Honeywell Metropolis Works Licensee Performance Review

April 29, 2010

Introduction

Brett Able

Vice-President, Integrated Supply Chain Honeywell Specialty Materials



Honeywell Has a Major Role in the Future of Nuclear

Honeywell

- Senior Management is Committed to Nuclear Safety
 - Working with NRC and DHS to ensure protection of public, facilities, processes, and licensed material.
 - Driving Accountability
 - Integrated Supply Chain Management Oversight
 - Consistent Expectation of Continuous Improvement at Plant Level
- Committed to Continual Improvement at MTW
 - Increasing Capital Investment and Operating Budget
 - Improving Facility Infrastructure and the Integrated Improvement Plan
 - Development of new Integrated Safety Analysis
- Prepared to Meet Future Regulatory Challenges

Continued Safe Operation is Key For MTW

Overview from Honeywell

Dave Cope

Director, Integrated Supply Chain

Fluorine Products, Honeywell Specialty Materials



Honeywell Commitment to the Nuclear Industry

Honeywell

- Recognize Need for a Strong Nuclear Safety Culture
 - Protection of public health and safety, and U.S. energy security
- Engaged in Nuclear Industry

5/12/2010

- Nuclear Energy Institute (NEI)
- Institute of Nuclear Power Operations (INPO)
- Regular meetings with Commissioners and NRC Senior Management
- Actively participating in regulatory process (e.g., comments on proposed rules, Conversion Workshop, etc.)
- Active Role in the Future of Nuclear Energy
 - Sole U.S. supplier of conversion services
 - Key link to U.S. energy security objectives
 - Working with Department of Homeland Security
 - Ensuring fuel supply for power reactors

Honeywell Embracing Role in Nuclear Industry

Demonstrated Commitment to MTW

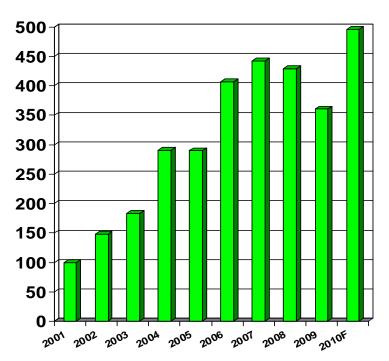
Honeywell

- Improved Waste Management
- Project Scoping Performed to Improve Plant Performance and Reliability
- Assembling a Dedicated Team
 - Experienced Plant Manager and Operations Manager with long-term commitment
 - Continue filling key positions in the areas of Reg. Affairs, Production, Maintenance, Engineering, Health Physics, and HS&E
- Safety/Production
 - Continuing to emphasize worker safety
 - Actions being taken to address trend in minor injuries
 - Implementing Maintenance Excellence and development of the Mechanical Integrity program
 - Facility upgrades and capital improvements

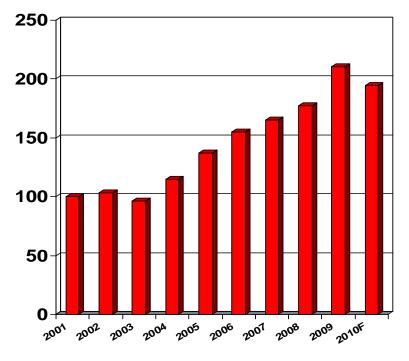
Making Long-Term Investments in MTW

Honeywell Corporate Involvement

- Financial Commitment to Metropolis Works Facility
 - Conversion is a growing strategic segment of business
 - Committing substantial resources



Capital Expenditures
Indexed to 2001



Annual Operating Expenses Indexed to 2001

Licensee Performance Review

Michael Greeno

Regulatory Affairs Manager Metropolis Works Facility Honeywell Specialty Materials



Major Activities in 2008 and 2009

Honeywell

- Supported NRC Inspections
 - **2008 12**
 - **2009 14**
- Developed site Integrated Improvement Plan
- Performed GAP Analysis for key program areas
 - Currently 23 of 213 actions completed
 - Actions tracked in Corrective Action Program
- Initiated development of new Integrated Safety Analysis
 - Currently on schedule at 12% completion
 - Regular reporting and metrics review of project with Sr. Mgmt
- Submittal of Decommissioning Cost Estimate and site characterization
- Conducted Internal Audits
 - 2008 25; 2009 18
- Performed Self-Assessments
 - 2008 31; 2009 47

Many Accomplishments, More to Come

Major Activities in 2008 and 2009

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- Significant Improvements Made to Key Site Procedures:
 - Management of Change
 - Incident Investigation
 - Internal Audits, Self-Assessments, and Inspections
 - Development of Plant Technical Procedures
 - Management of PFAPs
 - Responding to Credible Airborne Threats
 - Hazard Recognition
 - Task Hazard Analysis
 - Job Safety Analysis

Many Accomplishments, More to Come

NRC Performance Review Results

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- "Honeywell continued to conduct its activities safety and securely; protecting public health and the environment."
- NRC Requested Additional Analysis:
 - Evaluate Common Causes For Violations Listed
 - Review Effectiveness of Corrective Actions
 - Understand Reasons for Changes in Dose and Effluents
- Acceptable Performance in Safeguards, Facility Support, and Special Topics Functional Areas
- Improvement Needed in Two Functional Areas:
 - Radiological Controls
 - Safety Operations

Bringing The Team Together To Improve Performance

Conclusions

- Team Determined 14 Causes for the 9 Violations.
- Common Cause Across Both Functional Areas
 - Inadequate Program Detail/Technical Basis (4 of 14)
- Next Leading Causes
 - Inadequate Program Monitoring/Management (2 of 14)
 - Lack of Procedural Detail (2 of 14)
 - Does Not Establish Commonality Among Causes Evaluated
- Cause Was Addressed for the Specific Violations

Analysis Identified Common Cause

Common Cause Analysis Actions

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- Common Cause: Inadequate Program Detail/Technical Basis
- Actions to Address Common Cause
 - Increase Program Ownership (e.g. EP, Fire Protection, Mechanical Integrity)
 - Fill Key Positions Identified in Resource Analysis and GAP Analysis
 - Recruiting/interviews for selection process underway
 - Complete GAP Analysis Actions (23 of 213 completed)
- Address Extent of Cause in Other Functional Areas
 - Perform Self-Assessments to Target Additional Improvements
 Needed Across Other Programs

Continuous Improvement Is The Goal

Effectiveness Review

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Violation	Cause(s)	Effectiveness Determination
PERFORMANCE AREA: SAFETY OPERATIONS		
VIO 2007-007-01	Lack of Procedural Detail	Effective
VIO 2008-001-01	Inadequate Training/Qualification of Personnel	Effective
	Inattention to Detail	
	Inadequate Program Detail/Technical Basis	
VIO 2008-006-01	Inadequate Communication of Management	Effective
	Standards/Expectations	
	Inadequate Program Monitoring/Management	
VIO 2009-005-05	Inadequate Training/Qualification of Personnel	Ineffective
VIO 2009-004-01	Inadequate Hazard Recognition	- Effective
	Lack of Procedural Detail	
PERFORMANCE AREA: RADIOLOGICAL CONTROLS		
VIO 2008-004-01	Inadequate Program Monitoring/Management	Effective
VIO 2008-005-01	Inadequate Program Detail/Technical Basis	Effective
VIO 2009-002-01	Inadequate Program Detail/Technical Basis	Ineffective
VIO 2009-004-02	Inadequate Interfaces Within the Organization	- Ineffective
	Inadequate Program Detail/Technical Basis	

Taking A Closer Look

Effectiveness Review Actions

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- Actions to Address Effectiveness Review of Corrective Actions for Violations:
 - Identify Issue in Corrective Actions Program
 - Perform Additional Analysis to Understand Why Actions Were Ineffective
 - Revise Corrective Actions Program to Require Effectiveness Review for Actions Associated With Root Cause Analysis or Regulatory Violations
 - Assign Follow-up Actions to Owners and Track in the Corrective Actions Program

Enabling Better Corrective Actions

Understanding Increased Collective Occupational Dose and Liquid/Gaseous Effluent Releases

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- Major Operational Challenges Addressed in 2009
 - Green Salt
 - Train reliability
 - Green salt filter decontamination
 - Dust Collectors
 - Ash vacuum cleaner replaced filter media and refurbishment of unit
 - Green salt dust collector replaced filter media
 - Annual Shut Down
 - Installed larger vacuum lines for green salt blender
 - Reworked ore dryer burner system
- Disposal of Waste
 - Approximately 6 million pounds of legacy drums and other radioactive waste was disposed of during cleanup activities
 - Repackaged degraded drums

Making Progress, Improving Reliability

Accepting Challenges: Actions to Improve

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Recognizing and Responding to Conditions that May Degrade Safety

- Proactive use of Corrective Action Program
- Strengthened reviews, safety justification, and documentation in eMOC.
- Disciplined approach in performance of audits and selfassessments.
- Implementing trending and analysis of Corrective Actions Program data
 - Work with Leadership Team to identify necessary actions.
- Effective use of Operating Experience

Focus on Key Aspects of Nuclear Safety Culture

Accepting Challenges: Actions to Improve

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Prevention and Control of Leaks and Spills

- Emphasize Procedure Compliance
 - Safe, Consistent Operations
 - Prompt Reporting and Directed Clean-up Effort
- Improve Equipment Reliability/Upgrade Technology
 - Reduce Need for System Entry
 - Reduce Frequency of Process Upsets
 - Improved Planning and ALARA Focus

Focus on Key Aspects of Nuclear Safety Culture

Accepting Challenges: Actions to Improve

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Responding to Radiological Conditions

- Improved Performance of Dust Collection Systems
 - Significant Reduction in Airborne Events
 - Expected Reduction in Personnel Dose
- Prompt Identification and Reporting
- Aggressive Tracking and Follow-up Monitoring of Airborne Conditions
- Surface and Equipment Contamination Surveys Are More Comprehensive
 - Use of More Sensitive Survey Techniques
 - Use of Administrative Limit to Trigger Decontamination Efforts
 - Performance of Follow-up Surveys
 - Health Physics Tracks to Completion

Focus On Key Aspects of Nuclear Safety Culture

Future of Metropolis

Larry Smith

Plant Manager
Metropolis Works Facility
Honeywell Specialty Materials



Moving Forward: Focus Areas for 2010

Honeywell

- Strengthen Safety Culture Nuclear
 - Nuclear safety is first priority
 - Integrate new managers into nuclear safety culture
 - Strong corporate and plant leadership to reinforce expectations and
 - Drive individual accountability and ownership
- Reduction in Plant Recordable Injury Rate
- Foster Environment of Continuous Improvement
- Continue to Improve Procedure Quality and Adherence; Increase discipline in control of work and conduct of operations
- Rigorously Apply Management of Change Process

Maintain Focus on Safety Culture in 2010

Consolidating Progress & Enhancing Safety in 2010

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- Clear Standards and Expectations
 - Accountability at All Levels
- Identify and Resolve Issues Using Corrective Actions Program
 - Unsafe Conditions
 - Near Misses
 - Procedure Non-Compliance
 - Improvement Opportunities
- Thorough Application of Audits and Self-Assessments
- Use of GAP Analysis and Root Cause Analysis Actions to Strengthen Program
 - Clear Program Ownership
 - Sustainable Actions
- End Result Improved Safe and Reliable Operations

Core Philosophy of Continual Improvement

End of Presentation