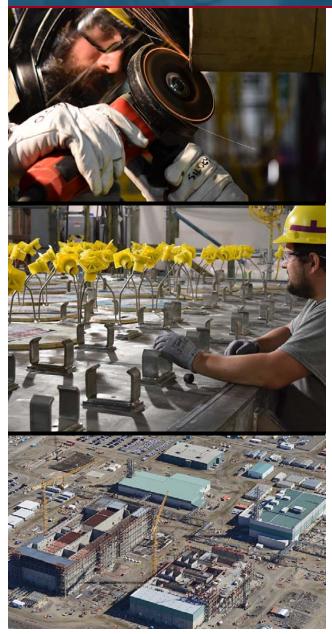


Waste Treatment Plant Project



Nuclear Safety & Quality Culture Monitoring

Heather McMurdo

NSQC Program Manager

May 2017





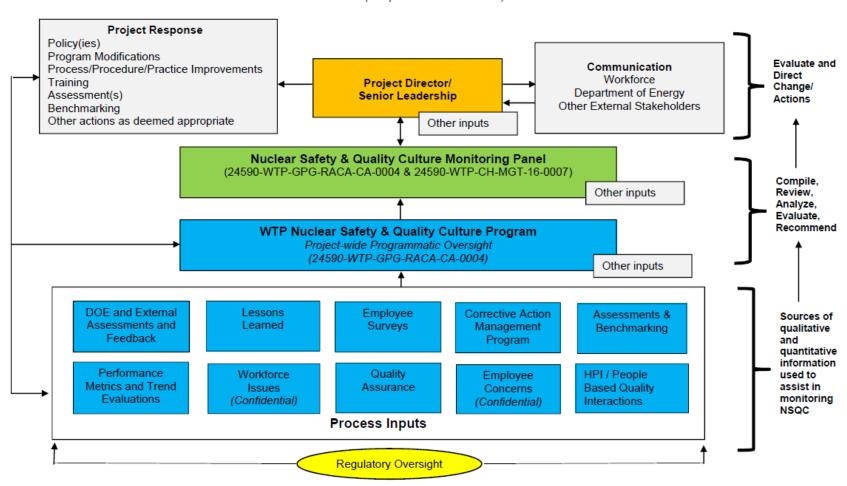


NSQC Monitoring Panel



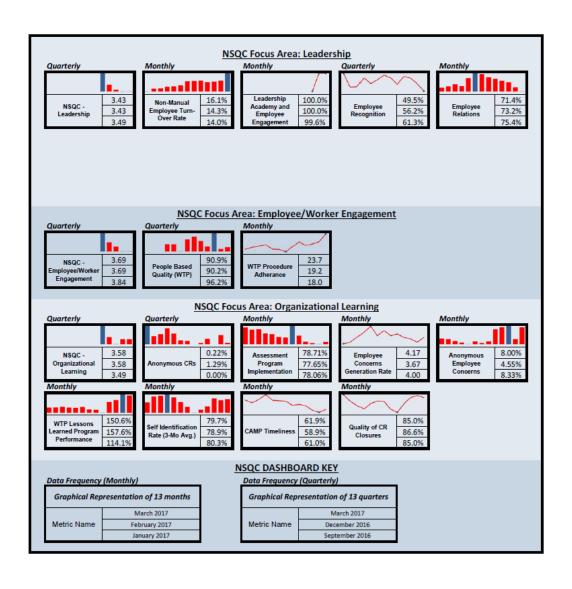
ATTACHMENT 3 MONITORING NUCLEAR SAFETY & QUALITY CULTURE

(adapted from NEI 09-07)



NSQC Metrics





- Grouped into Focus Areas from DOE Guide 450.4-1C, ISMS Guide, Attachment 10
- Reviewed by the NSQC Monitoring Panel
- Actions assigned as determined by NSQC Monitoring Panel's review





NSQC Health Evaluation

Leadership

- 1. Demonstrated safety leadership
- 2. Risk-informed, conservative decision making
- 3. Management engagement and time in the field
- 4. Staff recruitment, selection, retention, and development
- 5. Open communication and fostering an environment free from retribution
- 6. Clear expectations and accountability

Employee/Worker Engagement

- 7. Personal commitment to everyone's safety
- 8. Teamwork and mutual respect
- 9. Participation in work planning and improvement
- 10. Mindful of hazards and controls

Organizational Learning

- 11. Credibility, trust and reporting errors and problems
- 12. Effective resolution of reported problems
- 13. Performance monitoring through multiple means
- 14. Use of industry experience
- 15. Questioning attitude

Color Key

- Dark Blue Excellent
- Light Blue Very Good
- G Green Good
- Y Yellow Needs Improvement
- R Red Does Not Meet Requirement(s)
- U Undefined this Attribute has not yet been evaluated

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Scale: 5 = Excellent, 4 = Very Good, 3 = Good, 2 = Needs Improvement, 1 = Does Not Meet Requirements

*Note: Scale used in 1st Quarter 2016 was: 5 = Excellent, 4 = Good, 3 = Acceptable 2 = Poor and 1 = Very Poor. Scale was adjusted in 2nd Quarter 2016 to align to PEMP rating scale.

Actions being taken to address improvement opportunities



- Survey distributed to managers/supervisors to assess management engagement & time in the field
 - Monitoring Panel reviewed results
 - Sub-committee of the Monitoring Panel established
 - Brainstorming session to identify ways to increase management engagement & time in the field
 - o Came up with over 35 ideas
 - Voted on top 3 ideas
 - Pursuing for implementation
- Condition reports initiated
 - Attribute 6, Clear expectations and accountability
 - Timely completion of deliverables trend
 - Attribute 10, Mindful of hazards and controls
 - Industrial safety trend





- Peggy's Posts
 - Project Director messages
- Project Health Meetings
 - Developmental topics
 - Accountability
 - Safety Conscious Work Environment
 - No Bashing
- Change Management Process
- Annual Safety Conscious Work Environment (SCWE)
 Workshop
- NSQC Communications





QUALITY . SAFETY . ETHICS: WHAT WE BELIEVE - WHAT WE DO

program improvement actions



WTP Mission Statement

Deliver a Waste Treatment Plant that will safely process Hanford Tank Waste in accordance with **DOE** requirements



WTP Leadership Covenants

- Treat colleagues with mutual respect, trust, and dignity and believe they are acting in the best interest of the Project.
- Help each other; ask for and give help and welcome it freely (it is not a sign of weakness). Go out of the way to provide extra support to fellow employees. Share experiences and lessons learned, both successes and failures.
- Communicate early, honestly, and completely with all who have a direct interest in the subject. Listen to others' points of view.
- Earn trust by accepting and honoring agreements, keeping promises, and discussing needed changes before acting.

- (5) Work to understand the WTP Project goals and strategies and proactively support them through discussions, communications, and actions (for example, sharing resources).
- (6) Never undermine colleagues directly or indirectly.
- Work jointly to resolve disagreements in good faith. If necessary, go to a higher authority together, then accept and support the solution.
- (B) Contribute constructively by exercising the highest level of professional and ethical behavior.
- Promote continuous use of the

Key Behaviors and Culture Goals

Do what you commit to do. While in meetings, publicly recognize behaviors that are consistent with the WTP covenants and address behaviors that are not. Contribute your perspective during the meeting to ensure we can continue to learn and

Be accountable

Acknowledge your role. Own and deliver on your responsibilities to progress the project, and to ensure that safety, quality and mission commitments are preserved.

Make defendable decisions

Seek to understand all perspectives. When the authority is yours, make timely decisions by quickly resolving minor issues and elevating major issues with recommendations. Document the basis for your decisions. Provide feedback to communicate your rationale.

Recognize interdependence

Communicate openly. Interface between disciplines, functions, suppliers, and customers to ensure your work aligns with every activity and process it affects.

Seek to understand. Be transparent and open to feedback as a learning opportunity Practice active, respectful, and mutual listening to ensure we can produce high

Apply discipline in executing work

Know your requirements. Interpret them consistently and uniformly. Coach and. where necessary, provide consequences to ensure adherence to our processes and

Have forthright conversations
Express concerns and issues directly. Talk to the person with whom you have the concern. Listen and engage with the intention of understanding and resolving any differences.

WTP Quality Absolutes

Follow Procedures

- Know the procedures for the work being performed
- Verify you are using the correct revision Avoid skipping steps or using attachments instead of the entire

 - · If a procedure cannot be followed as written, STOP and engage

Conduct Job Briefs



- Involve principal participant, stay engaged and avoid a monologue Pre-lob brief's should cover the task purpose and assignments, risks and
- Personnel involved in pre-job briefs should verify they are fit and qualified for their task at hand Post-lob briefs should cover what went well and what didn't to imp

Adhere to Verification/Hold Points



- Avoid thinking that hold points do not apply to you. A hold point is a proceeding to the next step
- Understand what steps require verification before proceeding
 Ensure personnel involved with verification are qualified to do so.

Own Your Signature



- Sign to demonstrate that you are willing to stand behind the work
- Verify that the information you have provided is correct or that the actions specified have been completed before signing A void signing for work you did not perform, verify, manage, or oversee - Self check your work before signing or sending electronically

Stop When Unsure



- Stop when things do not seem right or if you are inexperienced with the
- Ensure systems and processes are in a safe state prior to stopping
- Notify your immediate superviso rafter stopping when unsure Avoid rationalizing away guestions by seeking out factual answers

Accountability Model

Get On the Same Page

Clear Roles and Responsibilities with an Established Single Point of Accountability, Aligned with Decision-Making Authority

Holding Yourself Accountable

Assess Your Own Attitude and Rehaviors



Holding Each Other Accountable

Speak-Up, Have a Forthright Conversation

Talk Directly to the Person Who Can Make it Happen

Resolve at Lowest Level, but if not Resolved..

Escalate Promptly to Seek Resolution



Situational Decision Making

Are YOU the single point of accountability with decision-making authority?

YOU choose HOW to decide

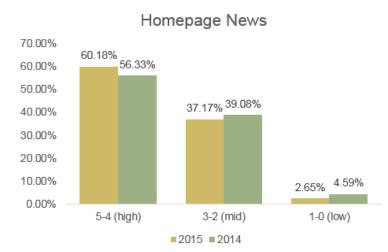


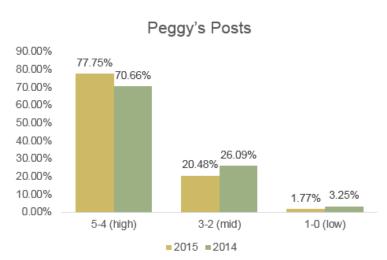
Factor into Your Choice: Level of Urgency Group's Expertise, Experience, and Knowledge

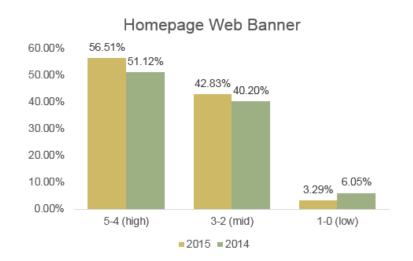


Summary: Communication product effectiveness ratings









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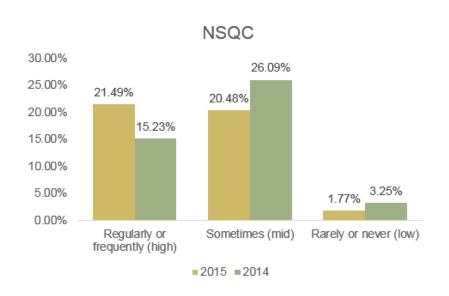
Improving Communications

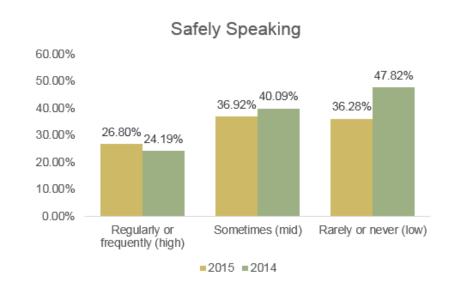
- Communication products received high (5-4) ratings from 56-78% of respondents
- Communication products received low (1-0) ratings from 3-2% of respondents
- Percentage of high (5-4) ratings went up in 4 out of 4 areas between 2014 and 2015
 - High ratings increased the most for Peggy's Posts (+7.09%)
 - High ratings increased the least for all-employee emails (+1.83%)
- Percentage of low (0-1) ratings went down in 3 out of 4 areas between 2014 and 2015
 - Low ratings decreased the most for the homepage web banner (-2.76%)
 - Low ratings increased by 0.45% for all-employee emails



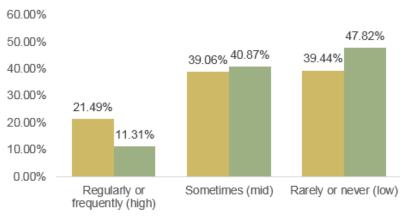
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Summary: Safety and quality topics - ct'd





Bulletproof Quality



2015 **2**014



- Percentage of high (regularly or frequently) ratings went up for 3 out of 3 topics between 2014 and 2015
 - High ratings increased the most for Bulletproof Quality (+10.18%)
 - High ratings increased the least for Safely Speaking (+2.61%)
- Percentage of low (rarely or never) ratings went down in 2 out of 3 areas between 2014 and 2015
 - Low ratings decreased the most for Bulletproof Quality (-2.61%)
 - Low ratings increased by 0.56% for Safely Speaking
- Top-cited reason for not using topics in 2015 is "Others present them in meetings I attend"
 - Top-cited reason in 2014 was "Did not know they exist"
 - Comments cited the survey itself as raising awareness





Video: What is a Safety Conscious Work Environment (SCWE)





