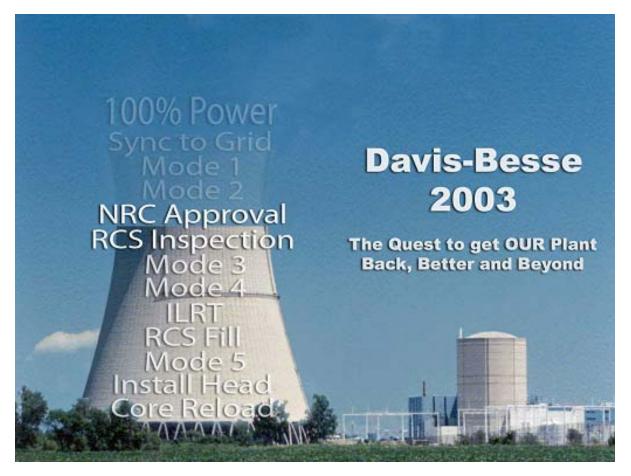


Davis-Besse Nuclear Power Station



Organizational Effectiveness



Opening Comments

Gary Leidich

President and Chief Nuclear Officer - FENOC





Agenda

Opening RemarksGary Leidich
•Safety Culture: Definition/Model/Process/Results/Actions Taken/Effectiveness To DateLew Myers
 Oversight Perspectives on Safety Culture Effectiveness
Fred Von Ahn
•Remaining Organizational ActionsMark Bezilla
 Long-Term Organizational Effectiveness VisionGary Leidich
•Long Term-Improvement PlanRandy Fast
 Barriers Demonstrating FENOC's Strong Safety
Focus Lew Myers
Closing RemarksLew Myers/Gary Leidich





Desired Outcomes

- •Demonstrate that we have built an <u>Organization</u> with a proactive safety culture that is <u>'Built to Last'</u>
- •Provide an understanding of the key elements of our safety culture
 - -Safety Culture Model
 - -Process/Results
 - -Actions taken to date
 - -Effectiveness of actions
 - -Long-term plans





FirstEnergy is Committed to Nuclear Safety

- •Chairman and Chief Executive Officer Commitment to Nuclear Safety
- •FirstEnergy Board of Directors Resolution
- •FENOC Commitment to Safety Culture
 - Corporate and Policy Level Commitments
 - Management Commitments
 - Individual Commitments





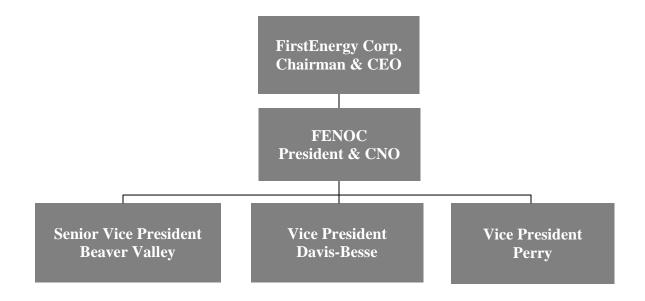
'Built to Last'Commitment

- •FENOC has built an enduring organization rooted in and consistently aligned at all levels to the core values of safe and reliable operation of Davis-Besse
 - Continuous indoctrination of employees in these core values
 - Nurturing and selecting senior management based on a fit with these core values
 - Consistent alignment with these core values in goal-setting,
 problem-solving, and decision-making
 - Preserving these core values while driving continuous improvement
 - A strong safety focus resolve





Previous Organization





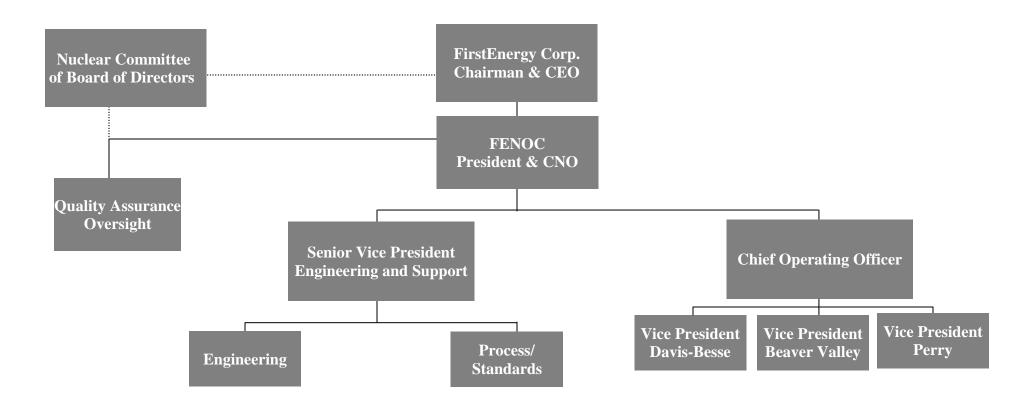
Previous Organization

Potential Pitfalls

- Allowed isolationism and individual plant organizations
- Differences in management processes went unchecked
- Corrective Action Program weaknesses
- Differences in cultures
- Resistance to Industry Standards
- Allowed oversight to become part of the problem



Present Organization





Present Organization

Advantages

- Common Processes/ Industry Best Practices
- Strong Corporate Governance
- Independent Quality Oversight
- Chief Operating Officer is responsible for consistent implementation
- Senior Vice President Engineering is responsible for development



Present Organization

•Organization is in place to ensure strong safety focus and facilitate top fleet performance





Safety Culture

- **Upper Definition Upper Definition Upper Definition**
- **↓** Model
- **↓** Process
- **↓** Results
- **V** Actions Taken to Date
- **↓** Effectiveness To Date

Lew Myers Chief Operating Officer - FENOC



Definitions

Safety Culture

That assembly of characteristics and attitudes in organizations and individuals which establishes an overriding priority towards nuclear safety activities and ensures that issues receive the attention warranted by their significance

Safety Conscious Work Environment

An environment in which personnel are encouraged to identify problems, are confident that problems will be effectively evaluated and corrected, and are protected from any form of retaliation

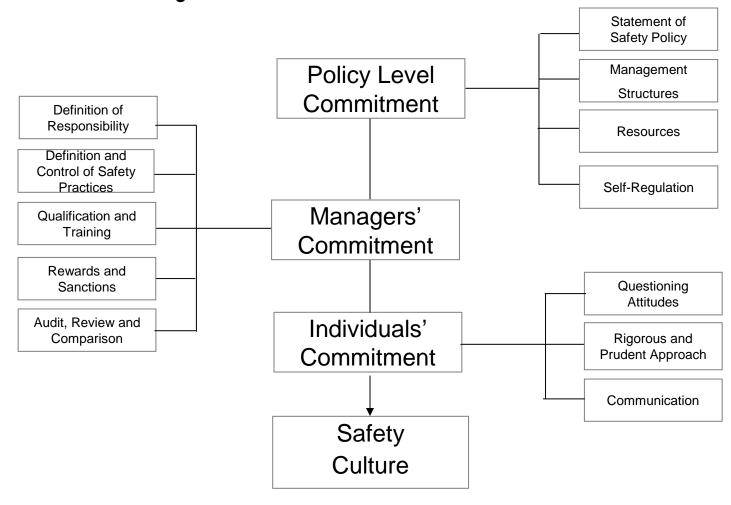


Safety Culture Model

- Original Safety Culture Model Sources
 - -International Atomic Energy Agency, INSAG-4, "Safety Culture"
 - -INSAG-13, "Management of Operational Safety in Nuclear Power Plants"
 - -Dr. S.B. Haber Performance, Safety, and Health Associates



Safety Culture - IAEA Model



Source: International Atomic Energy Agency - INSAG-4, Safety Culture



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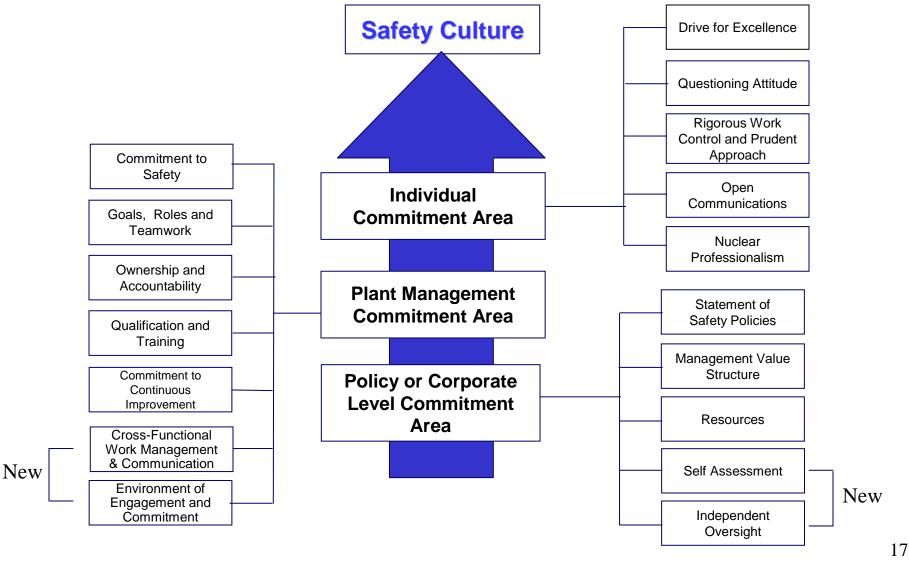


FirstEnergy Safety Culture - Model Development

	Organizational Behaviors Impacting Safety Culture																										
	Attn to Safety	Coor of Work	Decision Mkg	External Comm	Formalization	Goal Set/Prior	Interdept Comm	Intradept Comm	Org'l Culture	Org'l Learning	Org'l Knowl.	Perf. Eval.	Perf. Quality	Person'l Select	Prob. Identif.	Res. Allocatn	Roles & Resp.	Time Urgency	Training	Constr.Values	Drive-Perfectn	Org'l Commit.	Job Satisfactn	Min. Avoidnc	OpnEffecCom	Questg Attit.	Wrk Grp Cohes
CRITERIA																											
Policy/Corp Commitment Area 1.a. Policies/Core Value 1.b. Mgt values in Bus Plan 1.c. Resources are available 1.d. Self-Assessment Tool 1.e. Indep. Oversight Tool	X X				X X	X						X X	X			X											
Plant Mgt Commitment Area 2.a. Visible Commit to Safety 2.b. Goals/Roles/Intrad.Tmwk 2.c. Ownership/Accountability 2.d. Trg. & Quals valued 2.e. Commitment to Cont. Impr. 2.f Cross-func.work mgt/comm 2.g. Envir. of Engagemt/Commit	X X X	x x	x x		X X X	X	X	X	x x x	X X X		X X X X X	X X X		X	x x x	X X	X X X	X X X	X		X	X	x x	X X	X	Х
Individual Commitment Area 3.a. Drive for Excellence 3.b. Questioning Attitude 3.c. Rigorous WC/prudent approach 3.d. Open Comm-voice concerns 3.e. Nuclear Professionalism	X X X X	X			X X X		X		X X	X X		x x	X X X X		X X		X	x x x			x x x	X X		X X X	X X	X X X	



Safety Culture - FENOC Model



FENOC



Process

- •Improvement of Safety Culture
 - -Communicated the importance of Nuclear Safety to employees
 - -Created Safety Culture and Safety Conscious Work Environment Models based on industry experience to date and information from the International Atomic Energy Agency
 - -Performance, Safety, and Health Associates, Inc. performed independent safety culture audit in February, 2003
 - -Conducted self-assessments and internal surveys
 - -Developed Business Practices on safety culture

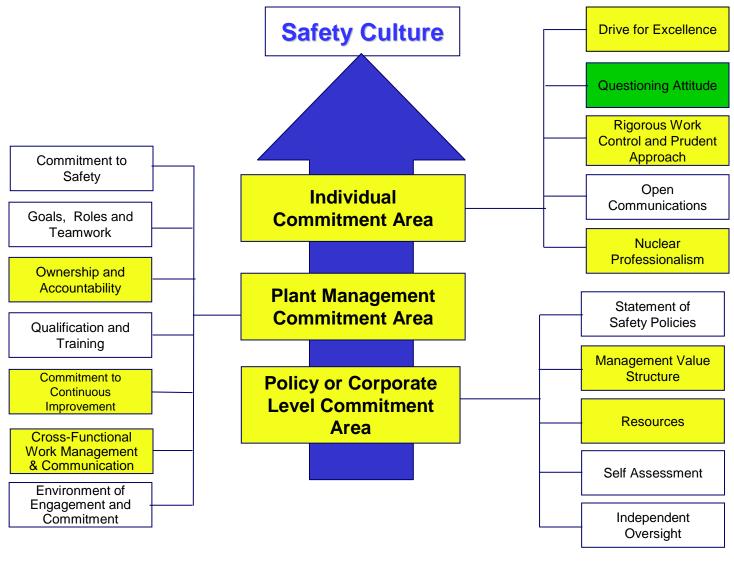


Results

- •Performance, Safety, and Health Associates, Inc. Safety Culture Assessment
 - -Weaknesses in management meetings, employee alignment, communication of safety goals, accountability and ownership for safety, and shift turnover focus
- •Mode 5 Safety Culture Assessment
 - Weaknesses in Individual Commitment Area, Plant Management Commitment Area, and Policy or Corporate Level Commitment Area
- •Mode 4/3 Safety Culture Assessment
 - -Overall improvements in all three commitment areas

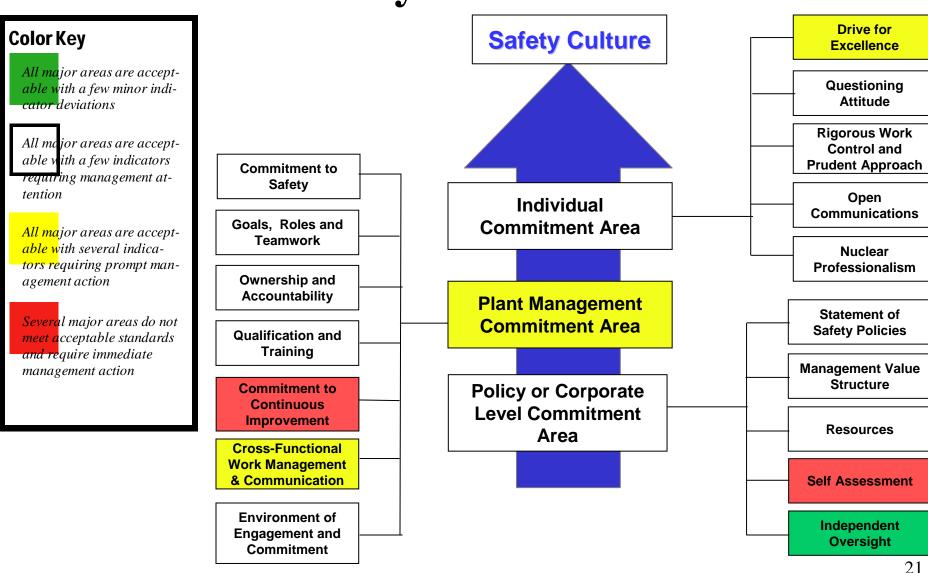


Mode 5 Safety Culture Assessment





Mode 4/3 Safety Culture Assessment







Actions Taken to Date Policy or Corporate Level Commitment

- •Safety communication from FirstEnergy Board of Directors
- Board of Directors site visits
- Nuclear Committee of Board of Directors on-site meetings
- •FirstEnergy Chief Executive Officer All-Hands meetings
- •FirstEnergy Chief Executive Officer Shift Manager meetings
- •FENOC Policy on Safety Culture
 - -Letter issued to all employees, and then made into a policy
- New Chairman of Nuclear Committee of Board





Actions Taken to Date Policy or Corporate Level Commitment

- •New FENOC Executive Team
 - -President
 - -Chief Operating Officer
 - -Senior Vice President FENOC (Engineering)
 - -Vice President Oversight
 - -Reports directly to Board of Directors
- Company Nuclear Review Board Changes
- •New Vision, Strategic Objectives, and Metrics
- Nuclear Fleet sharing of resources and experience
- •FirstEnergy Talent Management Program
 - -Ensures talent for the future



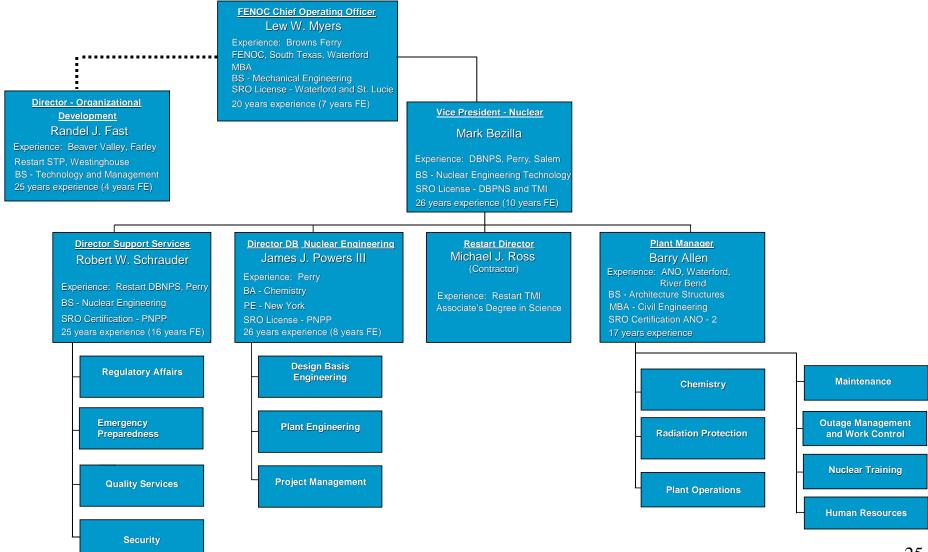


- Proven Davis-Besse/FENOC Leadership Team
 - -Addition of new Director of Organizational Development
- •New Davis-Besse Management Team
- •Evaluated managers for proper competencies
 - -External RHR assessment





DAVIS-BESSE SITE ORGANIZATION



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DAVIS-BESSE SITE ORGANIZATION

DB Nuclear Plant Support Services Restart Engineering Manager Regulatory Affairs Manager Nuclear Training **Manager Chemistry** Manager Design Basis Engineering Kevin L. Ostrowski John E. Reddington Patrick J. McCloskey BS - Engineering MS - Nuclear Engineering MS - Environmental Management BS - Physics BS - Civil Engineering SRO Certification - DBNPS BS - Civil Engineering SRO License (Beaver Valley) SRO - DBNPS Class III, State of Ohio, Operator SRO License - PNPP 23 years experience (FE) PE - States of Illinois and Ohio 18 years experience (FE) PE - State of Ohio 24 years experience (17 years FE) 19 years experience (FE) Manager Radiation Protection Richard P. Farrell (A) Manager Quality Services Manager Human Resources Manager Plant Engineering Linda M. Dohrmann Deanna L. Haskins Brian Boles 20 years experience BA - Liberal Arts BA - Human Resource Management/ BS - Mechanical Engineering 27 years experience (FE) Organization Development SRO License - PNPP AA - Business Management 17 years experience (FE) 18 years experience (FE) Manager Plant Operations Manager Security Michael J. Roder Manager Project Management Charles A. Hawley, Jr BS - Mechanical Engineering BS - Electrical Engineering SRO License - DBNPS SRO License - DBNPS BS - Mechanical Engineering 17 years experience (FE) 17 years experience (FE) SRO License - DBNPS 30 years experience (17 years FE) **Director Maintenance** Michael J. Stevens (I) Experience: Return to Service Quad Cities SRO Certification 19 years experience (4 years FE) Manager Outage Management and Work Control AS - Nuclear Technologist SRO Certification - PNPP 23 years experience (FE)



- •RHR review expanded population to include all management and supervisors
- Anchored behavioral expectations into training and appraisal process
 - -Development of attributes (competencies) for expected behaviors
 - -Nuclear Safety
 - -Nuclear Professionalism
 - -Training of all supervisors and above on new Nuclear Safety competencies
 - -Tied competencies to employee appraisals





- •Anchored oversight into continuing processes
 - -Corrective Action Review Board (CARB)
 - -Root Cause, Rigor, Quality and Approval
 - -Engineering Assessment Board (EAB)
 - -Technical Product Quality Review
 - -Management Review Board (MRB)
 - -Criteria for management review strengthened





- Anchored safety work practices into current processes
 - -Risk Management Process for ensuring proper management oversight for activities
 - -Problem-Solving and Decision-Making Process
 - -Program Review Process
 - -Latent Issue Review Process
 - -System Health Readiness Review
 - -Management Observation Program
 - -Operability Evaluation Process





Actions Taken to Date Individual Level Commitment

- •Case study training focus on Nuclear Safety
- •Meetings with employees to communicate Safety Focus
 - -Town Hall
 - -4-Cs (Communication, Changes, Concerns, and Compliments)
 - -All-Hands
 - -Site On-line Articles
 - -FENOC On-Line Articles
- Management Observation Program / employee interface opportunities



Actions Taken to Date Individual Level Commitment

- •Supervisor and above leadership training
- Organizational standards and expectations
- •Safety Conscious Work Environment Training
- •Problem-solving / Decision-making Nuclear Operating Procedure rollout and communication
- •Ad-hoc surveys in department meetings
- •New Employee Orientation Manual



Actions Taken to Date Safety Conscious Work Environment

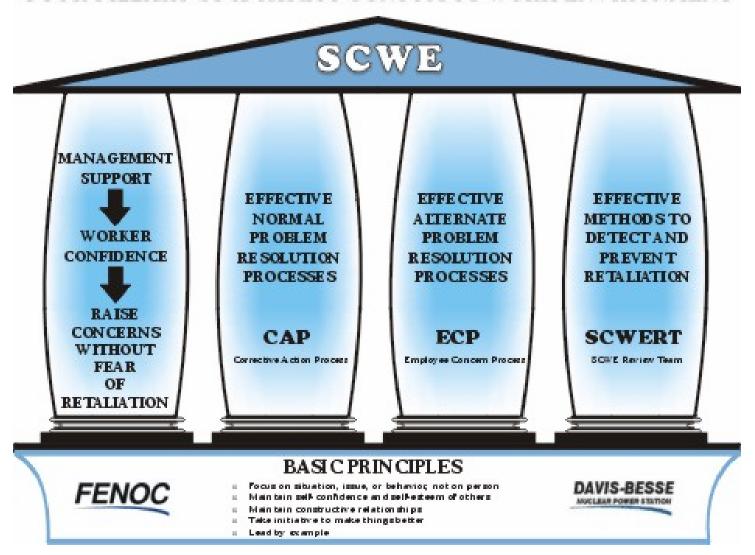
Definition of Safety Conscious Work Environment:

"An environment in which personnel are encouraged to identify problems, are confident that problems will be effectively evaluated and corrected, and are protected from any form of retaliation."



Actions Taken to Date

FOUR PILLARS OF A SAFETY CONSCIOUS WORK ENVIRONMENT



FirstEnergy_®

Actions Taken to Date Safety Conscious Work Environment

- Management Support / Worker Confidence
 - Issued FENOC Policy on SCWE
 - Trained all managers and supervisors on SCWE
 - Trained Operators on SCWE

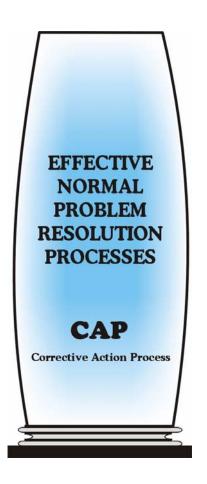


FirstEnergy_®

Actions Taken to Date Safety Conscious Work Environment

Corrective Action Process

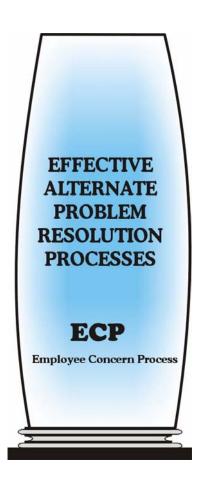
- Enhanced Performance Indicators and Performance Monitoring
- Independent validation of completed Condition Reports
- Other Restart Improvements
 - -Process changes
 - -Procedure enhancement
 - -Oversight changes
 - -Training
 - -Reinstated trending



FirstEnergy_®

Actions Taken to Date Safety Conscious Work Environment

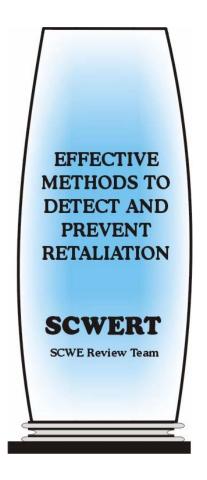
- •Employee Concerns Process
 - Program became effective 12/30/2002
 - Benchmarked other nuclear plants
 (Millstone, Diablo Canyon, San
 Onofre, Nuclear Management
 Company)
 - Reports directly to the Vice President of Oversight
 - -Independent of Site Management
 - Protection of confidentiality
 - Independent investigators available



FirstEnergy_®

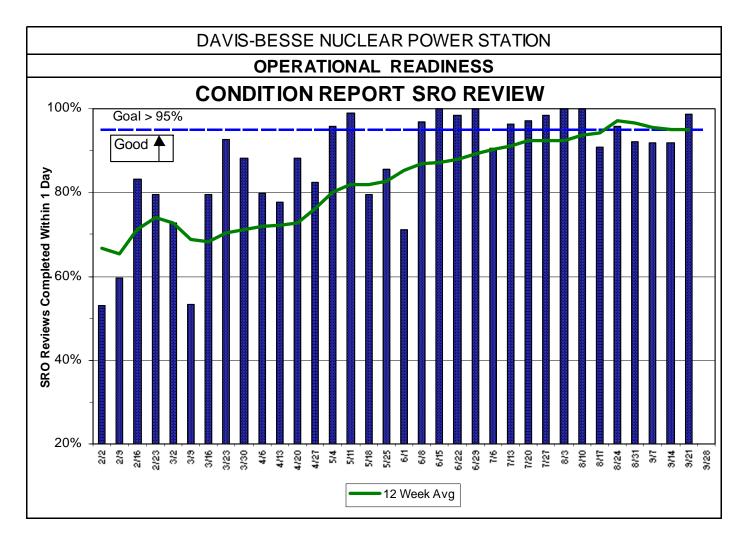
Actions Taken to Date Safety Conscious Work Environment

- Safety Conscious Work
 Environment Review Team
 - Chartered team to review proposed personnel actions
 - Team comprisedof Human Resources,Legal, EmployeeConcerns Program
 - Team oversaw contractor reduction effort
 - Team actively looks for issues which may even give the perception of discrimination

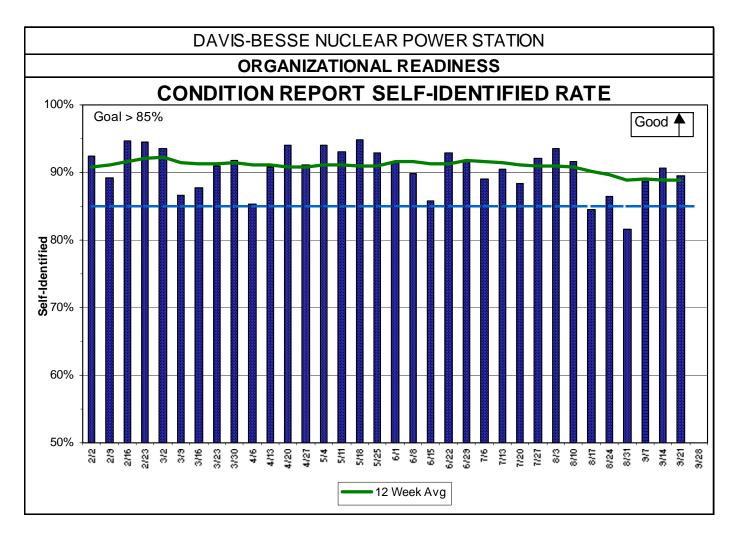


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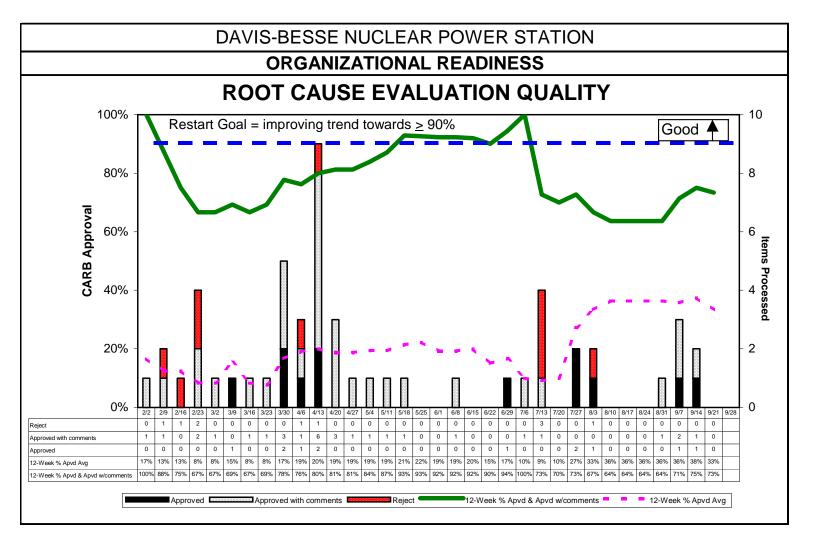




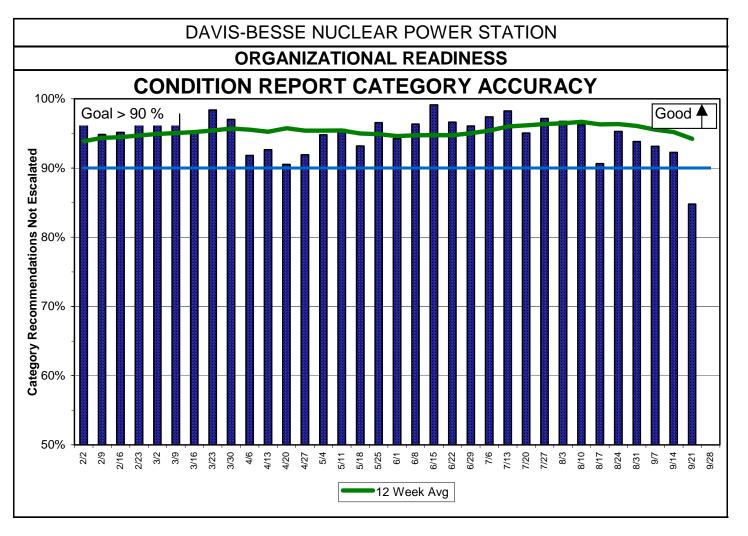




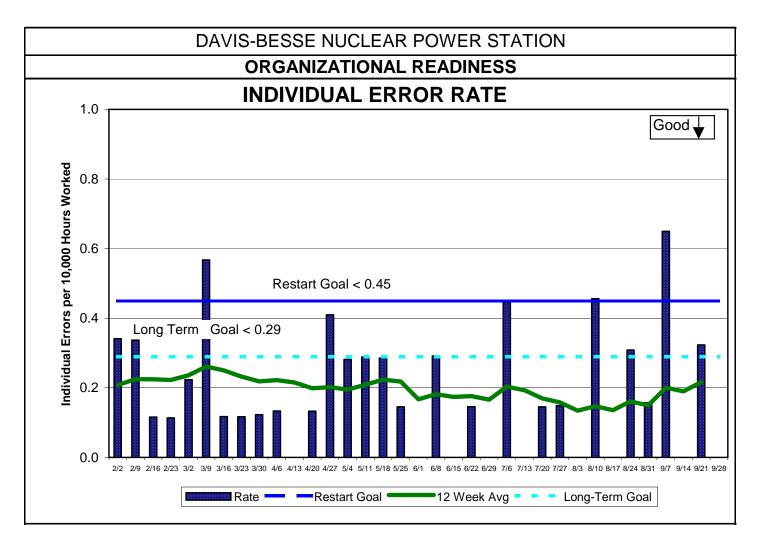




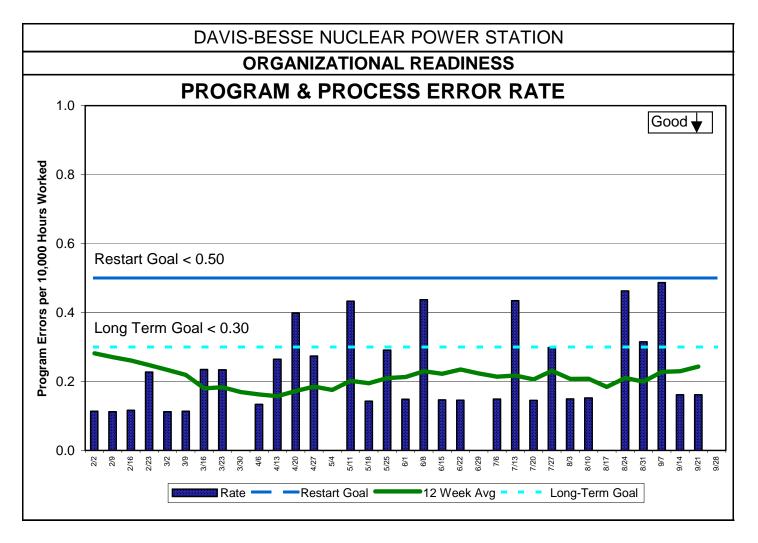




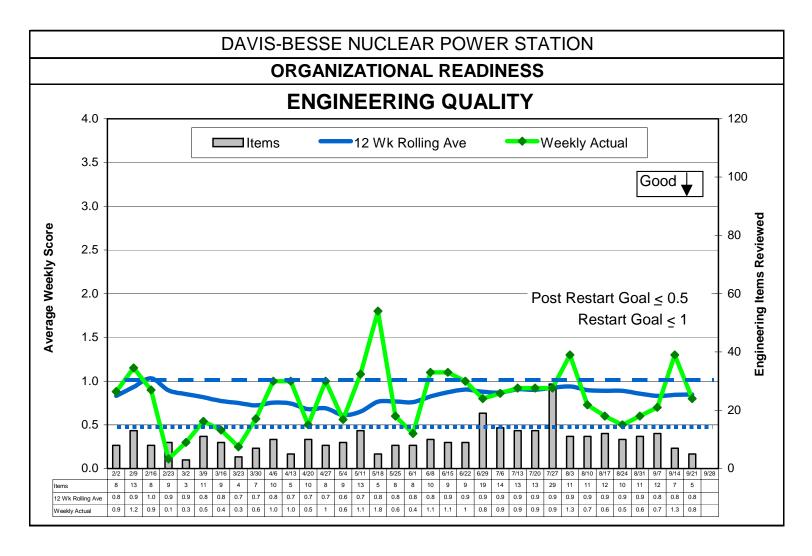








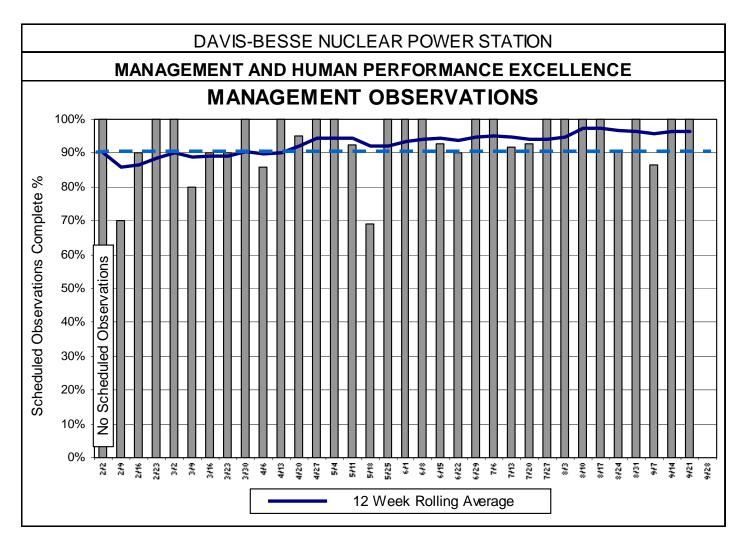




Davis-Besse

Nuclear Power Station







Results of 4-Cs Meeting

- •Chief Operating Officer has met with > 700 employees in groups of ~ 15 to reinforce management support in 4-Cs meetings
 - Open forum where employees to make suggestions and voice concerns
 - Action Items are captured and classified into three areas
 - -Site
 - -Department
 - -Individual
 - Management reviews items to consider improvements





Oversight Perspectives on Safety Culture Effectiveness

Fred Von Ahn Vice President - FENOC Oversight



Assessment of Effectiveness

- •Station Attention to Safety Conscious Work Environment (SCWE)
- Actions Leading to Mode 4
- •Mode 4/3 Execution
- Conclusions to Date



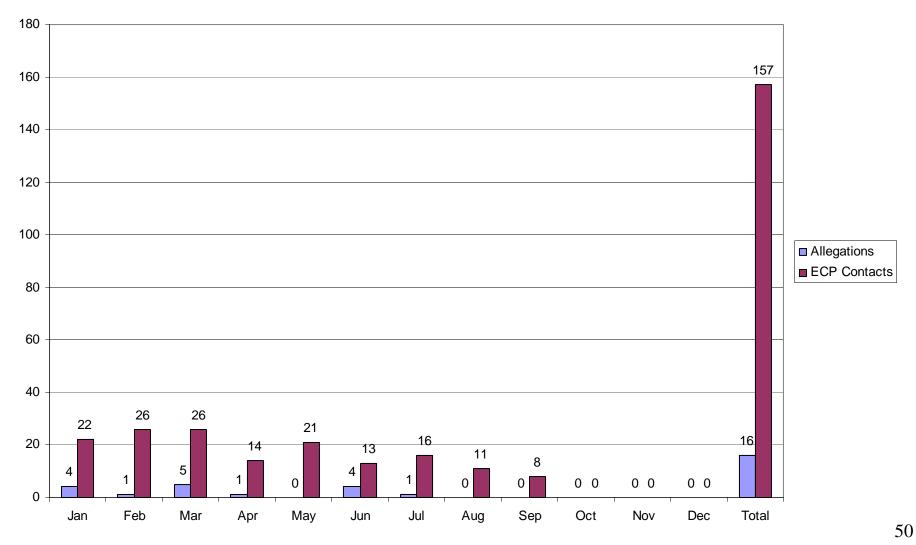
Safety Conscious Work Environment

- Actions Completed
 - Employee Concerns Program Program Initiation
 - Safety Conscious Work Environment Surveys
 - Safety Conscious Work Environment ReviewTeam Initiation
- Effectiveness of Actions





2003 NRC Allegations and ECP Contacts by Month





March 2003 SCWE Survey Results Conclusions

- •Significant improvement in results from 2002 survey
- •Continuing opportunity for site-wide improvement in areas
 - -Management internalization and espousal of "Basic Principles" in dealing with workers
 - -Management reinforcement of safety over cost and schedule





March 2003 SCWE Survey Results Conclusions (continued)

- •Rigorous follow-through on Corrective Actions Program improvements
- •Continuing opportunity for site-wide management reinforcement of SCWE with contractors
- •Significant "challenge pockets" in areas of Radiation Protection/Chemistry, Maintenance, and Plant Engineering for both FENOC and contractor workers



Response Analysis 2002 / 2003 Comparison

			Negative Responses			Negative Responses		
	#	Question	ALL	FENOC	Contractor	ALL	FENOC	Contractor
		Total Number of Workers	386	280	84	1139	666	377
" →	7	I can raise nuclear safety or quality concern without fear of retaliation	18.5%	22.1%	5.6%	7.1%	4.2%	9.9%
	25	I feel free to raise nuclear safety or quality issues on CRs without fear of reprisal	16.1%	18.4%	8.5%	5.6%	3.0%	8.5%
	30	I can use ECP without fear of retaliation	14.6%	18.1%	4.0%	5.1%	3.2%	7.0%
→	35	I have been subjected to HIRD within the last 6 months	7.1%	8.9%	1.2%	8.1%	5.1%	10.9%
	36	I am aware of others who have been subjected to HIRD within the	12.4%	14.6%	4.8%	15.3%	10.2%	22.3%

2002 Survay

"Retaliation"
Questions
→

"HIRD" → Questions

last 6 months

<5% Negative Response</p>
Between 5% and 10% Negative Response
>10% Negative Response

2002 Survay



Actions Leading to Mode 4

- Operations Leadership
- Supporting Groups
- •Station Safety Culture





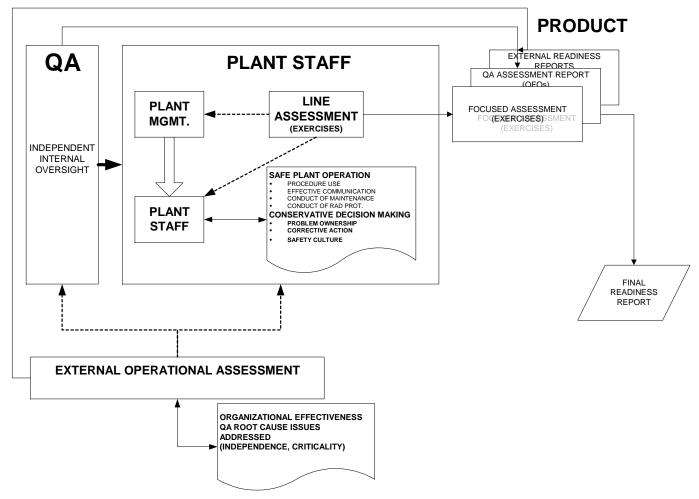
Mode 4/3 Execution

- Measurement Model
- Observations
- Conclusions





INTEGRATED ASSESSMENT DURING SEVEN DAY NOP TESTING





Mode 4/3 Observations

- External
- •Internal Management
- Oversight





Conclusions

- •Pre Mode 4/3
- •Mode 4/3 Activities
- Safety Culture & SCWE
- •Recommendations





Remaining Organizational Actions

Mark Bezilla Vice President - Davis Besse





Remaining Organizational Actions

- Organizational Actions to be completed
 - -Completion of 10CFR 50.9, 'Completeness and Accuracy of Information' training
 - -Strengthen our Calculation Program
 - Contracted Sargent and Lundy to review Condition Report Apparent Causes with calculations
 - -Strengthen our Condition Report Process
 - Condition Report Evaluators will receive Apparent Cause training
 - Establish an Apparent Cause Review Group consisting of Condition Report Analysts





Remaining Organizational Actions

- •Organizational Actions to be completed (continued)
 - -Alignment / teamwork sessions with all employees
 - One day-long site alignment / teambuilding sessions with employees
 - Learning Map rollout
 - Address Lessons-Learned and actions resulting from Nuclear Operating Pressure Test
 - -Restart Readiness Reviews



Long-Term Organizational Effectiveness Vision

Gary Leidich

President and Chief Nuclear Officer - FENOC



Long-Term Organizational Effectiveness Vision





Long-Term Organizational Effectiveness Vision

New FENOC Vision, Strategic Objectives, and Metrics
Safe Plant Operation
People Development and Effectiveness
Excellent Material Condition
Improved Outage Performance
Fleet Efficiency and Effectiveness





Long-Term Organizational Effectiveness Vision

- Organizational Effectiveness
 - -High levels of trust
 - -Employees trust leadership
 - -Leadership trusts employees
 - -Open communications
 - -Speaking and listening
 - -Demonstrated respect for each other
 - -Input and feedback valued
 - -High accountability to each other
 - -Demonstrated inter-department teamwork
 - -Willingness to bring up, hear, and address problems
 - -Management involvement in activities and decisions
 - -Fleetwide Organizational Effectiveness Director





Long-Term Improvement Plan

Randy Fast Director- Organizational Development





New officers and management
At corporate level
At plant level
New corporate-level departments for fleet-wide improvements
Improvements in plant systems to add margin



Improvements for Personnel Performance

Training on lessons learned

New training for managers and supervisors on nuclear safety focus and professionalism

Department level expectations

Improvements in communications and teamwork

Alignment of management and personnel

Improvements in personnel evaluations and development

Leadership development

Operations Leadership

New Employee Orientation Manual



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Improvements in Programs

Program reviews and benchmarking

Corrective Action Program

Employee Concerns Program

Operating Experience Program

Radiation Protection Program

Boric Acid Corrosion Control and Leak Detection Programs

Operability Evaluations

Problem Solving and Decision-Making





Improvements in Monitoring and Oversight

Management Observations

New performance indicators

New Safety Culture Assessments

New Engineering Assessment Board and improved Corrective Action Review Board

Augmented independence and capability of Quality
Assurance

Improvements in Company Nuclear Review Board and Board oversight





Long-Term Improvement Plan

- •Future monitoring schedule
 - Business Practice to 'monitor' the safety culture monthly along with Business Practice performance
 - Line organization safety culture assessment prior to Mode 2
 - Line Management Safety Assessment every two years
 - SCWE survey in the 4th quarter of 2003 (annually thereafter)
 - Quality Assurance Independent Assessment in the 4th quarter of 2003 (annually thereafter)
 - Outside independent safety culture assessment in the 4th quarter of 2004



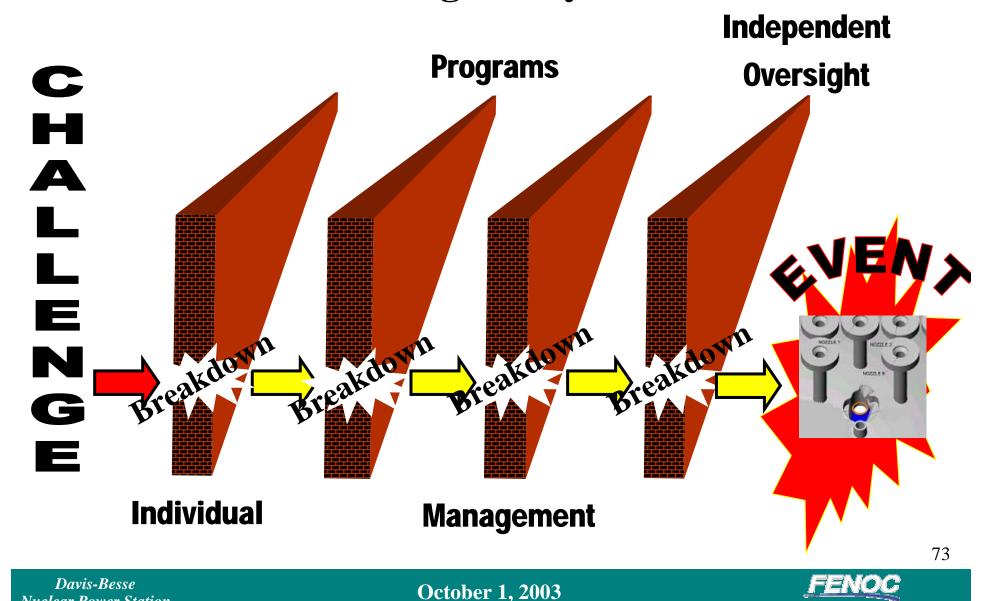


Barriers Demonstrating FENOC'S Strong Safety Focus

Lew Myers Chief Operating Officer - FENOC



FirstEnergy Barriers Demonstrating FENOC'S **Strong Safety Focus**



Nuclear Power Station

FirstEnergy, Drive for Excellence Questioning Attitudes Rigorous Work Control and Prudent Approach Open Communications Nuclear Professionalism

Barriers Demonstrating FENOC'S Strong Safety Focus

- •Individual Commitment Completed
 - -Evaluated Supervisors
 - -Provided Reactor Head Case Study Training
 - -Provided Supervisor Refresher Training on Leadership in Action
 - -Provided Supervisor Training on SCWE
 - -Strengthened Individual Ownership and Commitment
 - Engineering Rigor
 - Operability Decision-Making
 - Operator License Responsibilities Training
 - Shift Manager Command Responsibility
 - -Participation in Town Hall and 4-C Meetings
 - -Participation in Monthly All-Hands Meetings
 - -Strengthened Questioning Attitude
 - Standard Format for Pre-Job Briefings
 - -Implemented Operator Leadership Plan
 - -Requalified All Root Cause Evaluators



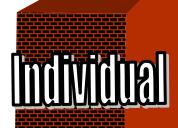
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FirstEnergy, Drive for Excellence Questioning Attitudes Rigorous Work Control and Prudent Approach Open Communications Nuclear Professionalism

- •Drive for Excellence Assessment Input
 - -Number of Systems Classified Maintenance "a (1)"
 - -Number of Workarounds
 - -Number of Temporary Modifications
 - -Number of Control Room Deficiencies
 - -Individual Error Rates
 - -Number of Long-Standing Equipment Problems
 - -Percent of Self-Identified Condition Reports
 - -Number of Engineering Condition Reports Outstanding
 - -Engineering Assessment Board Index

FirstEnergy 4 6 1 Drive for Excellence Questioning Attitudes Rigorous Work Control and Prudent Approach Open Communications Nuclear Professionalism

- •Questioning Attitudes Assessment Input
 - Quality of pre-job briefings as a management observation
 - -Number of Condition Reports (CRs) per person per group
 - -Number of programmatic CRs
 - -Number of procedure problems
 - -Number and type of operational events (e.g., tagging errors, mispositioning)



Drive for Excellence

Questioning Attitudes

Rigorous Work Control and Prudent Approach

Open Communications

Nuclear Professionalism

- •Rigorous Work Control and Prudent Approach - Assessment Input
 - -Employee Event Free Clock
 - -Industrial Safety Index
 - -Employee error rate
 - –Program process error rate
 - -Significant human performance errors resulting in plant transients
 - -Backlog of procedure change requests
 - -Quality Control hold point/rework rate
 - -Number of work orders
 - -Scheduled/completed each week
 - -Number of late PMs
 - -Backlog of corrective maintenance
 - -Number of "a (1)" systems



FirstEnergy, Drive for Excellence Questioning Attitudes Rigorous Work Control and Prudent Approach Open Communications Nuclear Professionalism

- •Open Communications Assessment Input
 - Number of Condition Reports per person per group
 - Number of concerns going to Employee
 Concerns Program vs. NRC
 - Ad-hoc surveys pulsing of organization
 - Feedback from 4C's Meeting
 - KIP Program: Keep Improving Performance

FirstEnergy | Drive for Excellence Questioning Attitudes Rigorous Work Control and **Prudent Approach** Open Communications Nuclear Professionalism

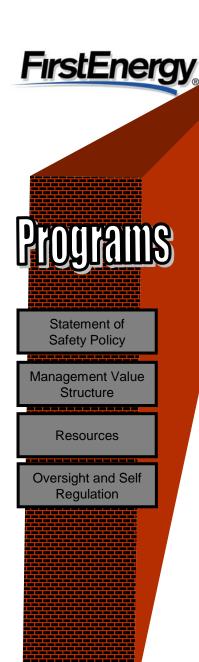
- •Nuclear Professionalism Assessment Input
 - -Completion of Ownership for Excellence
 - -Training attendance
 - -Rework
 - -Individual Development Plans
 - -Results of Engineering Assessment Board Assessments
 - -Number of yellow windows in training
 - -Absence of low-level Radiation Protection events
 - -Chemistry Performance Index



FirstEnergy | Statement of Safety Policy Management Value Structure Resources Oversight and Self Regulation

- Policy Level Commitment Completed
 - -FirstEnergy Board Passed Resolution on Nuclear Safety
 - -CEO FirstEnergy Reinforced Safety Commitment
 - -Policy Established on Safety Culture
 - -Enhanced FENOC Values, Mission, and Vision
 - -Business Plan Focus Areas on Safety
 - -Board Strengthened Incentive Programs Tie to Safety
 - -Implemented FENOC Corporate Organizational Structure Changes
 - Reviewed Resources for Adequacy
 - -Established Independent Executive-Level Quality Assurance
 - -Greatly Strengthened Employee Concerns Program
 - -Established a SCWE Policy





Barriers Demonstrating FENOC'S Strong Safety Focus

Policy Level Commitment - Completed

- -Established a safety policy and emphasis on a regular basis by senior management
- -Ad-Hoc surveys of employee awareness of safety policy
- -Oversight evaluation of SCWE and safety performance
- -Anchored in performance appraisal program
- -Assessed adequacy of resources during Restart Readiness Review



Emphasis on Safety

Responsibilities and Cohesiveness

> Acceptance of Responsibility

Qualification and **Training**

High Organizational

Commitment

Barriers Demonstrating FENOC'S Strong Safety Focus

- Management Commitment Completed
 - -Improved Management Technical Competence
 - -Strengthened Corrective Action Review Board
 - -Established Engineering Assessment Board
 - -Increased Manager Involvement in Safety-Related Work
 - -Revised Competencies in Appraisal Process
 - -Nuclear Professionalism and Safety Consciousness
 - -Leadership in Action Training on Additional Competencies
 - -Assigned Owners and New Expectations for Engineering and Programs
 - -Established Strong Management Observation Program
 - -Field and Training Observations
 - -Established High Organizational Commitments
 - -Programs Benchmarked to Industry's Best
 - -Design Modifications to Improve Safety Margins
 - -Improved Problem Solving and Decision-Making Procedure
 - -Restart Review Meetings for Changes in Plant Modes
 - -Lincoln Consulting Group Strategies and Activities to Increase Leadership, Teamwork and Alignment

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Management

Emphasis on Safety

Clear
Responsibilities
and Cohesiveness

Acceptance of Responsibility

Qualification and Training

High Organizational Commitment

- •Emphasis on Safety Assessment Input
 - -Implementation of Management Observation Program
 - -Frequency of plant tours and questioning of observed conditions
 - -Nuclear safety emphasized to employees on a regular basis
 - -Completion of Leadership in Action and SCWE Training
 - -Encouragement of employee questioning attitude on safety (e.g., newsletters, 4 C's Meetings)
 - -Recognition of employees who improve safety
 - Application of NOP-ER-3001, Problem Solving and Decision Making
 - -Program ownership (e.g., fuel reliability)
 - -Modifications to improve margins (e.g., containment emergency sump)
 - -Operator Recertification Program



Management

Emphasis on Safety

Clear
Responsibilities
and Cohesiveness

Acceptance of Responsibility

Qualification and Training

High Organizational Commitment

- •Clear Responsibilities and Cohesiveness Assessment Input
 - Personnel Error Rate
 - Demonstration of clear ownership of programs
 - Ad-Hoc surveys to pulse organization's understanding that nuclear safety is the highest priority
 - Corrective Action Review Board assessments of ownership
 - Engineering Assessment Board evaluations of ownership
 - Program ownership (e.g., Leak Rate Program, Boric AcidControl Program, Reactivity Management Program)



Management

Emphasis on Safety

Clear Responsibilities and Cohesiveness

Acceptance of Responsibility

Qualification and Training

High Organizational Commitment

- •Acceptance of Responsibility Assessment Input
 - Performance Appraisals/Development Plans
 - Ad-Hoc surveys of willingness to challenge employees, other managers and superiors regarding safety considerations
 - System assessment as a means to increase safety margins, such as
 - -FLÜS Leak Monitoring System
 - -Containment Emergency Sump
 - -Diesel Starting Air
 - Nuclear Quality Assurance Field Assessments
 - Number of Management Observations Requiring Coaching

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Management Management

Emphasis on Safety

Clear Responsibilities and Cohesiveness

Acceptance of Responsibility

Qualification and Training

High Organizational Commitment

- •Qualification and Training Assessment Input
 - -Benchmarking of organizational staffing
 - -Restart required training
 - -Root cause training completed (e.g., Tap Root)
 - -Operability determination training (> 175 individuals)
 - -Training on legal responsibilities of licensed operators
 - -SCWE Training (>300 Individuals)
 - -Standdown on January 27 on Safety Culture Policy
 - -Training on NOP-ER-3001, Problem Solving and Decision-Making (e.g., Decay Heat Pump, Cavity Seal Post Mod Testing)
 - -Training on Reactor Head Case Study
 - -Training on Standards and Expectations
 - -Training identified by Curriculum Review Committee meetings



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Management

Emphasis on Safety

Clear Responsibilities and Cohesiveness

Acceptance of Responsibility

Qualification and Training

High Organizational Commitment

- •High Organizational Commitment Assessment Input
 - Implementation and training of employees on Safety Conscious Work Environment
 - Effective Employee Concern Program
 - Restart Oversight Panel Assessment
 - Licensed Operator Pipeline
 - Benchmark programs against industry standards
 - Operator crew benchmarking
 - Scheduled Management Observation Program
 - Goals for zero temporary modifications, zero control room deficiencies, and zero operator work arounds

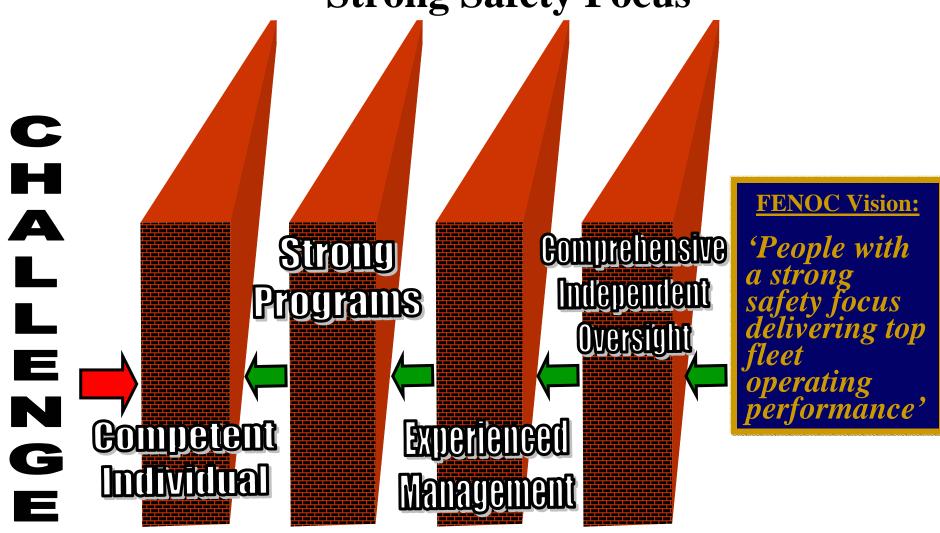




- •Independent Oversight Completed
 - -Enhanced Quality Assessment Organization
 - -Vice President Oversight
 - -CNRB Rechartered
 - -Nuclear Committee of the Board of Directors
 - -Quality Control Realignment
 - -Safety Conscious Work Environment Program
 - -Employee Concerns Program
 - -INPO Assist Visits
 - -Restart Overview Panel
 - -Quality Assurance Quarterly Assessment
 - -Safety Culture Assessment



FirstEnergy Barriers Demonstrating FENOC'S Strong Safety Focus





Seven Day NOP Test

- •Challenges occurred during preparation and during Normal Operating Pressure (NOP) Test
 - Core Flood Tank Valve
 - Containment Spray Pump Breaker
 - Auxiliary Feedwater Fuses
 - Auxiliary Feedwater Pump No. 1 Testing
- •Right level of attention
 - Each work activity stopped upon discovery of issue
 - Problem-Solving/Decision-Making Team assembled
 - Management attention focused on issue
 - Personnel and material issues resolved
- •Completed NOP Test



Closing Comments

Lew Myers

Gary Leidich

Chief Operating Officer - FENOC

President and Chief Nuclear Officer - FENOC