

# REMINDER:

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# Innovations to drive supply chain performance





Mark McCray  
*Chief Technology Officer*

***Nuclear Momentum***  
*Advancing Our Clean Energy Future*

ULTRA | Energy

# Ultra Energy is a supplier of nuclear qualified instrumentation and control products and solutions

**ULTRA.**

-  Radiation monitoring
-  Neutron monitoring
-  Reactor protection & control
-  Temperature & pressure

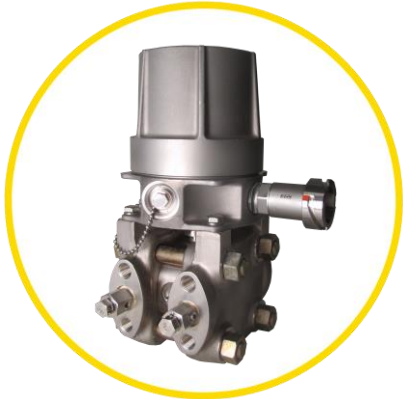
Consultancy

Design

Manufacture

Integration

Support





# Industry challenges

Long life cycle industry

High cost of changes

Long lead times

Component obsolescence

Safety related / qualified components

Compliance / Quality Assurance / Commercial Grade Dedication





# Nuclear industry slow to change while demanding a lot from its supply chain

- Very high-quality products
- Shorter product lead times
- Extended product lifecycles
- Solve obsolescence challenges



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Supply chain can serve customers better by innovating within its own operation

- Safety, quality, shorten lead times and meet on-time-delivery:
  - Accelerate innovation
  - Embed continuous improvement
  - LEAN enterprise
  - Accurate demand forecasting
  - Strong materials management
  - More use of automation



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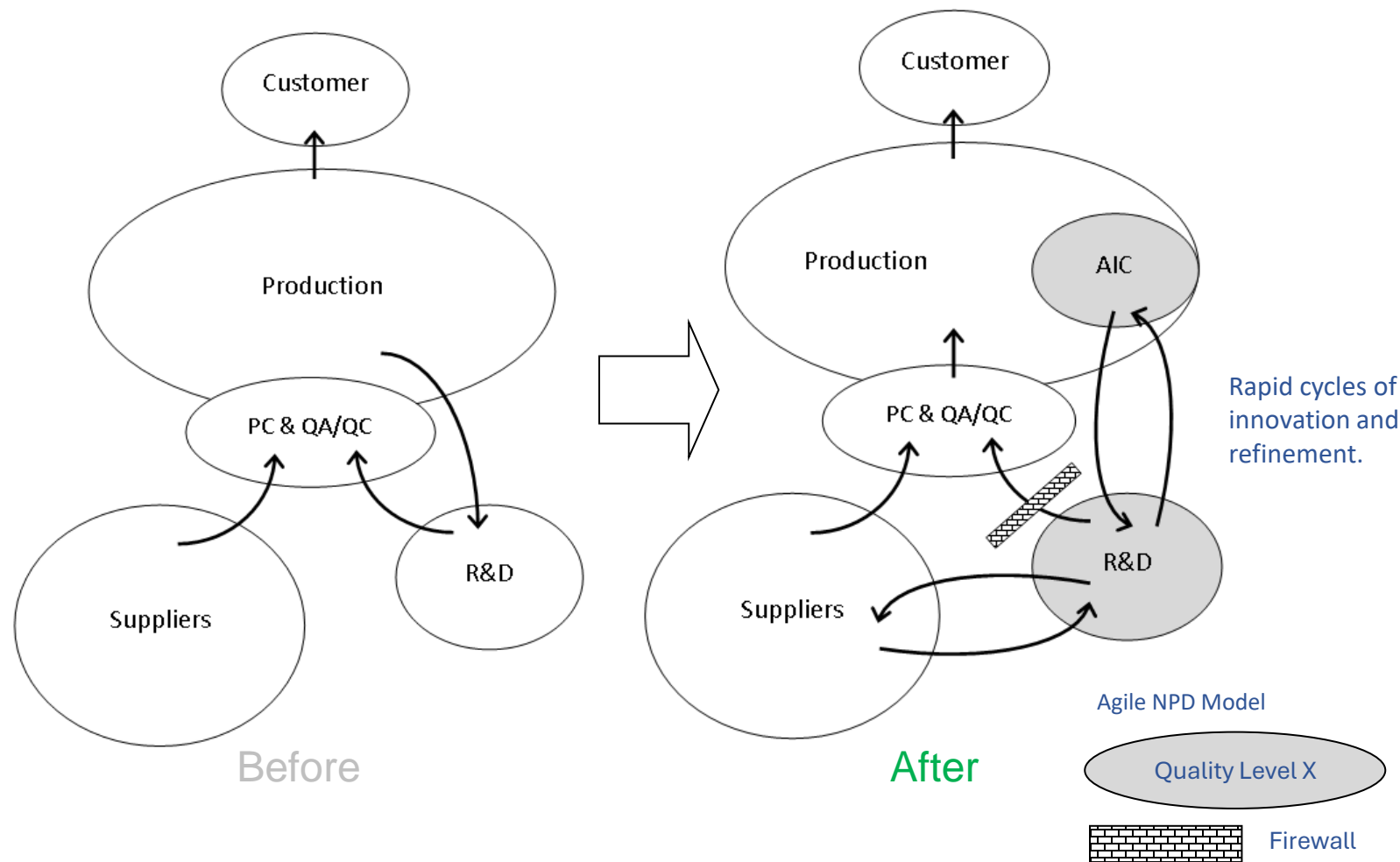
## What are we doing to make it better?

- Investing in the business to prepare for the future
- Accelerating innovation
- Focusing on operational excellence
- Product innovation that's aligned to end-user needs



# Accelerated Innovation Centre (AIC)

- Breaking out of the old ways...
- Accelerating innovation and development
- Reducing time to market resulting in lower costs and higher quality goods and services.





# Accelerated Innovation Centre (AIC)

The AIC is a space for rapid development of new products and manufacturing automation.



# Factory automation

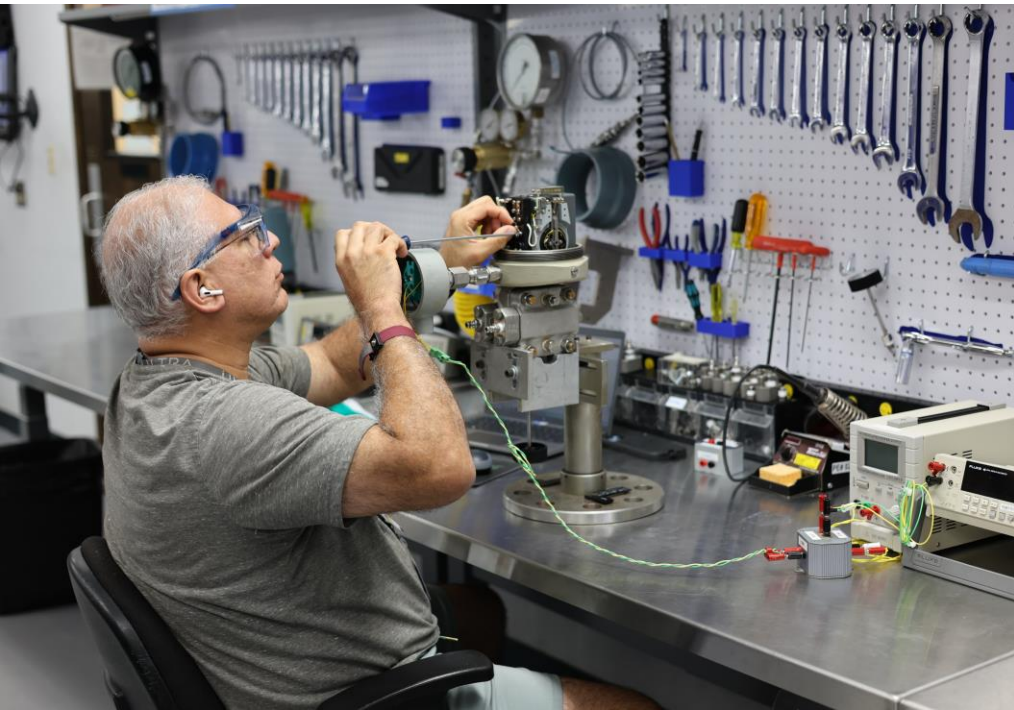
Reducing costs, increasing capacity, faster cycle times, and improved process controls.





# Lean / Continuous Improvement

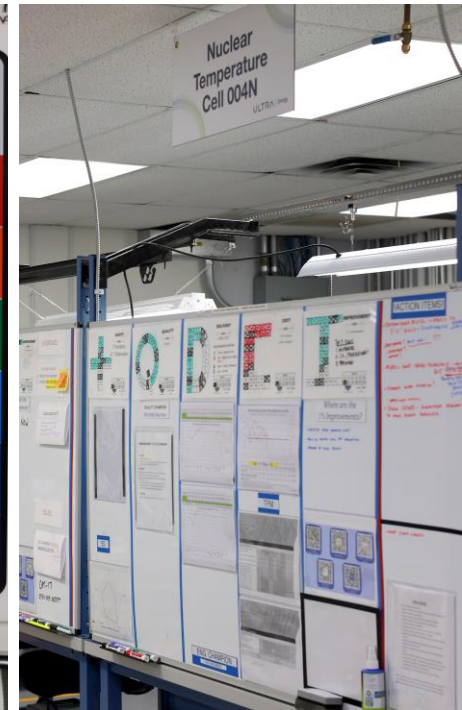
Workplace organization & visual management with a focus on safety, quality, delivery, cost and improvement.



JOB #	Assem #1	QTY	Welds Inspect	Assem #2	Vacuum Over	EPoxy Part Pack	Final Assem	Hold Stock	IR TEST	
844907	15.5	X	X	X	X	X	X	X	7/24	X = Qty of parts
844672	10.7	X	X	X	X	X	X	X		X = Not Started
844904	13.7	X	X	X	X	X	X	X		X = Done - OK
844941	13.0	X	X	X	X	X	X	X	7/24	
844821	13.9	X	X	X	X	X	X	X	7/24	
844815	58.0	X	X	X	X	X	X	X	7/18	
845021	12.1	X	X	X	X	X	X	X	7/25	
844925	15.5	X	X	X	X	X	X	X	7/24	
844728	7.9	X	X	X	X	X	X	X	7/24	
844790	7.8	X	X	X	X	X	X	X	7/24	
844667	7.8	X	X	X	X	X	X	X	7/16	
844578	7.8	X	X	X	X	X	X	X	7/25	
845000	11.4	X	X	X	X	X	X	X	7/25	
845045		X	X	X	X	X	X	X	7/25	
845056	15	X	X	X	X	X	X	X	7/25	
845058	12.3	X	X	X	X	X	X	X	7/25	

**6S LEAN WORKPLACE**

- 1. SORT**  
Keeping only what is necessary and discard everything else - when in doubt, throw it out.
- 2. SET IN ORDER**  
Arranging and labeling only necessary items for easy use and return by anyone.
- 3. SHINE**  
Keeping everything swept and clean for inspection for safety and preventative maintenance of equipment.
- 4. STANDARDIZE**  
The state that exists when the first three pillars or "Ss" are properly maintained.
- 5. SUSTAIN**  
Making a habit of properly maintaining correct procedures.
- 6. SAFETY**  
Identify and eliminate all hazards for a zero accident and injury free workplace.





# Planning and monitoring

- Sales, inventory & operations planning
- Power BI reports
- Demand planning
- On-time delivery



# Product innovation that's aligned to end-user needs

- Products with broader application coverage, better performance, reduced total cost of operation



Next Generation Products



Digital reactor protection system that acts as a pre-verified overlay on FPGAs to reduce the regulatory burden for digital safety systems on end-users.



Filterless continuous air monitor



# How can we make it even better?

- Integrated / informed supply chain
- Closer supply chain relationships
- Collaborate on future demand
- Working together to make it better!





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Questions?



# Please visit our exhibit

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Thank you!

- Mark McCray P.E, Chief Technology Officer
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