WELCOME

FIFTH UniTech R³ Nuclear Workshop
Reduce • Reuse • Recycle

GREEN, CLEAN, SUSTAINABLE

June 5-7, 2019
The Blackstone • Chicago, IL
Safety Message
Know Location of Exits
We now have more desk jobs than we ever did. Continuously sitting in a chair for long periods of time also leads to problems. In such cases, you can put up messages that advise your employees/colleagues about right posture, making sure at the same time that infrastructure provided to them enables them to sit and work 'comfortably'.
Office Safety

- It's unwise to work with watery eyes
- Feel some pain? Listen to your brain
- Don't forget the 20-inch rule

Remember the 20-inch Rule!
Desk jobs have their own problems:

✓ Working on a computer for more than 3 hours at a stretch?
✓ Working on a desk with edges touching your wrists while you type?
✓ Can't move your legs comfortably while working at the desk?
Posture is the #1 reason for lost work time behind the common cold.
OUTLINE

• Workshop Objectives
• Nuclear Industry Changes / Pressures
• UniTech Changes
  – Products/Services/Staffing/Facilities/Acquisitions
• Future Plans/Goals/Objectives
R3 Workshop Objectives

• Share ideas and ways to reduce costs while improving efficiency and maintaining safety
• Make contacts to assist in implementation of these ideas back at your facilities
• Enjoy .... The venue, the social events, the people!

The Blackstone
Thank you to Our Sponsors
Thank you to Our Speakers

• Talks focused on projects, products, and services that can help us reduce the costs of nuclear power
• Waste reduction, recycling, reusable PPE, large components, etc.
• Efficiency improving respiratory protection
• Improved safety products (fall protection)
• New tools for communication, cleaning for reactor cavity, fuel racks, general area contamination
• Decommissionings - improved methods, tools, etc
Thank you to Our Speakers
Market Changes

• Gas Fracking / Natural Gas prices driving down $/MW
• Utility consolidation to Compete
  – 2007 (41 Different Utility Companies)
  – 2019 (6 Companies/Alliances representing 95% industry)
• Fukushima/INPO Regulatory burdens make licensing and operating a nuclear reactor difficult and expensive
• Plant Closing due to Economic Reasons
  – SONGS, Kewaunee, VY, Crystal River, Zion, Maine Yankee
  – 6 more slated for closure: Pilgrim, Oyster Creek, Diablo, Indian Pt., TMI and Palisades
• More to close if costs are not reduced by 30%, Nuclear Promise – Safely reduce costs/procedures to compete.
Cost per MWh of Nuclear Plants

Generation Dispatch Curve

Average Demand

"Out of the money" units

Variable O&M ($ / MWh)

Margin

"In the money" units

$28/MWh

Price Setting Unit

1st Quartile Plant

2nd Quartile Plant

3rd Quartile Plant

4th Quartile Plant

ENERGY
UniTech Service Locations

- 45 + Years Experience
- Serving 70% of the US Market
- 9 Service Centers

New Facility 2018
Joinville, France

Service Centers in Europe
UniFirst

• Recently named in list in top 100 sustainable companies in US.

WILMINGTON, Mass., March 25, 2019 /PRNewswire/ -- UniFirst Corporation (NYSE: UNF), a North American leader in providing customized work uniform programs, corporate attire, and facility service products for business, has been included on Barron’s second 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.
Changes - Cost Saving Initiatives

Outage Labor -

- Reduce costs and improve service to customer
  - Goal improve service efficiency
    - Stocking shelves
    - Shipment preparation
    - Inventory Management
    - Immediate response to customer concerns, etc.
  - Frees up labor for outage critical tasks
  - Now on 15 different sites
Changes - Cost Saving Initiatives

PAPR’s

- Addition of New Products
  - 3M PAPR’s
- Setup customer focus group at 3M. Product launch 2012/2013.
- Now in 70% of the power plants
Improved Security Inspections

UniTech has both X-ray and bomb sniffing equipment for more effective and reduced time inspections of incoming product.

G4 can perform security inspections for a per shipment fee, no guard travel!
Changes - Cost Saving Initiatives
- GripTech Gloves -

• Changeover from costly rubber gloves to knit dipped work gloves
  – Improves worker comfort
  – Improves dexterity
  – Last longer, reducing customer & radwaste costs for replacements
  – Saving 30+% over rubber
  – Implemented at over 20 sites
  – Sample in your welcome bags
Changes - Cost Saving Initiatives
- ONE Program -

• **One Program** to compete against single use
  – Now the Hybrid One program (combining both launderable and single use products)

August 2007
Services Expansion – Acquisitions of BSI & OWL

Purchased Babcock ORSC business June 2016 & Omega Waste Logistics April 2018

Oak Ridge, TN Service Center
Benefits to Customers

Regional facilities can pick up material from customers, prep and ship to Oak Ridge Facility for licensed BSFR disposal at reduced rates.

BSI/OWL contracts can be expanded to include UniTech PPE and labor services.

UniTech contracts can now provide non outage cost effective TMD services utilizing the BSI Oak Ridge BSFR processing license.

Combination of UniTech’s radiological monitoring techniques and expertise and BSI’s BSFR expertise will provide cost effective material processing for customers trying to minimize the costs associated with radiological waste.

UniTech Onsite labor at 20+ plants can easily pick up BSFR waste for segregation and sorting increasing value to

“Innovating to meet your needs”
Additions to the Team

- **JoAnn Dauberger** – Technical Sales and Customer Service for Waste Processing Services
- **Kevin Grazyk** – Oak Ridge Service Center Plant Manager
- **Bryan Guckian** – Mid Atlantic Technical Sales
- **Kevin Bumpus** – Government Sales
- **Brad Armentrout** - New Royersford, PA Plant Mgr

My New Boss effective 1/1/20
Future Plans

• Expand cost savings to our customer for Tool & Metal Decontamination, metal recycle, DAW sort, BSFR disposal
• Continue to expand use of inhouse security inspections
• Replace rubber gloves with reusable dipped and cut resistant work gloves
• Utilize Partners/Key Suppliers to provide additional saving opportunities to our customers
• Build new decontamination facilities in the following locations:
  – Oak Ridge/Knoxville Area – Larger facility combining waste processing/storage/laundry & respirator services
  – French Facility to service EDF for laundry & storage
  – Canadian Facility to perform all UniTech services
QUESTIONS
Thank You!

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