

Customers Weigh In

Launderable vs. Single-Use Garments

Launderable nuclear protective clothing continues to be the standard for most sites. However, the use of disposable clothing, especially for shutdown periods, has begun to attract interest. We offer both types of clothing, and appreciate customer feedback as we seek to provide the very best solutions to customers. Here's input we've received, plus our own observations:

Launderable Advantages

- Best protection
- Minimum penetration
- Durability during work
- Performance in varying environments (wet/dry)
- Most comfort
- Low heat stress
- Easy to work in
- Minimum radwaste generated
- Least cost per use
- Low coefficient of friction
- Easier to put on/take off
- Raglan sleeve design easier shoulder movement for workers



Launderable ProTech or single-use UniWear – make the right choice every time.

- Vent provides bellows cooling effect during work
 - Better fit (elastic waistband) lets workers wear right sizes – not bigger ones
- ### Single-Use Advantages
- Potential reduction in Personnel Contamination Events (but one customer says that single-use rip-outs caused a higher percentage of such events when single-use was employed during a recent shutdown)
 - Control of radioactive material
 - Lighter for reduced heat stress
 - Personal hygiene/new every entry
 - Takes up less space
 - Weighs less/easier to move
 - Reduced radioactive shipments: all clothing on site prior to outage

Achieve Optimal Results!

UniTech suggests the following so you can enjoy the savings and safety of launderable clothing for most applications:

- ✓ Reduction in Personnel Contamination Events can be achieved with launderable clothing and lower limits
- ✓ Control of Radioactive Material: optimal results can be achieved with Garment Sentry RF
- ✓ Lightweight ProTech with vent causes less heat stress than disposable, per EPRI
- ✓ New clothing with every entry assures personal hygiene just as with disposable
- ✓ Wash formulas/temperature sanitize clothing
- ✓ ProTech takes about the same space as disposable
- ✓ ProTech weighs less and is easier to move than conventional cotton or P/C garments
- ✓ To reduce radioactive shipments, have all clothing on site prior to outage



UniTRACK

NUCLEAR SERVICES NEWS

UniTech Services Group • Volume 1 Issue 1 • June 2004

Rocky Flats 2004 Keeping the Pace for Closure

When nuclear professionals identify controlling paths in a site closure process, they don't often think of clothing. However, at Rocky Flats back in 1996, the need to safely launder contaminated and non-contaminated clothing had potential to become a scheduling issue. Rocky Flats did not have the ability to process the contaminated water that would result from on-site laundry activities. Wisely, the staff of Rocky Flats quickly began looking for a solution. UniTech, after intensive work to meet Department of Energy requirements including NQA1 specifications, was selected to provide comprehensive off-site laundry services. Within four weeks after the first phone call, UniTech was processing Rocky Flats' laundry.

When a prospective client asks us if UniTech can handle their needs for volume and scheduling, we can point to our services for Rocky Flats:



Aerial view of Rocky Flats

- We deliver four 53-foot trucks of laundry per week
- We lease over 500,000 protective wear and respiratory equipment items
- We launder over 700,000 items per week
- We travel 1,200 miles each way, 400,000 miles a year, and have never missed a shipment.

continued, page 2



Taking It to the Streets UniTech Mobile Safety Store



By listening to our customers, we gain opportunities to expand our services, and to be as useful a partner as possible.

Such is the story behind the birth of one of UniTech's most exciting new services: the Mobile Safety Store program. UniTech's Mobile Safety Store is a custom-packed trailer delivered

directly to a client site. Its purpose is to meet on-site needs, including last-minute requirements, for a broad range of accessories and consumable items, plus radiological and industrial safety apparel. We've observed over time that many of our nuclear clients have to spend more time than they wish managing

continued, page 2

UniTech U.S. Locations

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



Certificate number 968/95



A Subsidiary of UniFirst Corporation



Certificate number 968/95

ISO 9001 Certified

UniTech
295 Parker Street
P.O. Box 51957
Springfield, MA 01151
Toll free: 800-344-3824
Tel: 413-543-6911
Fax: 413-543-6989
E-mail: info@unitech.ws
www.unitech.ws

Euro Nuclear Services B.V.
Coevorden, The Netherlands

ENS Nuklear Services GmbH
Ellgau, Germany

Euro Nuclear Services Ltd.
Peterborough, United Kingdom



Post-9/11 Best Practices for Transport 3

QA Brief 3

Trade Shows and Contracts 3

Customers Weigh In: Launderable vs. Single-Use Garments 4

Taking It to the Streets

(continued from page 1)

this type of inventory, and more money than necessary maintaining stock on-hand. The Mobile Safety Store program includes three levels of service. The Silver Key Package option includes a trailer delivered to the site with items a client chooses from our comprehensive menu. The Gold Key Package adds final radwaste disposal of single-use items. The Platinum Key Package adds to this an on-site coordinator for stock handling and end-point delivery.

With a Mobile Safety Store on your site, you can purchase or rent the items you need, and pay only for the products you use. The store provides the advantages of just-in-time inventory, with the added benefit that we can restock it at no extra cost during our regular laundry shipments. Your on-site store is designed to provide an appealing “shopping” atmosphere, with translucent ceilings plus well-planned interior lighting with reflective walls.

Modular shelving allows us to arrange displays to meet customer needs.

Items are bar-coded and tracked for billing purposes. The store

provides stairway and platform loading and unloading. Tim McCarthy, Radwaste Manager at Vermont Yankee, was our first Mobile Safety Store customer, and has provided valuable feedback during our first several months of operation. He comments, “For safety and security, the Mobile Safety Store features permanent under-trailer lighting, which is one example of the user-friendly design we need and appreciate. Overall, through the outage, the Mobile Safety Store worked very well for ease of storage, retrievability and inventory control. I think it was a definite plus for the success of our outage.”

For more information about the new Mobile Safety Store program, please talk with your UniTech representative, or call (800) 344-3824. ■■



Mobile Safety Store interior

Rocky Flats 2004

(continued from page 1)

UniTech serves Rocky Flats from its Richland, Washington plant, which offers separate laundry facilities for regulated and non-regulated clothing. By having us launder all its clothing under our radioactive materials license, Rocky Flats assures that, should a piece of regulated clothing ever become mixed with non-regulated clothing, the issue will be appropriately handled by our rad-trained workers. ■■

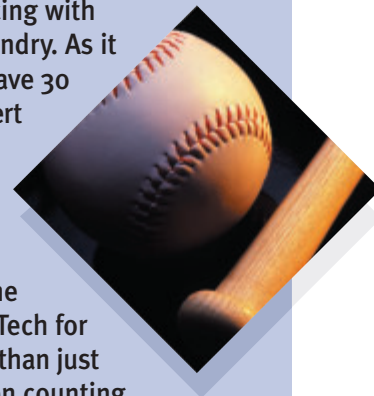
Department of Energy and UniTech Partners in Privatization

UniTech contracts with every major Department of Energy (DOE) nuclear site, largely because we can provide our government customers with quantifiable savings over doing the work on-site, themselves.

A key example of success in privatizing nuclear laundry work is UniTech’s relationship with the DOE’s Hanford Site in Washington. Hanford had considered building its own on-site laundry in the early 1990s, at an estimated cost of \$25 million for the plant alone. It looked to several companies including UniTech to compare the costs of outsourcing with those of building and running its own laundry. As it turned out, working with UniTech would save 30 to 40 percent in labor costs, and would avert the cost of building a laundry entirely.

After an open bid process, Hanford made the decision to work with UniTech. Ten years later, with a first contract complete and a second one beginning, the numbers tell the story. Working with UniTech for the last decade cost the government less than just building its own Hanford laundry (not even counting the cost of staffing it!) would have.

But privatization achieves even more than saving the government and taxpayers money. The Hanford Site was the impetus for UniTech to build its Richland, Washington facility, a laundry that now serves not only Hanford and Rocky Flats, but other customers, too. The Richland plant draws business from Washington, Oregon, Idaho, California, and Colorado, provides 80 or more full-time jobs and supports the tax base. A member of the local Chamber of Commerce, UniTech also sponsors two local youth baseball teams. Now, that’s a real hit. ■■



Security Requirements for Transport of Radioactive Material

After 9/11, nuclear facility security departments nationwide implemented additional controls on incoming shipments of laundry and other radioactive material shipments. The effect was a substantial increase in manpower required to support incoming/outgoing shipments.

Of course, there are distinct differences in the security processes for clearing shipments arriving at a licensee site and for those departing. Inbound shipments present the risk of a terrorist or other illegal attempt to introduce prohibited materials or persons inside a facility’s controlled area. Outbound shipments must be monitored to assure unauthorized radioactive or other controlled materials are not allowed to escape site control.

Our Survey

We conducted a survey involving 65 U.S.-based nuclear facilities. We received data from UniTech’s ten regional plant managers, who have experience with the security processes at each of the sites their facility serves. We also solicited data from site representatives in security departments and from radwaste shipping representatives.

What We Learned

Although there are many factors besides site requirements, including shipment types, volumes, local regulatory matters, and site logistics, there are similarities among the sites that have streamlined the process of clearing incoming shipments. Major factors include:

- Shipment pre-notification times of 24 hours or less
- Approved/pre-screened driver lists
- Standardized data forms co-developed by site security and shipper
- Vendor personnel trained/certified by site to inspect and seal shipments
- Site security personnel observe container/trailer loading at shipper’s location

Licensee-Side Processing Time (driver wait)	Number of Sites in Time Range
<=0.5 Hours	5
0.5 to 1.5 Hours	30
1.6 to 2.5 Hours	10
2.6 to 4.5 Hours	13
>4.5 Hours	7

This article was derived from a paper authored by Bill Williams, NPPD Cooper Nuclear Station and Gregg Johnstone, UniTech Services Group. For a complete copy of the paper, visit www.u1st.com/setnews.htm and select Security Requirements for Receipt/Transport of Radioactive Material. ■■

QA Brief: UniTech Receives Environmental Certification

UniTech Services Group’s Springfield, Massachusetts location received international recognition by earning certification to the ISO 14001 Environmental Management System.

The ISO 14001 Environmental Management System is a voluntary standard that provides a disciplined system to enable an organization to achieve its stated environmental objectives and to satisfy regulatory requirements while attaining its financial and corporate goals.

Many of UniTech’s government-related customers encourage or require vendors to maintain environmental management systems. Some UniTech public utilities have also identified the benefits of environmental management systems and have themselves become ISO 14001 certified. Steve Williams, Plant Manager, was instrumental in achieving this certification. For more information, call him at (413) 543-8008. ■■

Upcoming Conferences

May 30-June 3: Canadian Radiation Protection Association, Taudesach, Canada

June 13-17: Rapid Conference, Sand Key, FL

June 15-20: Nat’l Institute of Safety and Health Assoc., Toronto, Ontario, Canada

June 23-25: Region I & II HP Meeting Galloway, NJ

June 22-25: USA Conference, Asheville, NC

June 20-25: EPRI/LLWC, Salt Lake City, UT

July 18-21: NEI/HPS, Sand Key, FL

August 8-11: ANS Utility Working Conference, Amelia Island, FL

Recent Contract Highlights

BWXT-YIZ Site, Oak Ridge, TN

Westinghouse NFD

Exelon Nuclear (all sites)

MWH Contractors

Los Alamos National Laboratories

Nuclear Management Corp. (multiple sites)

Dominion Nuclear-Millstone Site