

Benefits of Lean Management in Liquid Waste Operations One Company's Journey



Paper#: 15402

SRR began the Lean Journey in the Fall 2013

Lean...

- ...is a leading edge continuous improvement process
- ...empowers the employee to identify and implement improvements rapidly
- ...in today's environment, *maximizes* achievements with what we have
- ...is about "Double the Good and Half the Bad"

It's All in the Count



Participants

SRNS, SRNL, etc.

I see huge potential in streamlining work packages by deleting non-value added steps.

Aaron Weeks, SRR Lead Construction Field Engineer

I think it is great that SRR is willing to let DOE and our regulators participate. It is an awesome forum for everyone to come together and "take their hats off" and step out of their official roles.

Jolene Seitz, DOE-Savannah River



I believe we have an opportunity for some great collaboration, particularly in areas of standardized equipment and techniques.

Robb Burke, Manager, Retrieval and Closure Engineering, WRPS

SRR Lean Value Streams and Sample Benefits

Work Planning Reduction of Work Packages that need to be planned by converting them to Fix It Now (FIN)

50% reduction in rejected Material/Services requests, Supply Chain resulting in 5-10 hours saved per week, per Planne

Waste Retrieval Closing Tank 12 early by using an inventory of collected & Tank Closure data resulting in 3 months of schedule reduction 9,600 person-hours/year eliminated for Design Authority

Engineering engineers to now work on backlogs, system health, process reviews, etc.

Facility

Effluent Efficiencies identified in facility operations in anticipation of

Cross-Cutting procedures and scrubbing backlog of new/revised procedures >2 years in approval cycle

Work Start [Data collection underway] Efficiencies

50% reduction in procedure backlog by binning/prioritizing

Lean by the Numbers



or stops flow

..activities that are not

perspective

Waste in a process slows

"Non Value Added"

needed...from the customer's

8 Forms of Waste

Waiting **O**verproduction Rework

otion

rocessing nventory

ntellect ransportation

39 Lean events 29 Rapid Improvement Events



The "war room" for our

What's in it for Me?

- Removes barriers to allow efficient work execution
- Brings workgroups together to focus on solving a common problem
- Allows the people who do the work V to determine the best solution

Celebrate Successes



Lean Supports a Strong Nuclear Safety Culture



- Improves safety through the elimination of waste and error-likely situations
- Worker engagement emphasizes personal commitment
- Fosters open communication and teamwork
- Field observations result in suggestions for improvements
- Leadership is a core element of Lean and Nuclear Safety Culture
- · Worksite Analysis identifies areas of process and safety improvement
- Focuses on problem solving and organizational learning

Lessons Learned

- Smaller work scope results in rapid achievements and increased savings
- Increased employee participation drives wide-spread knowledge engagement and culture change
- Clearly defined roles and responsibilities promote ownership, participation and closes gaps
- Enhanced key metric displays increase the lean product knowledge
- Establishing key metrics upfront is critical to properly align resources to sustain change and realize event



Savannah River Site

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