fermi torus is recoated this spring, the process will involve removal of the present coating, inspections, repairs, coating, and more inspections.

UniTech is providing the 3M® Versaflo™ TR-600 PAPR Heavy Industry Powered Air Purifying Respirators for use during the project. Their use will increase efficiency and reduce time needed to complete the project.

Hats off to the project team tackling the work!

— Jon Couillard, Quality Manager/Rad Engineer

UniTech Saves Canadian Customers

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Throughout his study, Anderson also covered many other critical factors contributing to cost savings related to materials in nuclear plants.

He made recommendations on crafting a nuclear plant waste reduction strategy that considers as many of the following tactics as possible:

- Avoiding waste through launderable/reusable RPPE.
- Cleaning and returning tools and equipment to contractors to eliminate or reduce back-end project liability using state-of-the-art monitoring equipment.
- Demobilizing construction debris (structural steel, cabling, motors, etc.) on an ongoing basis using off-site decontamination/monitoring services.
- Incorporating off-site waste sorting, looking for opportunities to...
 - > expand the use of reusable items;
 - > recover recyclable materials;
 - > incinerate materials, reducing the long-term waste footprint;
 - > reduce the volume of solid materials;
 - recover and store contaminated materials/tools until reuse is needed;

and

> refurbish contaminated tooling/equipment for continued reuse.

UniTech and 3M[®] Support Fermi 2 Torus Coating Project

Prior to the notable Fermi 2 torus recoating project beginning this spring, UniTech and 3M® trained 150 team members regarding proper dressout, use, maintenance and reassembly of 3M® Versaflo™ TR-600 PAPR Heavy Industry Powered Air Purifying Respirators.

"The training session at Fermi really illustrated what's so special about our partnership with 3M®," said UniTech Technical Account Manager Shannon Fitzgerald. "We brought in a team of 3M® engineers to work directly with the 150 project team members from Fermi, BHI Energy, Day & Zimmermann, and Champion Speciality Services. All questions were answered in real time, by the product experts."

500 Versaflo™ TR-600 PAPR units will be employed throughout torus cleanup over the course of 7,000 "jumps," (or trips back in to continue cleaning the torus) after initial sandblasting leaves the torus tainted by debris.



Fitzgerald explained that the TR-600 model was selected as the ideal choice for worker performance, optimizing their comfort, keeping their core temperatures down, and minimizing fatigue.

Once the project is complete, the TR-600 units will be returned to UniTech. Consumable hoods, breathing tubes, and filters compatible with TR-600 will also be used throughout the project.

Outage Crew Named Peach Bottom's MVPs

UniTech's outage crew members were named "MVPs" of Peach Bottom Atomic Power Station's fall outage.

The crew was nominated for its diligent work to ensure all dressout-required and scrub-required areas of the plant were stocked without delay throughout the fall outage, which took place in October 2019. They worked rain or shine to receive and unload laundry trailers as they arrived at the site with clean PCs and scrubs. The crew also ensured all dirty laundry was efficiently returned to the trailer for shipment to UniTech's laundry facility, without hindering critical path activities at the plant.

Pictured is the crew with Peach Bottom's RP Supervisor, Laverne "Hoss" Hostetter, Jr (back row, middle), with UniTech's crew members: Frank Cooney (back row, left), Michael Bailey (back row, right), Daveen Hostetter (front row, left), Deb Tobin (front row, middle), and Judy Morgan (front row, right).

Thanks for your hard work, team!



Future Nuclear Energy Leaders

Speaking of the future...check out these future industry leaders!

UniTech's glow-in-the-dark t-shirts have become a hit over the years. Such a hit, in fact, that we've received several requests for the design to be printed onto onesies for your youngest loved ones to enjoy.













Words of Wisdom

Nuclear waste is compact —
America's total from 60 years would fit in a
Walmart — and is safely stored in concrete casks and pools, becoming less radioactive over time.

 Drs. Joshua S. Goldstein, Staffan A. Qvist and Steven Pinker, "Nuclear Power Can Save the World," New York Times, April 6, 2019

Upcoming Conferences

*April and May conferences were cancelled due to the COVID-19 pandemic.

- ** All industry events have since been **cancelled** through September, including the below June-August conferences UniTech was tentatively scheduled to attend.
- June 8-9 Decommissioning Forum/Nashville, TN
- June 9 Diablo Canyon Expo/Avila Beach, CA
- June 11 Pavo Verde Expo/Tonopah, AZ
- June 16-18 PWR ALARA/Chattanooga, TN
- June 17-19 EPRILLW/Norfolk, VA
- June 23-26 USA Executive Summit/Huntington Beach, CA
- July 20-23 Innovative Industrial Solutions/Clearwater Beach, FL
- July 26-29 Women in Nuclear/Richmond, VA
- August 9-12 Utility Working Conference/Marco Island, FL
- August 10-12 NEI/HP Meeting/Bonita Springs, FL

Recent Contract Highlights

■ Nuclear Fuel Services: UniTrek[™] Rubber Shoes, Coveralls, Lab Coats

- Westinghouse Electric, Waltz Mill: Waste Processing
- Savannah River Remediation: CoolTech™ Scrubs, UniTrek™ Rubber Shoes
- Fluor Marine: ProTech Plus® Bag Suits & Hoods
- GME Supply: RF Coveralls, Hoods, Gloves, & Socks
- GE Hitachi: CoolTech™ Scrubs, MAXAIR® Systems Hoods
- DTE, Fermi: Torus Recoat Project/3M® PAPRs
- Fluor Portsmouth: PAPR Supplies
- Exelon, Nine Mile: E-Waste Processing
- FMP-Knolls: ProTech Plus® Bag Suits & Hood
- CDI Holtec: Mops, 3M® VersaFlo™ Items, Sheeting, Glove Liners
- Framatome: 3M® VersaFlo™ Hoods
- Perma Fix Northwest: CoolTech[™] Scrubs
- Duke Energy, Catawba: HEPA Service
- Southern Company, Hatch: HEPA Service
- CDI Holtec, Oyster Creek: Respirators, Mops, Laundry Services

- Duke, Shearon Harris: HEPA Service, On-Site Support
- Westinghouse Electric, Nuclear Fuel: Respirator & Laundry Bags, Coveralls, Towels, Shirts
- GE Hitachi: 3M® VersaFlo™ Items, CoolTech™ Scrubs, Rubber Shoes
- Exelon, LaSalle: L1R18 Turbine Project Processing
- Indiana Michigan Power, DC Cook: Waste Processing Services
- Exelon, Fitzpatrick: CoolTech™ Scrubs, Signs, Lab Coats, Smears, DryGuard Plus™
- Energy Northwest: Consumables, Mops, Inneralls, Tacky Mats, Booties, Tarps
- PS&G, Hope Creek: Waste Processing
- Westinghouse Electric, Waltz Mill: Equipment Decontamination For Free Release
- Fermi: MAXAIR® Systems items, Microfiber Towels
- Firewater: ProTech Plus® Coveralls
- Bruce Power: Towels, Undergarments, H-3 Suit Replacement

UniTech Staff Updates



Glenn Roberts Promoted

Glenn Roberts was officially promoted to Manager of Health Physics on January 1. Join us in congratulating him!

Glenn brings 32 total years of radiation safety experience to the role previously held by Mike Fuller, and has been a key member of UniTech's team since 1996 as a health physicist. Glenn is now responsible for all regulatory compliance, corporate oversight, and management of

UniTech's radiation safety and quality control programs.

"I look forward to continuing my support of both UniTech and its customers in my new leadership role in the Health Physics and Engineering Department," said Roberts.

Prior to joining UniTech, he spent five years as Radiation Safety Officer/Health & Safety Manager at Roy F. Weston, Inc. Before that, he spent time as a Health Physicist for the NRC and as a Radiation Control Specialist for the State of Delaware.

In addition to a variety of industry certifications, Glenn holds a Bachelors of Science in Physics and Mathematics (Delaware State University) and a Masters of Science in Health Physics (Georgia Institute of Technology).





Brad Armentrout Promoted

In April 2019, Brad Armentrout was promoted to General Manager of UniTech's Royersford, PA plant. Join us in congratulating Brad on a strong first year in his new role!

Brad has quickly climbed the UniTech ranks since joining the team as a production supervisor in 2011. In August 2017, he was promoted to Assistant Plant Manager of

Operations at Royersford. 18 months later, he ascended to his current role.

"My positions have allowed me to see the plant from different perspectives, from behind-the-scenes production and operations, to frontline customer communication," explained Armentrout. "I'm now at the forefront of communicating with our customers, which is an exciting part of the job that is new to me. More than anything, I'm just excited to keep growing my career with UniTech."

Brad and his team at Royersford oversee the radiological laundry, protective clothing, and just-in-time inventory needs of nuclear facilities in the mid-Atlantic region of the United States. The Royersford location is also one of three UniTech plants with full import and export capabilities to decontaminate materials from Canadian nuclear plants. The plant also contributes to UniTech's tool, metal, and equipment decontamination program.



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UniTech Services Group, Inc. is a subsidiary of UniFirst Corporation.

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Service Center

Oak Ridge, TN

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Plants

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SUSTAINABLE

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