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Aligning Behaviors for Incident Free Operations

AFPM Process Safety Group

March 23, 2015

Objectives

- Address the challenge of complexity
- Describe how complexity impacts safety and risk management
- Identify a new approach to aligning behaviors

Complexity is stretching the capabilities of most organizations

PRODUCTS & SERVICES MORE COMPLEX

TECHNOLOGY IS MORE COMPLEX

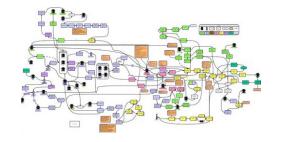




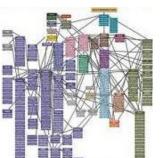


PROCESSES MORE COMPLEX















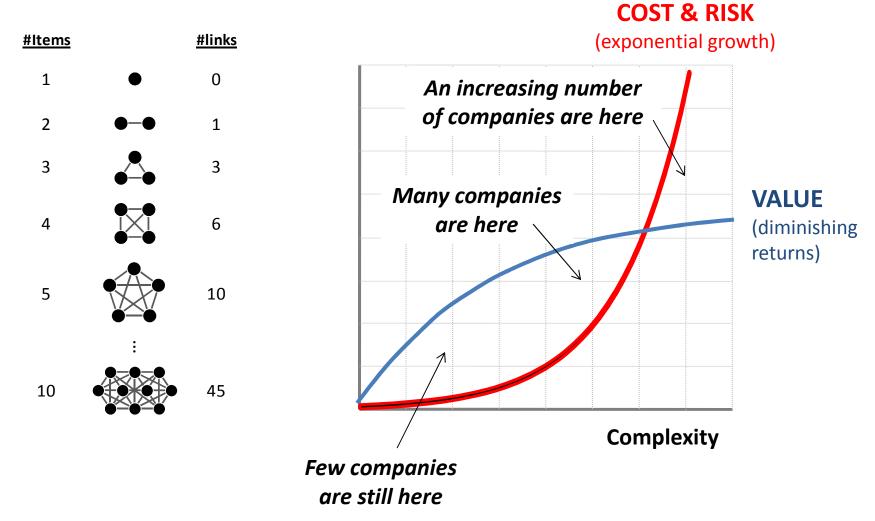




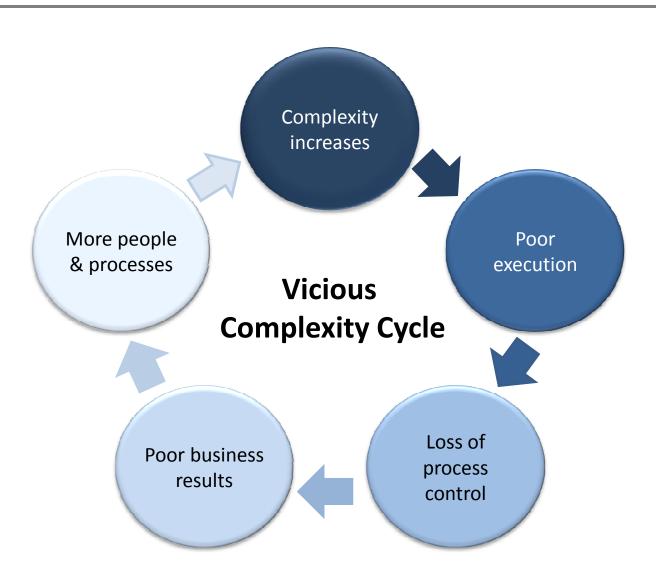


Companies are passing a complexity threshold

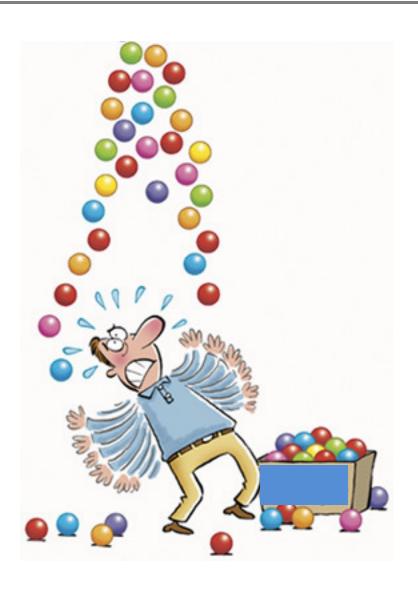
Operational risk grows exponentially with complexity



Response to incidents adds complexity



Complexity is a major contributor to human error



Leaders must dig deeper to systemic cause of incidents

- Too many programs
- Too much change
- Unclear expectations
- Misaligned behaviors
- Overload creates "personal management systems"
- Physical fatigue
- Mental exhaustion

Highly-regarded organizations struggle to manage complexity and risk

Examples:

2015 - BNSF Crude Train Derailment, IL

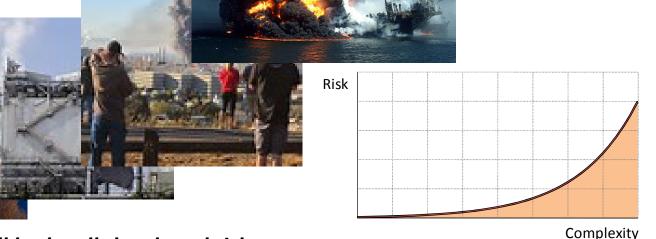
2015 - ExxonMobil Torrance Fire

2012 - Chevron Richmond Fire

2010 - BP Deepwater Horizon oil spill

2010 - Tesoro Anacortes Explosion

2005 – Texas City Explosion



These organizations all had well-developed risk management programs and management systems

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A fresh look at operational discipline and behaviors

Behaviors

Systems

Execution

Aligned behaviors are the foundation for excellence



The right behaviors and culture are essential

How We Do It



What We Do



Operational Excellence

Values

Procedures

Premier Refinery

Behaviors –
"Doing the
Right Thing, the
Right Way,
Every Time"

Standards

Work Processes

Systems

Processes and procedures, without a culture that embraces values and behaviors, will not result in Operational Excellence

The Nuclear Navy's culture and system stand out



President's Commission on Three-Mile Island

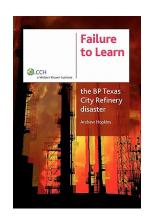
"The nuclear navy emphasizes training and education in a way that would be thoroughly astonishing if you were not already familiar with it. And I urge you, in the strongest possible terms, to take a look at that program."

Dr. John Deutsch, Director of Energy Research & Acting Secretary of Energy Technology, U.S. DOE

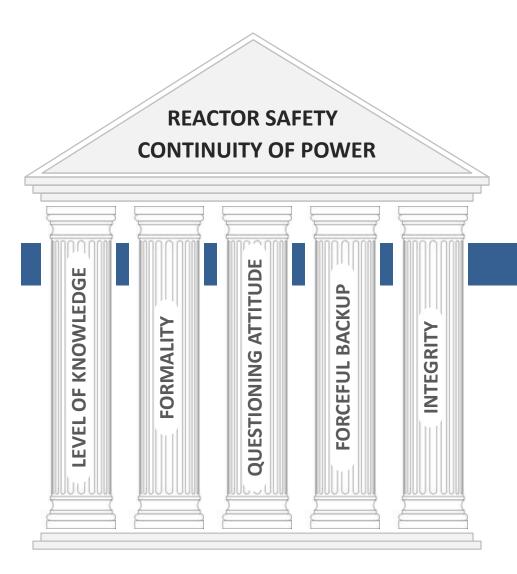
BP Texas City Refinery Disaster

"One of the best examples of the creation of an HRO culture is the US nuclear navy."

—Andrew Hopkins, Failure to Learn



Behaviors must be simple, aligned, alive and assimilated





The "Pillars of the Program"

- Level of Knowledge
- Formality
- Questioning Attitude
- Forceful Watch Team Backup
- Integrity

Four step approach to align behaviors and reduce incidents

Leadership

- Refinery Manager design, ownership and support
- Leadership Team adoption and ownership
- Set expectations for support of and reward for behaviors
- Behaviors become the "way we work" not a program or slogan
- Involve union leadership as an owner

Awareness

- Kick-off sessions
- Roles Sheet development and ownership
- Development of Improvement Action Plans
- Communicate behaviors as an aligned way of thinking and acting NOT a program
- Common critical thinking skills are put in place to enable behavior application (Why Analytics)

Action

- One-on-one meeting with employees to discuss expectations and create Improvement Action Plan
- Coaching to move from awareness to implementation
- Use Five Pillar
 Behaviors and Why
 Analytics for problem solving (Could, Is, Did)

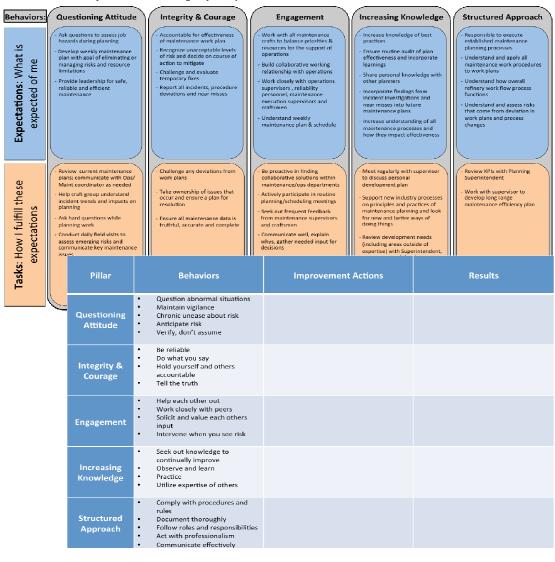
Sustainment

- Leadership involvement
- Hiring for Five Pillar Behaviors
- Onboarding process
- Performance review process
- Talent management
- Integrate into Supervisor training
- Communication of successes

Five Pillar Behaviors: Role Sheets And Improvement Action Plan Worksheet

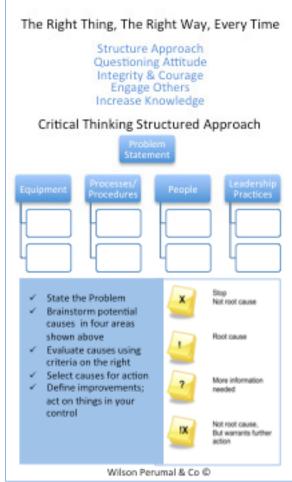
Maintenance Planner

Role - To plan the safe, high quality and efficient execution of maintenance activities



- ✓ A powerful tool to drive change and improvement
 - Questioning Attitude
 - Integrity and Courage
 - Engagement
 - Increasing Knowledge
 - Structured Approach
- ✓ Role Sheets developed for all positions in the company
- ✓ Improvement Action Plan Worksheets define areas for personal improvement
- ✓ The improvement process works best when managers and supervisors interact with individuals, drive and lead the process

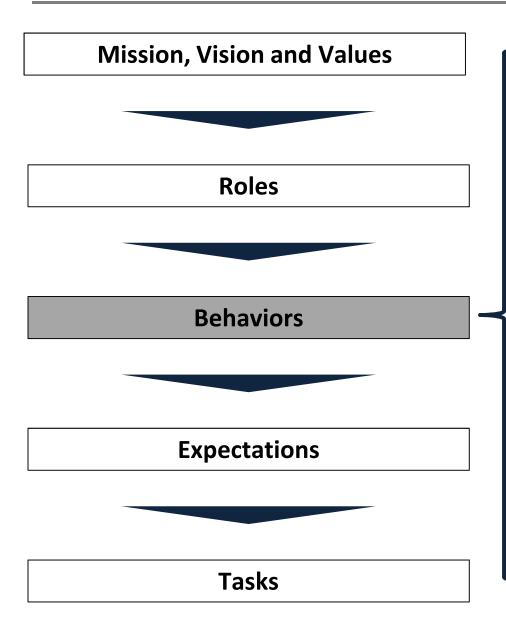
Why Analytics: an effective way to apply the Pillars





- ✓ Develop skills in all segments of the refinery (Operations, Maintenance, Engineering, SHE, Accounting, Executives)
- ✓ Integrates with the Pillars, shows how to apply the Pillars
- ✓ Builds common language of critical thinking skills
- ✓ Simple to apply
- ✓ Our experience is that participant feedback very positive ability to improve problem solving has been demonstrated

Build a people advantage



Simple

Intuitive, fundamental behaviors, can be easily described at any organizational level

Aligned

Behaviors apply to everyone without exception

Alive

Driven by leadership, not a slogan or poster, what we expect from all

Assimilated

Part of goals, performance review, pay, hiring, promotion, development, strategic HR commitment, investment and technology strategies

Summary

- Complexity must be systematically addressed
- Take a fresh look at the alignment of behaviors within your company
- The human impacts of complexity and misaligned behaviors are the next focus area to reduce incidents and improve performance consistency



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