

WELCOME



**GREEN, CLEAN,
SUSTAINABLE**

FIFTH UniTech R³ Nuclear Workshop

Reduce • Reuse • Recycle

June 5-7, 2019

The Blackstone • Chicago, IL





GREEN
CLEAN
SUSTAINABLE

Safety Message

Know Location of Exits



Office Safety

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

Office Safety



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



Studsvik



Rolls-Royce



Burlington



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



FireWater



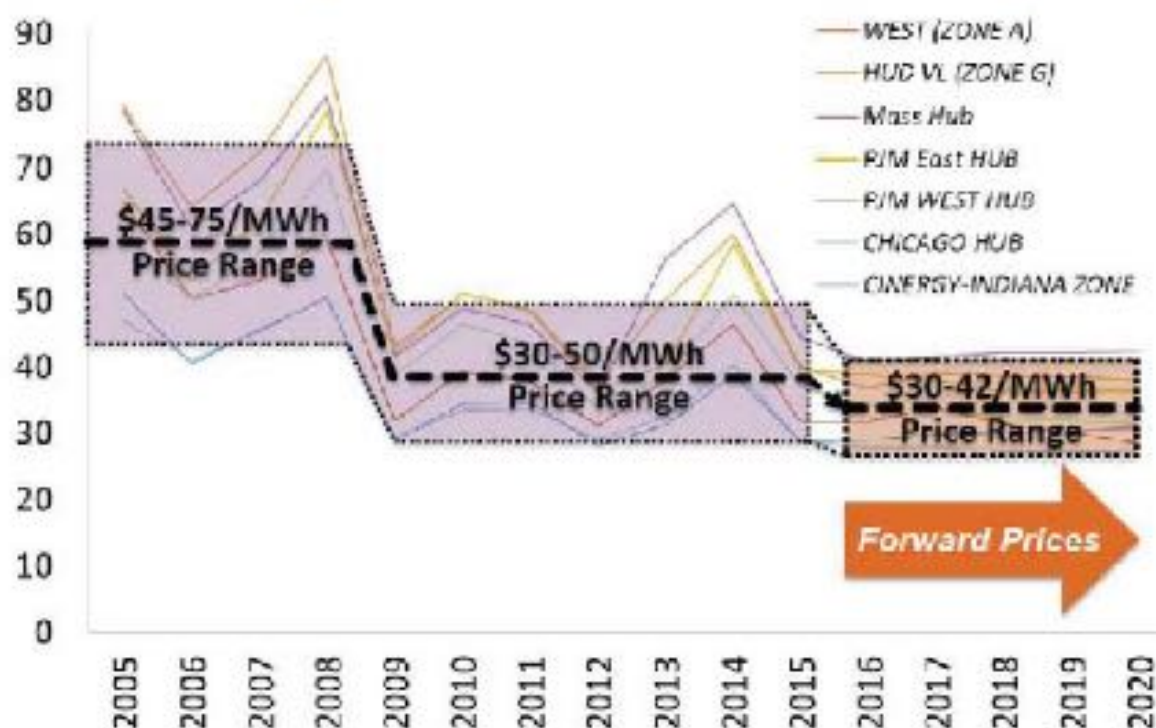
Market Changes

- 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.



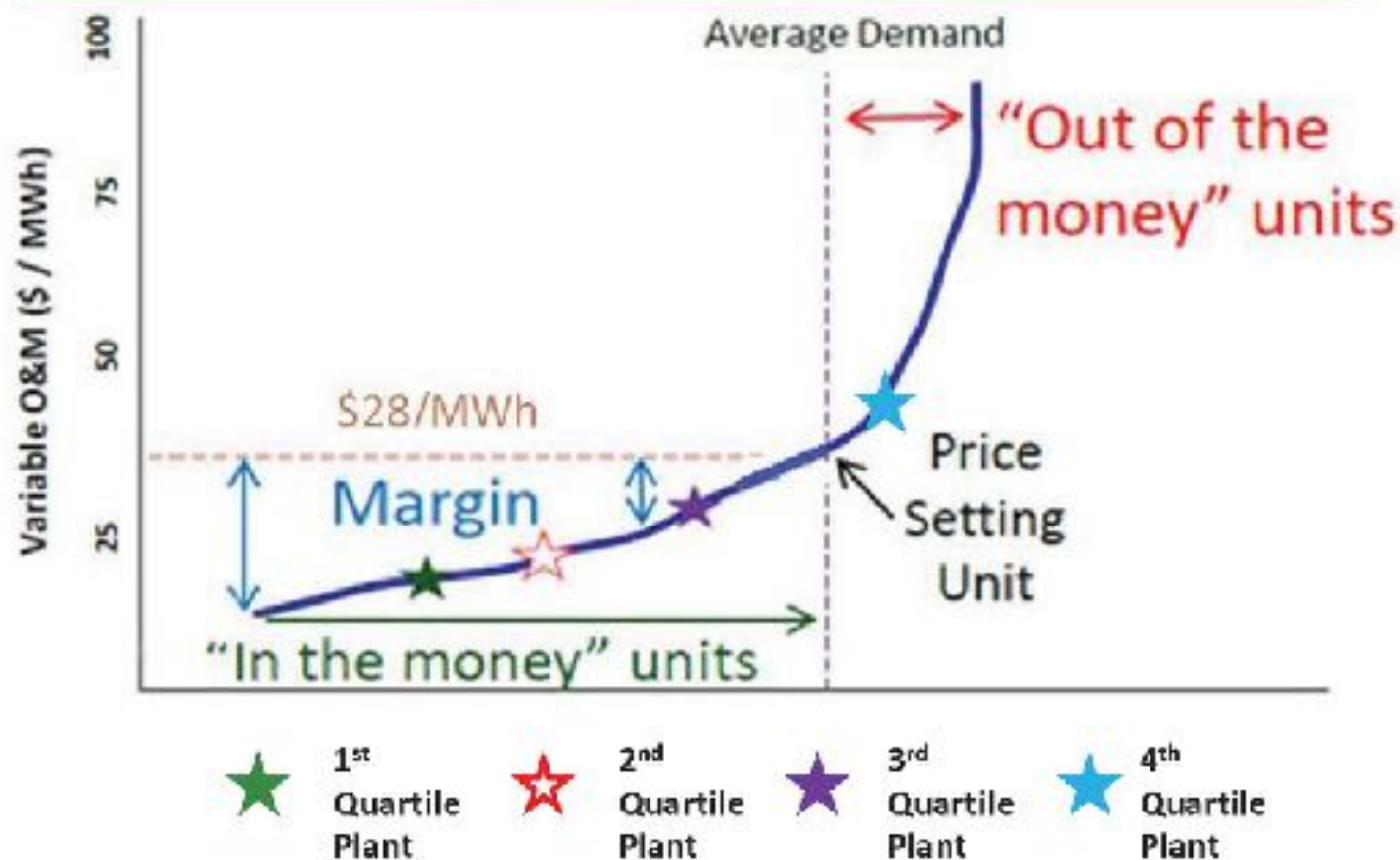
Declining Wholesale Electricity Prices

Declining Wholesale Electricity Prices

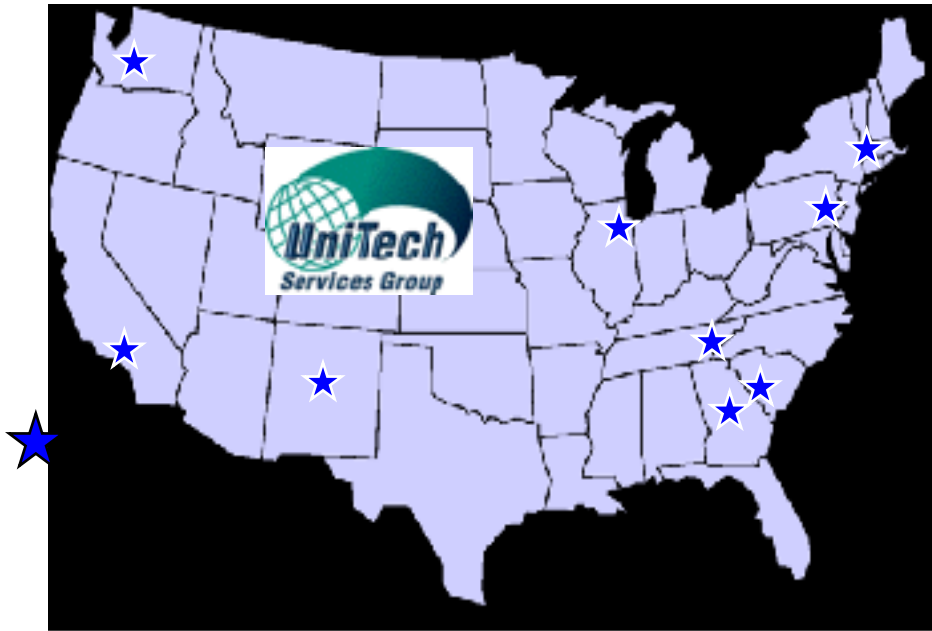


Cost per MWh of Nuclear Plants

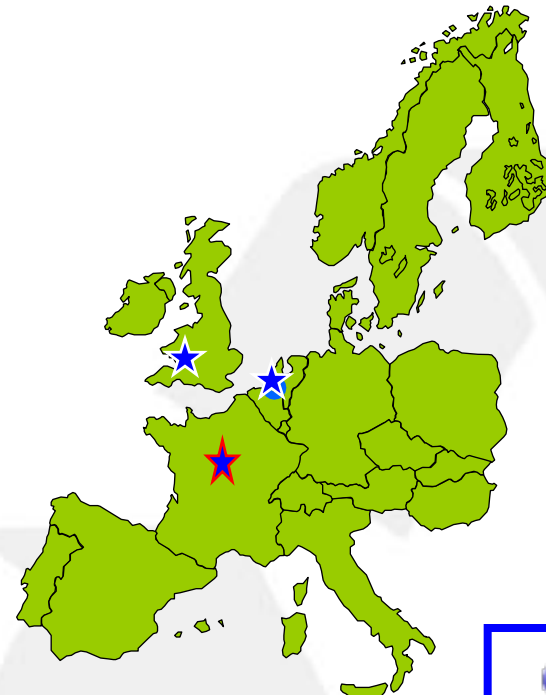
Generation Dispatch Curve



UniTech Service Locations



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



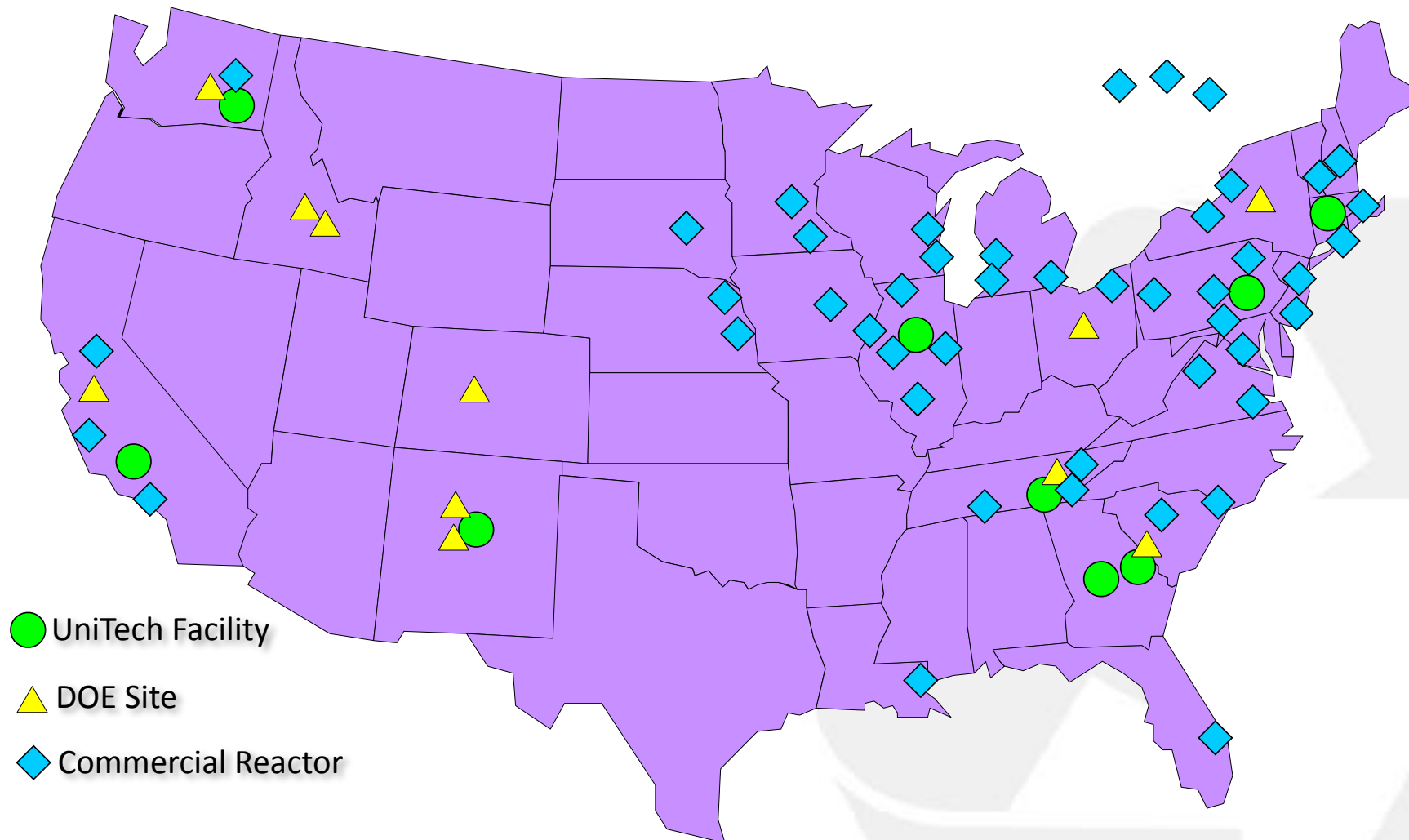
★ New Facility 2018
Joinville, France

ENS

Service Centers in Europe

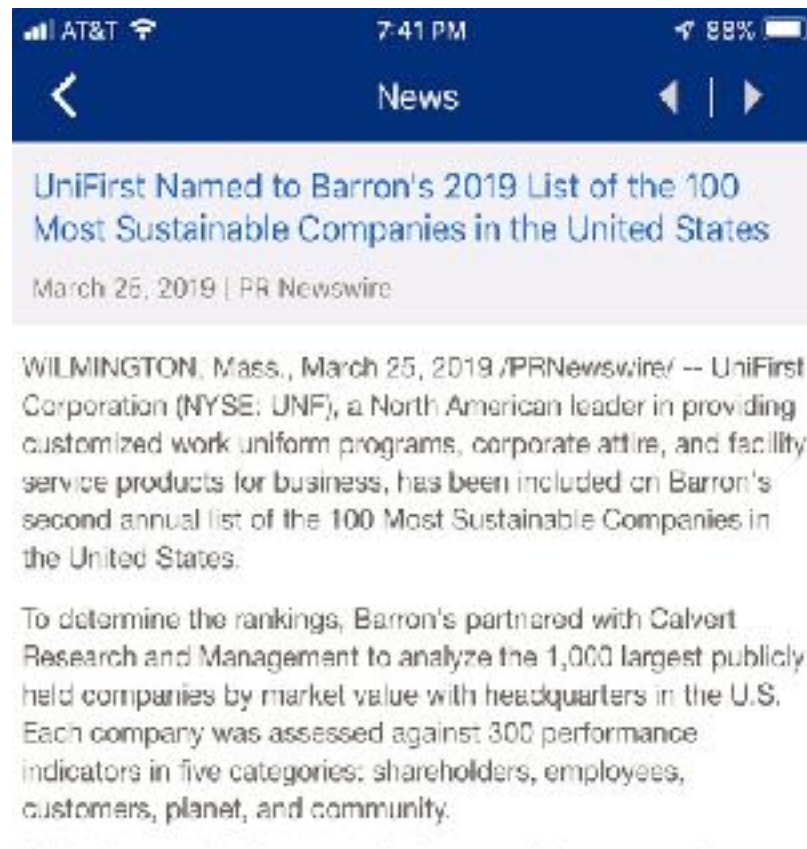


UniTech Service Network



UniFirst

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



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 -



GripTech Gloves
Specially designed for safety and ease of use

We Have a Glove to Fit Your Specific Needs!

Kevlar Cut Resistant High-Viz Nitrile General Use Nitrile 14 inch High-Viz Nitrile

GripTech's GripTech gloves are ready for rough work, easy wearing, and long-lasting convenience. Choose the right glove and make sure it's the right glove for you. Choose the protection you need for the job. Key features of all GripTech gloves include:

- Color-coded bands by size for easy identification
- Ergonomic, contoured design, minimizes hand fatigue for comfortable, safe work
- Gloves are marked and color-coded "left" and "right" to facilitate wearing
- 11 inch extended cuff, if needed, available in improved and standard sizes for most jobs
- Breathable knit back design keeps hands cool
- Water resistant dip coating

Replace your current work gloves with long-lasting GripTech!

All GripTech gloves are available in sizes and colors to match your company's safety colors.

GripTech
Gloves Group

- 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

The advertisement for UniTech Hybrid Protective Wear features a person in a yellow protective suit. The text highlights a "Hybrid" approach that combines single-use and reusable products. It claims to "Reduce Outage Costs by 40%" and "Improve Radiological & Industrial Safety". Two pricing options are shown: "UniTech Hybrid Single-Use Protective Clothing Program" for \$10 & Set, and "DREX Single-Use Disposables" for \$17 & Set. The ad also lists benefits such as "Self-Sealing", "Disposable", "Polyethylene", "Resistant to acids", "Leak-proof", and "Reusable". A section titled "Increase Safety & Save!" mentions that UniTech Hybrid products are "100% recyclable" and "100% biodegradable".

The advertisement titled "The Protective Difference" emphasizes "Protect Your Workers!". It lists two key benefits: "Not only are UniTech Hybrid products more affordable - they're the smarter choice for protecting your employees" and "Fully disposable for those jobs where safety, hazard, loading the heel and need of a worker makes sense". The ad displays four types of protective gear: "UniTech Hybrid Single-Use Disposable Rubber Boots", "UniTech Hybrid Single-Use Disposable Rubber Gloves", "UniTech Hybrid Single-Use Disposable Rubber Socks", and "UniTech Hybrid Single-Use Disposable Rubber Socks". Each item is shown in a separate image with its name and a brief description.



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



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Thank You!

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