



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
612 EAST LAMAR BLVD, SUITE 400
ARLINGTON, TEXAS 76011-4125

April 26, 2010

Randall K. Edington,
Executive Vice President,
Nuclear and Chief Nuclear
Officer
Mail Station 7602
Arizona Public Service Company
PO Box 52034
Phoenix, AZ 85072-2034

SUBJECT: MEETING SUMMARY FOR PUBLIC MEETING WITH ARIZONA PUBLIC
SERVICE COMPANY

Dear Mr. Edington

On March 30, 2010, the NRC held a public meeting to present the NRC annual assessment of Palo Verde Nuclear Generating Station's safety performance for the period January 1 through December 31, 2009. Also discussed was the status of performance improvement actions to address the revised Confirmatory Action Letter items. The meeting was held at the Tonopah High School Auditorium in Tonopah, Arizona. The meeting attendance list, a copy of the NRC presentation, and a copy of the licensee presentation are included as Enclosures 1, 2, and 3.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC web site at <http://www.nrc.gov/reading-rm/adams.html> (The Public Electronic Reading Room).

Should you have any questions concerning the matter, we will be pleased to discuss them with you.

Sincerely,

/RA/

Ryan Lantz, Chief
Project Branch D
Division of Reactor Projects

Dockets: 50-528; 50-529; 50-530
Licenses: NPF-41, NPF-51, NPF-74

Enclosures:

1. Attendance List
2. Nuclear Regulatory Commissions Slides
3. Palo Verde Nuclear Generating Station Presentation

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Phoenix, AZ 85072-2034

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Arizona Corporation Commission
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Southern California Edison Company
2244 Walnut Grove Avenue
Rosemead, CA 91770

Chairman
Maricopa County Board of Supervisors
301 W. Jefferson, 10th Floor
Phoenix, AZ 85003

Mr. Aubrey V. Godwin, Director
Arizona Radiation Regulatory Agency
4814 South 40 Street
Phoenix, AZ 85040

Mr. Dwight C. Mims
Vice President
Regulatory Affairs and Plant Improvement
Palo Verde Nuclear Generating Station
Mail Station 7605
P.O. Box 52034
Phoenix, AZ 85072-2034

Chairman, Board of Supervisors
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Phoenix, AZ 85040

Ronald A. Barnes, Director
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MS 7638
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Senior Regulatory Counsel
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Los Angeles Department of Water & Power
Southern California Public Power Authority
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Public Service Company of New Mexico
2401 Aztec NE, MS Z110
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Mr. Geoffrey M. Cook
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Mr. Robert Henry
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Scottsdale, AZ 85251

Mr. Brian Almon
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William B. Travis Building
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Austin, TX 78701-3326

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City of Phoenix
Office of Environmental Programs
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Phoenix, AZ 85003

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Branch
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Records Center
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Electronic distribution by RIV:

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- DRP Director (Dwight.Chamberlain@nrc.gov)
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- DRS Director (Roy.Caniano@nrc.gov)
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- Senior Project Engineer, DRP/D (Don.Allen@nrc.gov)
- Senior Resident Inspector (Ryan.Treadway@nrc.gov)
- Branch Chief, DRS/TSB (Michael.Hay@nrc.gov)
- RITS Coordinator (Marisa.Herrera@nrc.gov)
- Public Affairs Officer (Victor.Dricks@nrc.gov)
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- OEDO RIV Coordinator (Leigh.Trocine@nrc.gov)
- ROPreports.Resource@nrc.gov

File located: R:_Reactors\PV.doc

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| SUNSI Rev Compl. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | ADAMS | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Reviewer Initials | DBA |
| Publicly Avail | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Sensitive | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Sens. Type Initials | DBA |
| RE:DRS/TSB | SPE:DRP/D | C:DRP/D | | | |
| JMelfi | DAllen | RLantz | | | |
| /RA/ | /RA/ | /RA/ | | | |
| 4/21/10 | 4/21/10 | 4/26/10 | | | |

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax

42 (D)
attendance

| PUBLIC MEETING ATTENDANCE | | |
|---------------------------|--|---------------------------|
| LICENSEE/FACILITY | Palo Verde Nuclear Generating Station | |
| DATE/TIME | March 30, 2010 6:30 MST | |
| CONFERENCE LOCATION | Tonopah Valley High School 38201 W. Indian School Road Tonopah, AZ | |
| NAME (PLEASE PRINT) | ORGANIZATION | TITLE |
| JOHN HESSER | APS | VP ENGINEERING |
| Betty Dayyo | APS | Comm. Consult |
| Mohammad Karbassian | APS | ENGINEERING |
| MIKE POWELL | APS | DIRECTOR, NEM |
| Dan Brandt | APS | CEO |
| Rob Henry | SRP | Site Rep. |
| Marty Eroh | APS | Env. Dept. |
| HARVEY LESAN | APS | Env. Dept |
| Charles Karlson | APS | Eng Section leader |
| Diana Bohr | APS | Comm. Rel |
| A K Krainik | APS/PVNGS | License Renewal Dept Ldr. |
| Scott Zerkel | APS/PVNGS | Ops Dept Ldr - Training |
| Dwaine Carnes | APS/PVNGS | Asst. Plant Mgr |
| GEORGE ANDRUS | APS/PVNGS | ASST. PLANT MGR |
| JEANNE CORSEY | APS/PVNGS | ECP MANAGER |

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PUBLIC MEETING ATTENDANCE

| | | |
|---------------------|--|------------------------------|
| LICENSEE/FACILITY | Palo Verde Nuclear Generating Station | |
| DATE/TIME | March 30, 2010 6:30 MST | |
| CONFERENCE LOCATION | Tonopah Valley High School 38201 W. Indian School Road Tonopah, AZ | |
| NAME (PLEASE PRINT) | ORGANIZATION | TITLE |
| M. Bail | WPF/APS | Plant Manager |
| Donna Thomas | APS | Director, Executive Projects |
| Don Wheeler | APS | DL-PIID |
| Gary Shanker | APS | Dir Site Programs |
| Jara Oreskack | APS | Compliance Constra |
| JOHN TAYLOR | EPE | owner rep |
| Dwight Mims | APS | VP Reg Affairs/PLT-Impt |
| Jamie Livorsi | APS | Consultant Safety Culture |
| Jim Compas | Westinghouse | Vice President |
| MATTHEW BENAC | APS | DIRECTOR |
| Larry Johnson | APS | Manager |
| RUSTY STRAID | APS | LICENSING |
| W. GROVER HETTEL | APS | OPERATIONS |
| Doug Coxon | APS | Operations |
| Ryan Ranby | Arizona Republic | Reporter |

PUBLIC MEETING ATTENDANCE

| | | |
|---------------------|--|-----------------------|
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| CONFERENCE LOCATION | Tonopah Valley High School 38201 W. Indian School Road Tonopah, AZ | |
| NAME (PLEASE PRINT) | ORGANIZATION | TITLE |
| Tim Henline | PVNGS, OCS Grp | Team Member |
| Mike Hooshmand | PVNGS, Engr | DL |
| Terry Young | Palo Verde | Dir. Comm. |
| Tom Barsik | PV | SR EPCOR |
| Wayne Pierce | PV | EP Facilities |
| M Ray | PV | EP DIR |
| Fred Lake | PV | CAP DL |
| Antonius Char | PV | Site Finance Mgr |
| JOHN GAFFNEY | PV | R.P. DIRECTOR |
| Tom Weber | PV | DL Reg Affair |
| Peter McSparran | PV | Training |
| LUAN NGUYEN | L.A. SEPT. OF WATER & POWER | PROJECT ADMINISTRATOR |
| | | |
| | | |
| | | |



Palo Verde Nuclear Generating Station Annual Assessment and Confirmatory Action Letter Status Meeting

Reactor Oversight Program - CY 2009

Nuclear Regulatory Commission - Region IV

March 30, 2010

1



NRC Representatives

- Tony Vogel, Deputy Director/DRP
- Ryan Lantz, Branch Chief
- Ryan Treadway, Senior Resident Inspector
- Greg Pick, Senior Reactor Inspector

2



NRC Representatives (cont.)

- Joseph Bashore, Resident Inspector
- Michelle Catts, Resident Inspector
- Mica Baquera, Resident Inspector
- Winston Smith, Reactor Engineer
- Laura Uselding, Public Affairs Officer
- Lauren Gibson, Reactor Systems Analyst

3



Purpose of Today's Meeting

- A public forum for discussion of Palo Verde's performance
- Open dialogue between Palo Verde and NRC
 - NRC to discuss Palo Verde performance
 - Palo Verde response
- Present License Renewal Safety Inspection Results

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Agenda

- Reactor Oversight Process
- NRC Oversight Activities
- Plant Performance Results
- Licensee Response
- NRC Closing Remarks
- License Renewal Inspection Results
- Question and Answer Session

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NRC's Mission

Protect public health and safety
and the environment

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NRC's Strategic Goal's

- Safety: Ensure adequate protection of public health and safety and the environment
- Security: Ensure adequate protection in the secure use and management of radioactive material

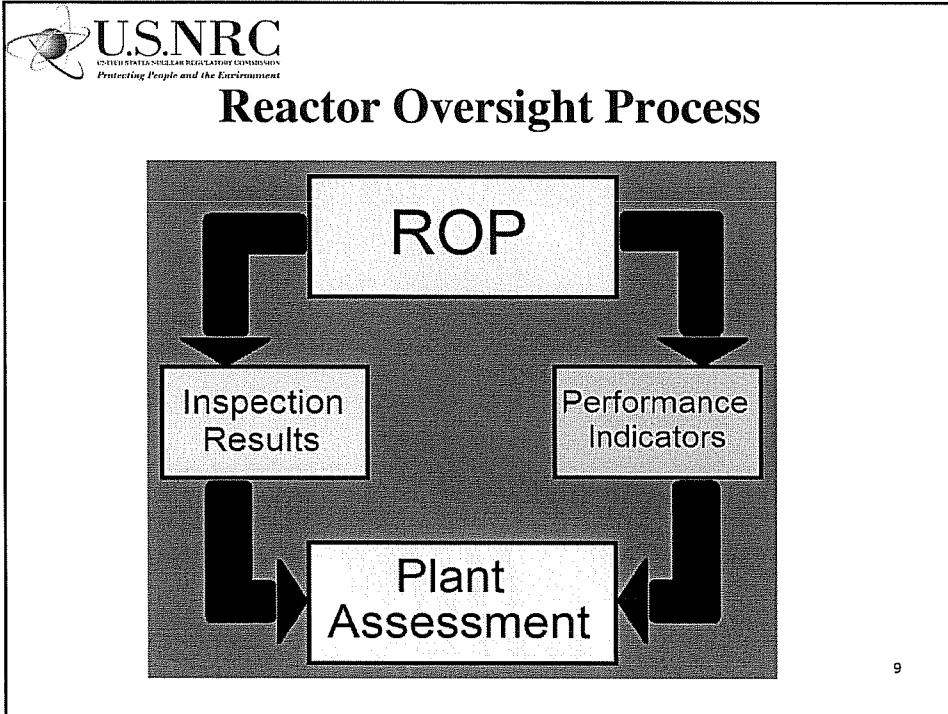
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Reactor Oversight Process

- Two inputs used for performance assessment
 - NRC inspection results
 - Performance indicator data
- As performance declines NRC oversight increases

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-  **U.S.NRC**
UNITED STATES NUCLEAR REGULATORY COMMISSION
Protecting People and the Environment
- ## Historical Performance
- 2007 – NRC Team Inspection and PVNGS assessment results identify key areas for improvement
 - Feb 2008 – Confirmatory Action Letter issued
- 10



Confirmatory Action Letter (CAL)

- 12 key performance areas required improvement
 - Yellow finding – voided ECCS piping
 - White finding – emergency diesel failure
 - Problem identification and resolution
 - Human performance
 - Engineering programs

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Historical Summary

- Resolution of past problems
- Safety culture survey
- Accountability
- Change management
- Emergency Preparedness
- Longstanding equipment concerns
- Backlog

CAL consisted of 454 specific actions

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Oversight

- Increased NRC management oversight
- Increased Inspections
 - Over 1500 hours of additional inspection to review CAL actions
 - 5 team inspections
 - 10 person team inspection in Feb 2009

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Oversight (cont.)

- Resident Inspections—approx. 3200 hrs
- Regional Specialist Inspections- approx. 900 hours
 - Reactor Safety
 - Emergency Preparedness
 - Fire Protection
 - Security
 - Radiation Protection

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Assessment Results

- Palo Verde operated safely

- Confirmatory Action Letter addressed

- Notable improvement
 - Identifying and fixing problems
 - Human performance

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NRC Planned Activities For 2010

- Comprehensive, safety focused inspections

- Additional inspections planned for verifying improvements are being sustained

- Periodic public meetings

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Licensee Response and Remarks

Randall Edington
Senior Vice President, Nuclear
and
Chief Nuclear Officer
Arizona Public Service Company

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NRC Concluding Remarks

Tony Vogel, Deputy Director/DRP

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Contacting the NRC

- Report an emergency
 - (301) 816-5100 (call collect)
- Report a safety concern:
 - (800) 695-7403
 - Allegation@nrc.gov
- General information or questions
 - www.nrc.gov
 - Select “What We Do” for Public Affairs
- Victor Dricks, Public Affairs Officer, RIV
 - 817-860-8128
 - vld@nrc.gov

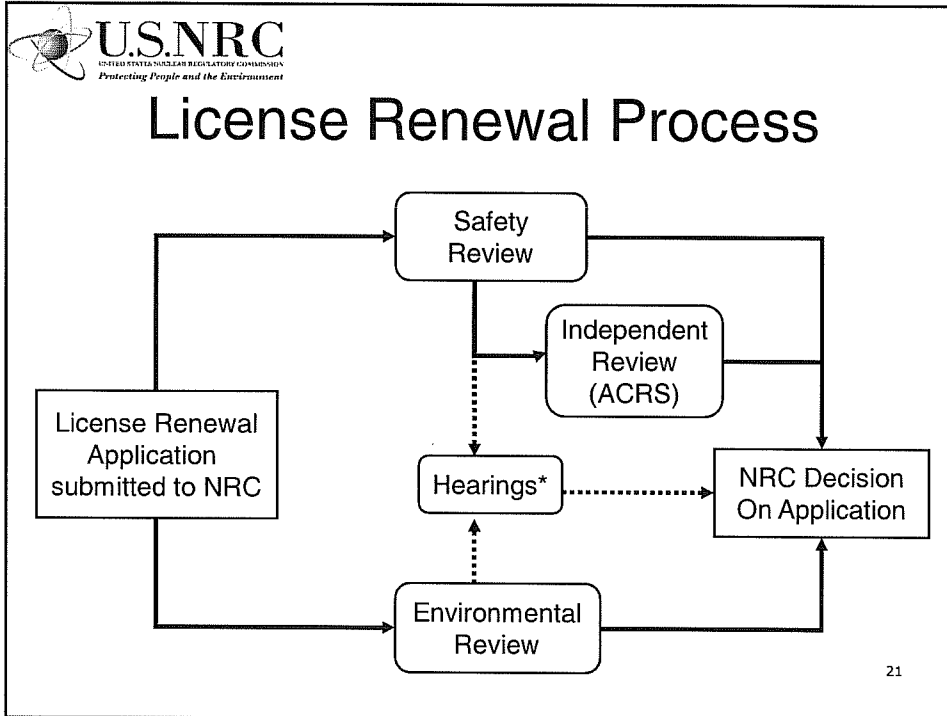
19



Reference Sources

- Reactor Oversight Process
 - <http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html>
- Public Electronic Reading Room
 - <http://www.nrc.gov/reading-rm.html>
- Public Document Room
 - 1-800-397-4209 (Toll Free)

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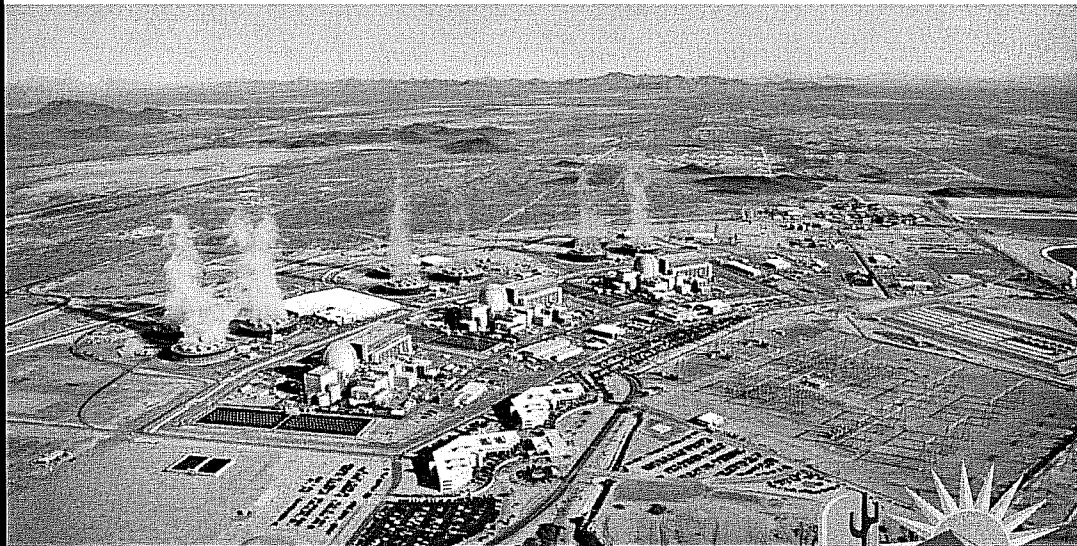


-
- ## License Renewal Inspection Results
- Scoping & Screening
 - Aging Management Programs
 - System Reviews
 - Reasonable Assurance
 - Applicant Comments
- 22



Questions and Answers

A POWERFUL ALLIANCE



Randy Edington

**Executive Vice President and
Chief Nuclear Officer**



Recognize where we've been...

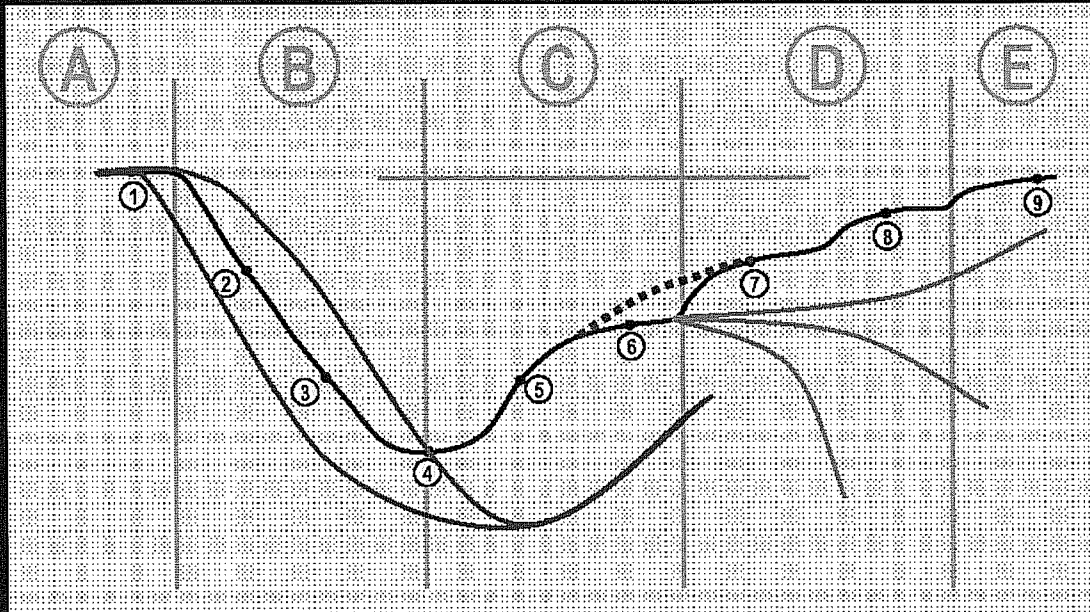


Emphasize where we are
and where we are going

Gone, But Not Forgotten



Potential Stages of Power Plants

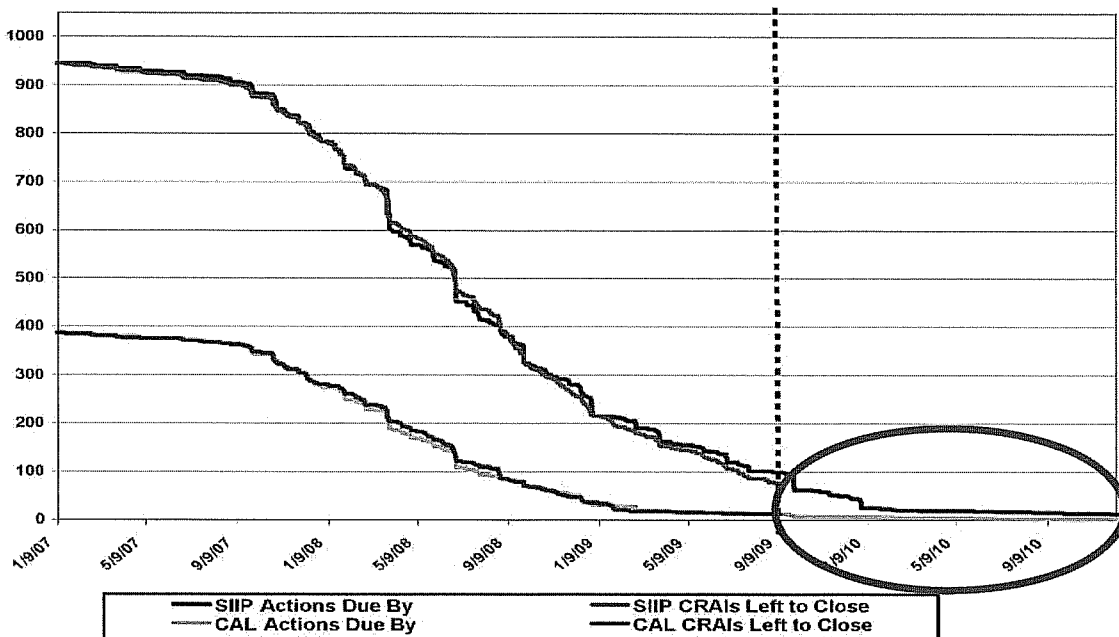


Ron Barnes

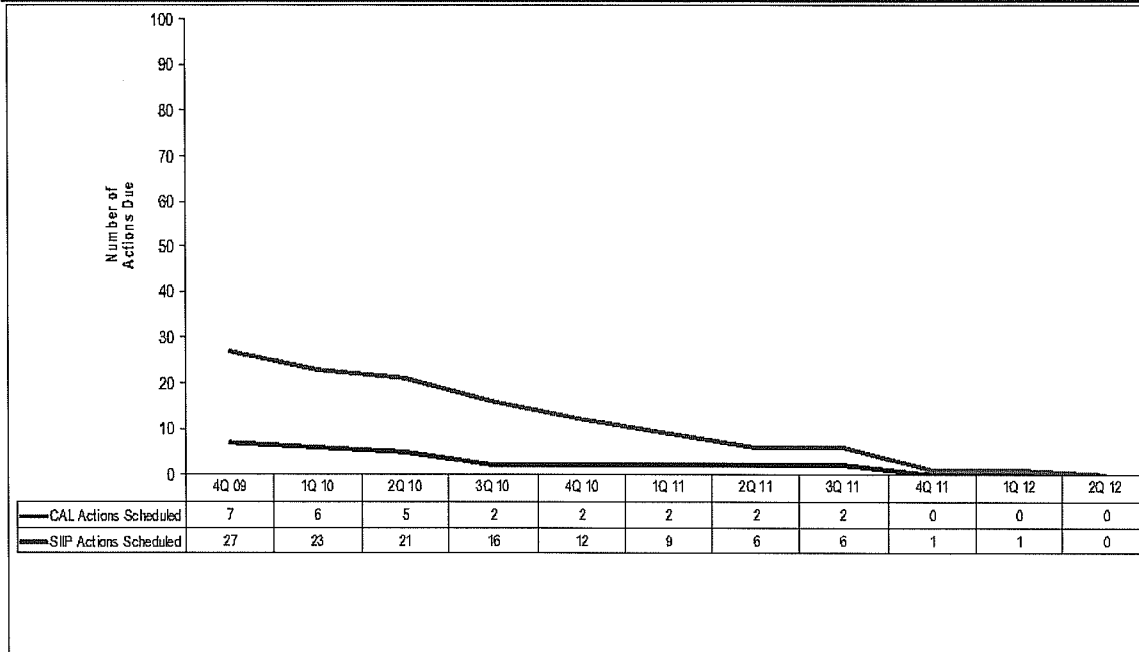
Director
Nuclear Regulatory Affairs



CAL/SIIP Schedule Adherence



CAL/SIIP Actions Remaining



Transition to Beyond CAL *Industry Lessons Learned*

- **Why do plants stall or slip at this point?**
 - ◆ They don't have business plans that drive them to the next level
 - ◆ They move people too soon
 - ◆ They remove budgets too soon, too far
 - ◆ Their Standards and Expectations aren't high enough
 - ◆ They remove "safety nets" too soon

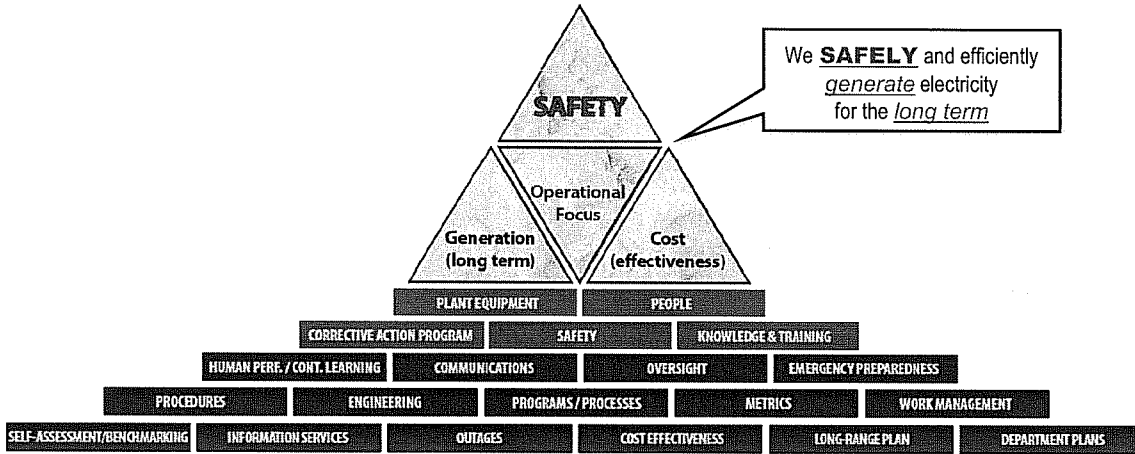
Safety Net Processes

- **Operability Determination Daily Challenge Boards**
- **Closure Review Boards**
- **100% CRDR Closure Reviews**
- **Engineering Product Review Boards**
- **Effectiveness Review Challenge Boards**

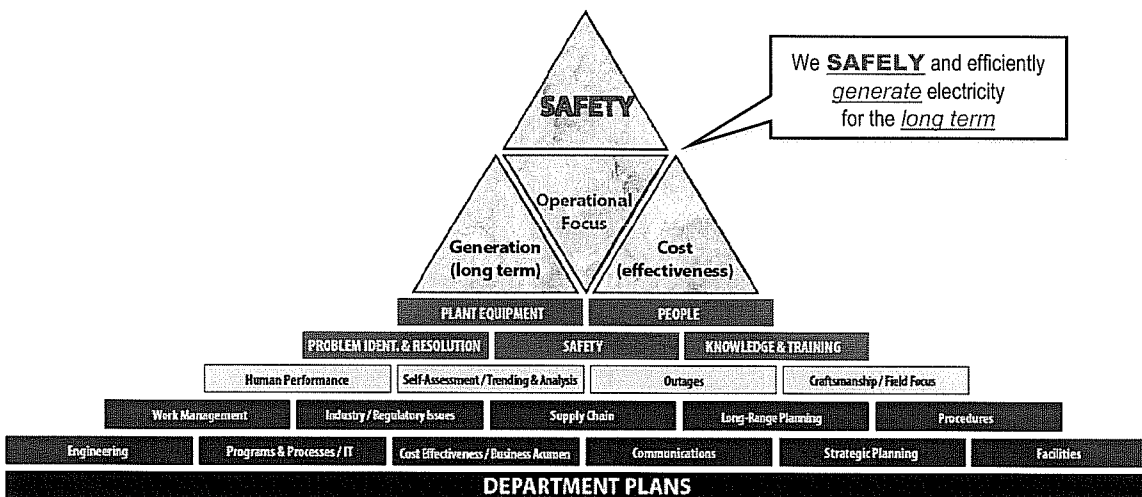
Transition to Beyond CAL *Sustaining Continuous Improvement*

- **NRC Post-CAL Follow-up Inspection**
 - ◆ No findings identified
 - ◆ Several observations noted
- **Post-CAL Self-assessment**
 - ◆ Volume / Priorities
 - ◆ Human Performance
 - ◆ Outages

Current Business Plan



2010-2013 Business Plan

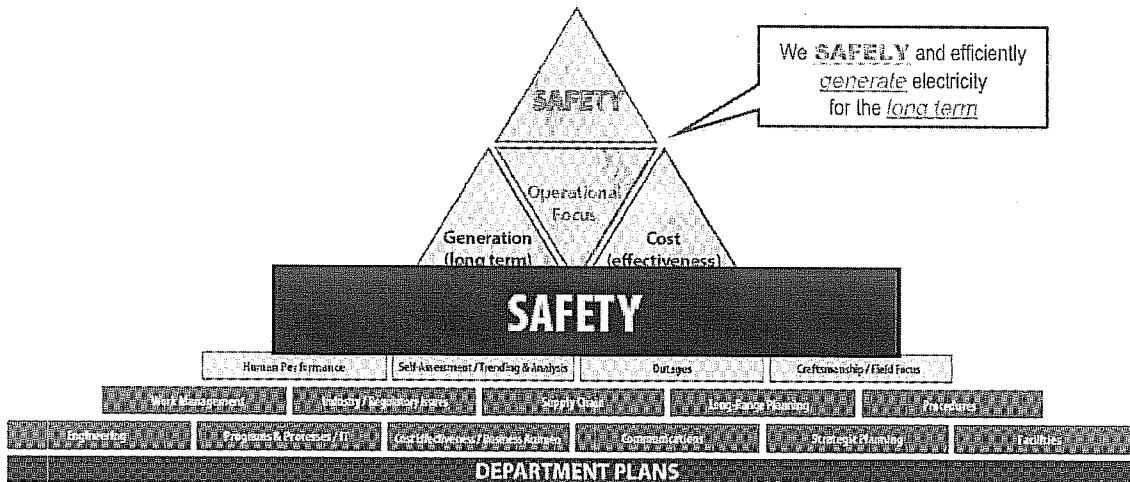


Lou Cortopassi

Plant Manager



2010-2013 Business Plan



SAFETY

- **Nuclear**

- ◆ Shutdown Risk Assessment
- ◆ Mitigating System Performance Index

- **Industrial**

- ◆ Voluntary Protection Program



Voluntary Protection Programs
An OSHA Cooperative Program

SAFETY

- **Nuclear**
 - ◆ Shutdown Risk Assessment
 - ◆ Mitigating System Performance Index
- **Industrial**
 - ◆ Voluntary Protection Program
- **Radiological**
 - ◆ Line engagement in ALARA planning
- **Safety Culture**

Safety Culture

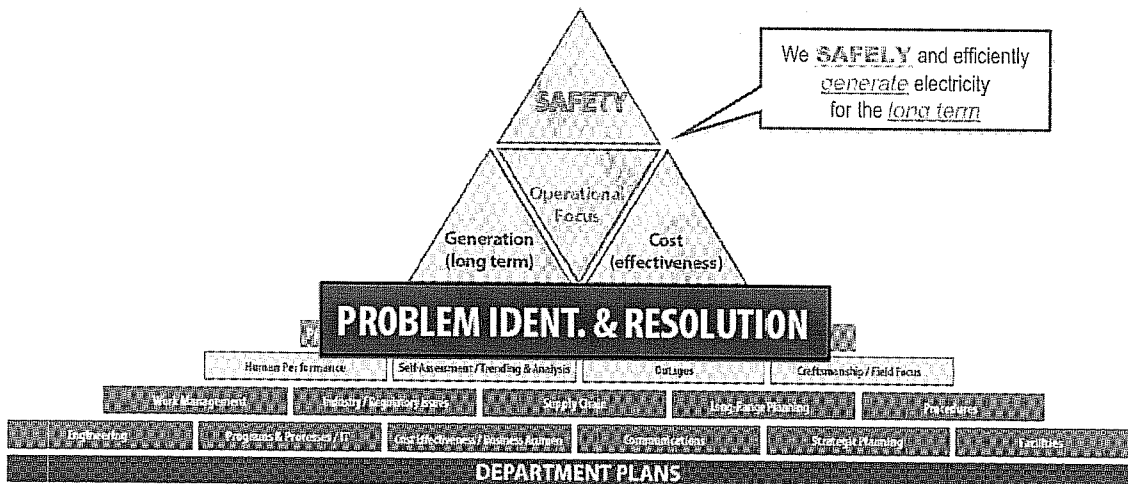
- **Past Activities and Status**
 - ◆ Significant improvement in 2008 and 2009
- **Present Activities and Status**
 - ◆ Safety Culture Review Group
 - ◆ SCWE training for Leaders and Vendors
 - ◆ Improvement actions into Department Plans

Safety Culture

■ Future Activities and Plans

- ◆ Two Safety Culture Assessments in 2010
- ◆ Continue to anchor Safety Culture
- ◆ SCWE Training – Map and Enhance
- ◆ Bi-Annual Safety Culture Assessments
- ◆ Industry and Palo Verde Operating Experience

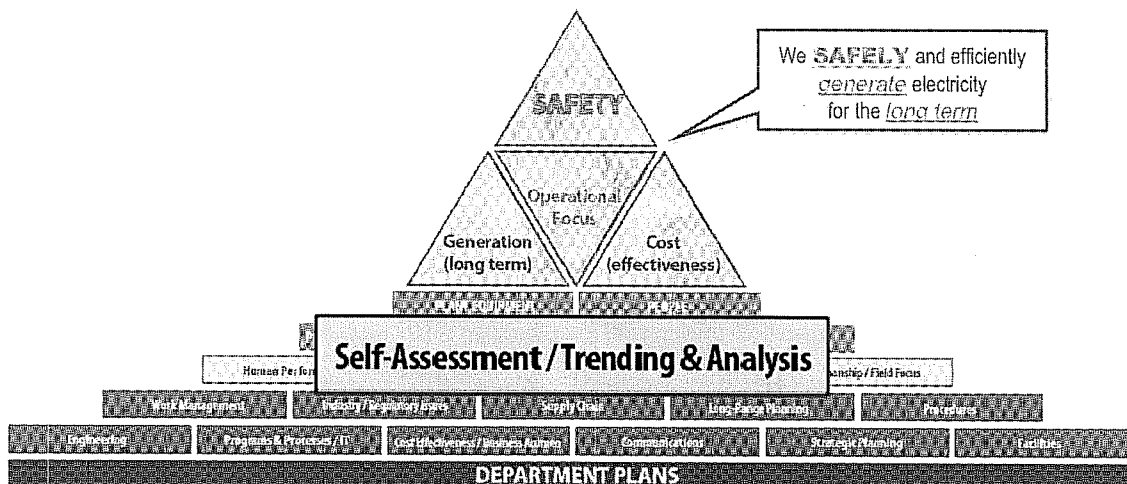
2010-2013 Business Plan



Problem Identification and Resolution (PI&R)

- Continued monitoring and evaluation of cross-cutting aspects
 - ◆ Evaluation conducted for P.1.c (Evaluations)
 - ◆ STARS common cause evaluation completed for P.1.c (Evaluations)
- Site Integrated Business Plan initiatives
 - ◆ Issue Ownership
 - ◆ Causal Evaluations
 - ◆ Pre-CARB reviews
 - ◆ Department-level CAP Scorecards

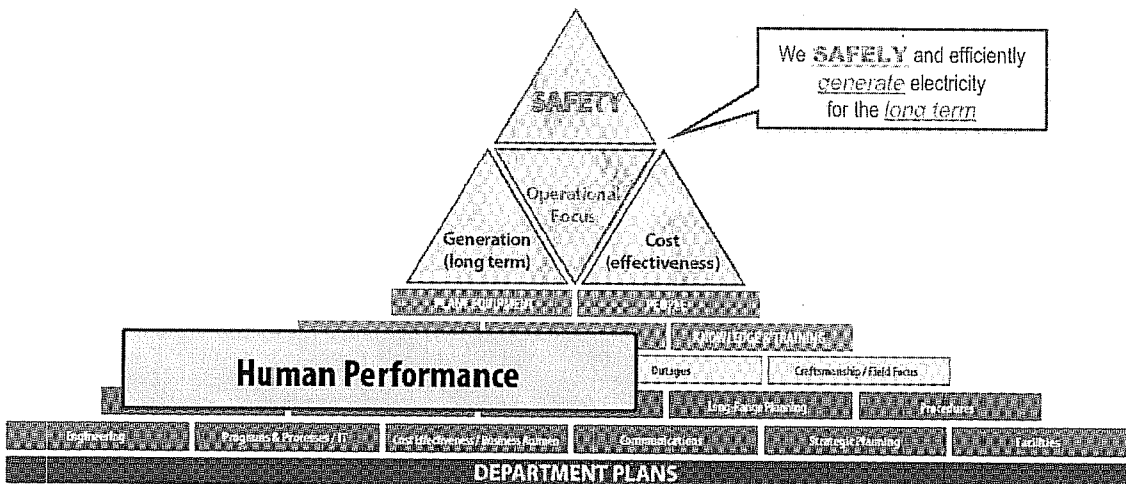
2010-2013 Business Plan



Self-Assessment / Trending and Analysis

- Self-Assessment Manager / organization
- Two-year Self-Assessment schedule
- Integrated Performance Assessments
- Self-Assessment Review Board
- Improving Trending and Analysis

2010-2013 Business Plan



Human Performance

■ Fundamentals

- ◆ Leader Oral Boards
- ◆ Procedure Use and Adherence, Status Control, Clearance and Tagging, Verifications, Communications

■ Observation Program

- ◆ One-over Leader Reviews for Quality
- ◆ Trending of areas for improvement at department level

■ Coaching

- ◆ Coach-the-Coach training

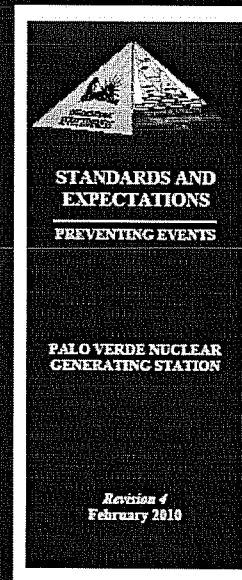
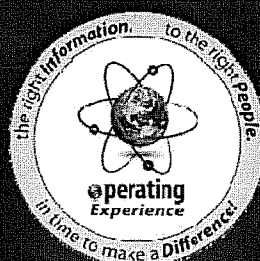
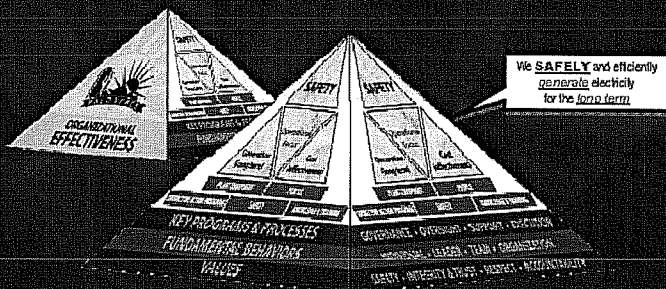
■ Use of the Tools

- ◆ Standards and Expectations Booklet

■ Systematic Trending and Analysis

- ◆ Integrated Performance Assessments

Focusing on Fundamentals: Corrective Action Program and Human Performance

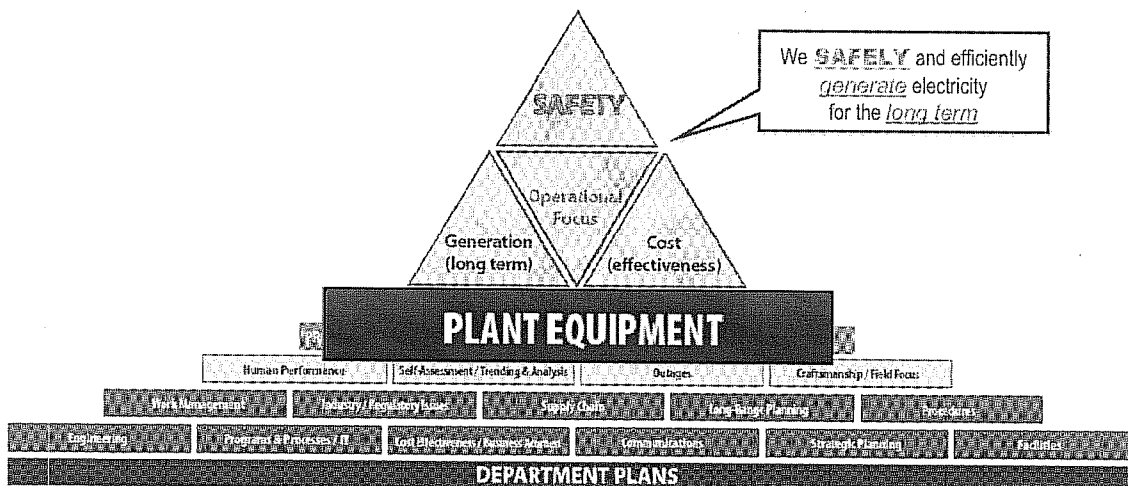


John Hesser

Vice President
Nuclear Engineering



2010-2013 Business Plan





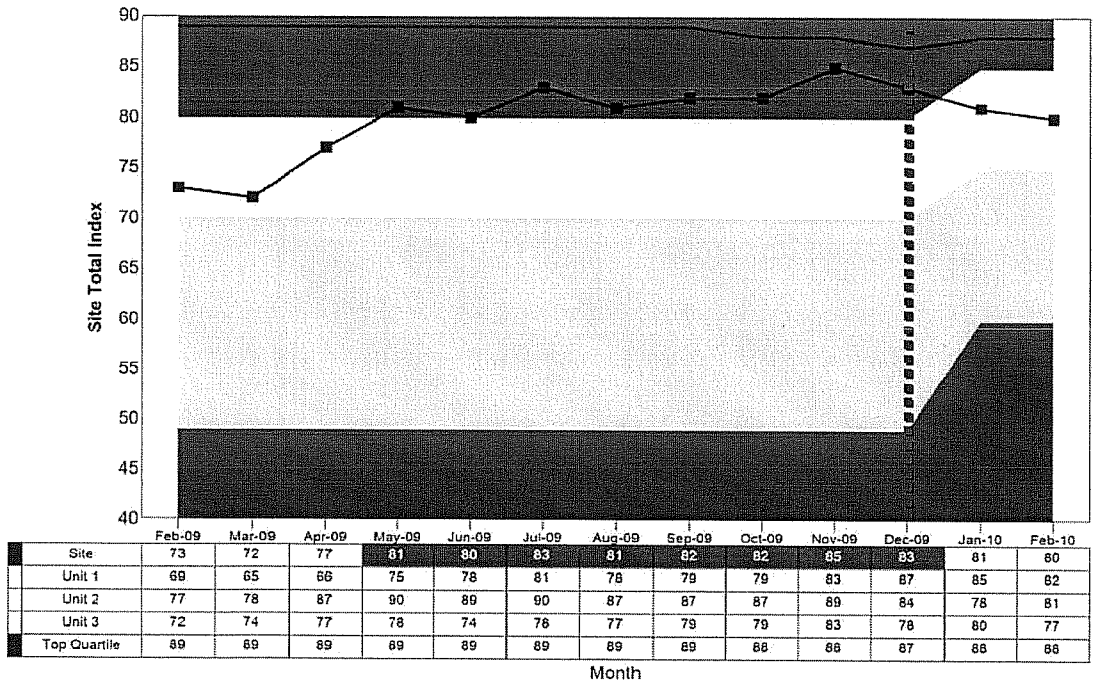
SITE TOP 10 TECHNICAL ISSUES

| Site Top 10 Issues | COMMENTS | SPONSOR |
|--|--|------------------|
| 1. Spray Pond Chemical Addition and Filtration | Chemical addition complete all 3 units; Acid addition in process; Filtration on hold | Dan Frey |
| 2. MSIV/FWIV Accumulator Margin | Main Steam and Feed Water Isolation pressure control valves scheduled 1R15, 3R15, and 2R16 | Jim Taylor |
| 3. Letdown Control System Instability | Teflon packing installed, boosters removed from letdown valves, backpressure reduced | Mike Colvin |
| 4. Charging Pump Reliability | New plungers installed on 8 of 9 pumps. New bladders being procured and installed by Feb 2011 | Jeff Summy |
| 5. Plant Computer System Reliability | CMC/COLSS upgrade installed in 2R15, scheduled for 1R15 and 3R15 | Doug Coxon |
| 6. PN System Inverter Reliability | PM tasks aligned with industry. Current settings changed in 3R14, 2R15, scheduled for 1R15 | Dennis Swan |
| 7. Fuel Building Lighting (SAFETY) | Lighting improvement modification funded and scheduled for 2011 implementation | Bill Chapin |
| 8. Unit 2 Essential Cooling Water Tube Leaks | New Issue - Tube replacement in 2R16 (PVAR 3446926) | Dwayne Carnes |
| 9. Feedwater Hydrazine Pump Improvement | Pump replacement modification in 2R16, 1R16, and 3R16 | Dan Frey |
| 10. Condenser Integrity | New Issue - Condenser action plan due 4-18-2010 (PVAR 3446918) | George Andrews |
| Site Second Top 10 Issues | | |
| 11. Safety Injection System Venting Issues | Alter SI insulation to allow ultrasonic testing (~33% comp) Vent valves installation in 1R15/3R15/2R17 | Mike Colvin |
| 12. Spray Pond Material Condition | New Issue - Correct spray pond concrete degradation (PVAR 3446930) | Mike Renfro |
| 13. Spray Pond Flow Margin Recovery | Margin recovery design modifications being evaluated. PHC approval scheduled for April 2010 | Jeff Summy |
| 14. 140-foot Aux Building Ventilation Control | Action plan complete. Effectiveness review in progress | Howard Ridenhour |
| 15. Polar Crane Reliability | PHC approved funding for Phase 1 design study - target 1R17 for first implementation | Mike Winsor |
| 16. Steam Generator Blowdown System Reliability | New Issue - Valve and controls action plan due 4-18-2010 (PVAR 3446934) | Pete Borchert |
| 17. Boreated Water Management / Cask PH Level Indication | Refueling Water Tank modification in 1R15, 3R15, and 2R16 | Danny Arbuckle |
| 18. CEDMCS System Improvements | Automatic CEDM Timer Module (ACTM) Upgrade scheduled for 1R16, 3R16, and 2R17 | Mike Winsor |
| 19. QSPDS Reliability | QSPDS Plasma Display Unit replacement scheduled for 1R16, 3R16, and 2R17 | Mike Winsor |
| 20. EDG Excitation System Reliability | Automatic Voltage Regulator (AVR) upgrade in 3R16, 2R17, 1R17 | Jeff Summy |

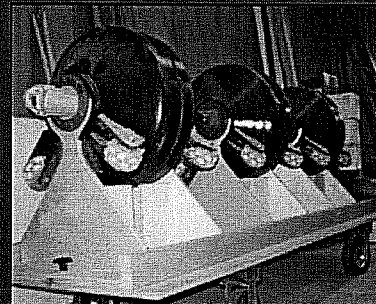
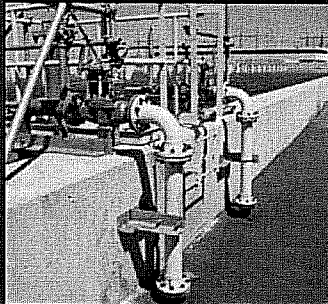
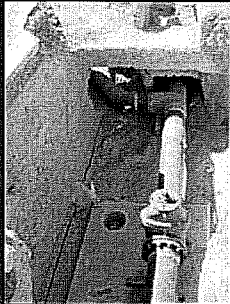
| EDG Leaks | ECCS Pump Oil Leaks | Liquid Radwaste System Degradation | Cooling Tower Improvements | SI Check Valve | HPSI Pump Oil Level | Main Feedwater Pump Seal | Control Room Chart Recorders | Unit 1 BOP/ESFAS Sequencer |
|-----------------|-----------------------------|------------------------------------|----------------------------|--------------------------|---------------------|--------------------------|---|-----------------------------|
| Target Rock SOV | EDG Fuel Oil Injection Pump | EDG K-1 Relay | EDG Governor | Containment Sump Screens | RCS Weld Overlays | 65-Acre WRF Re-Line | Low-Pressure Turbine Rotor Replacements | Steam Generator Replacement |

March 2010 We SAFELY and efficiently produce electricity for the world.

Equipment Reliability Index



Buried Piping



License Renewal



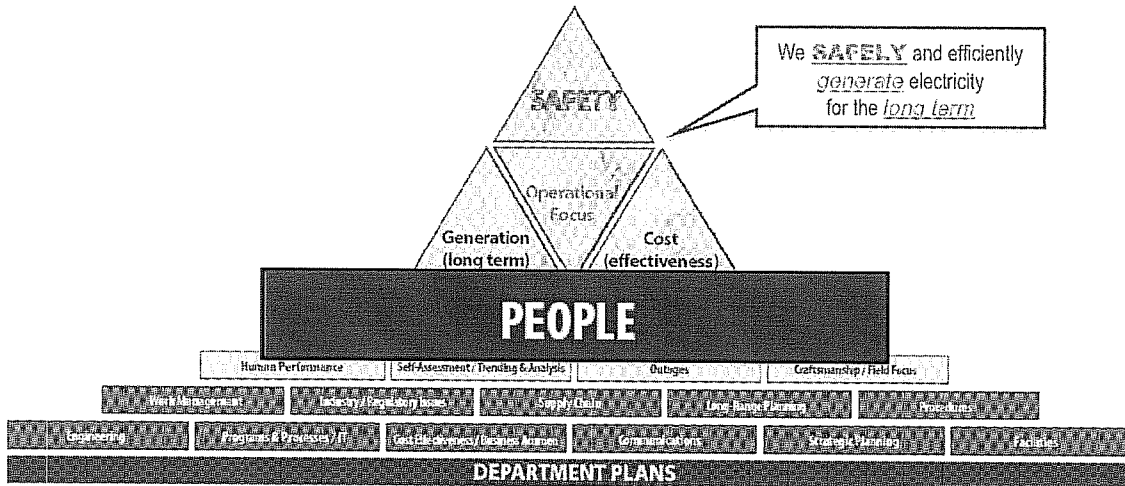


Bob Bement

**Vice President
Nuclear Operations**



2010-2013 Business Plan

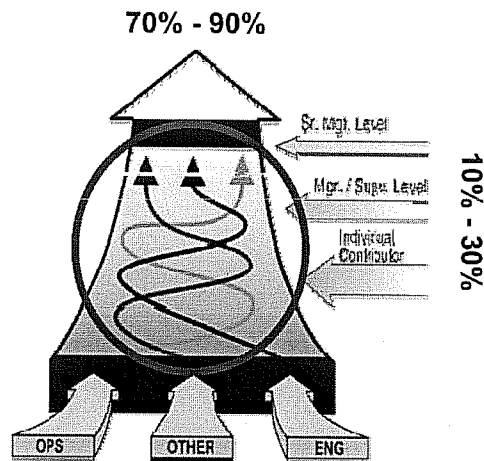


Hiring and Development Model... Hiring for OUR Future

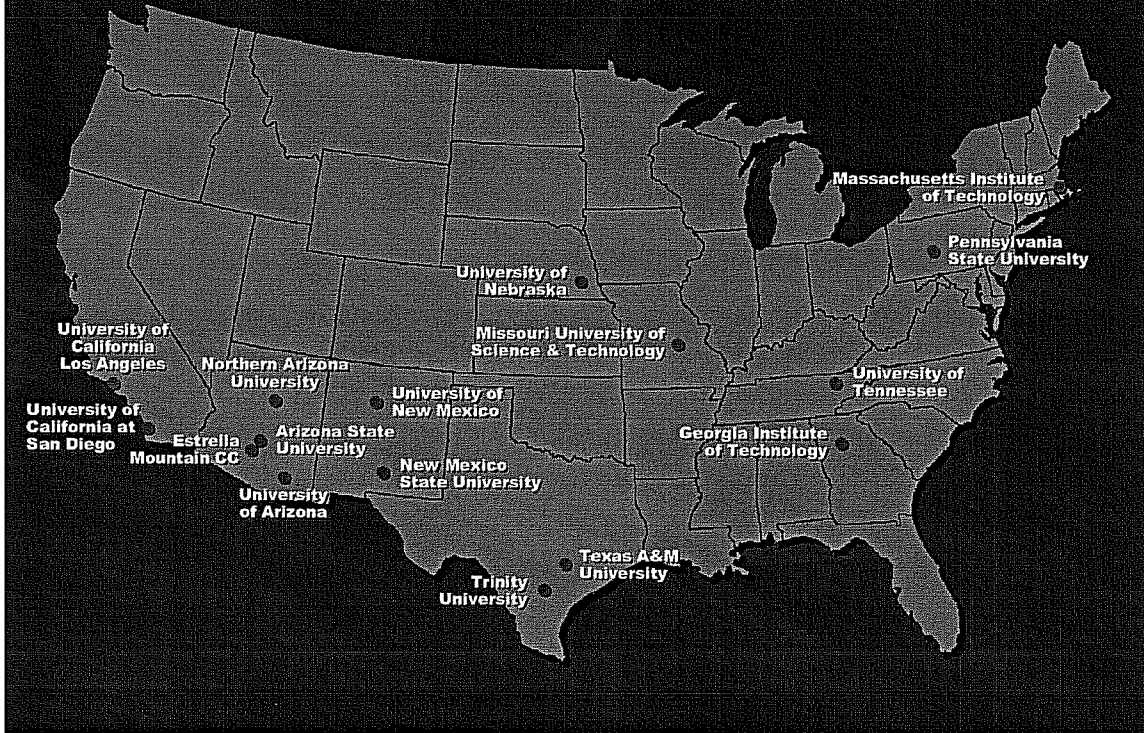
What do you want the organization to look like in 5 years, 10 years, 15 years?

Planning for OUR future includes:

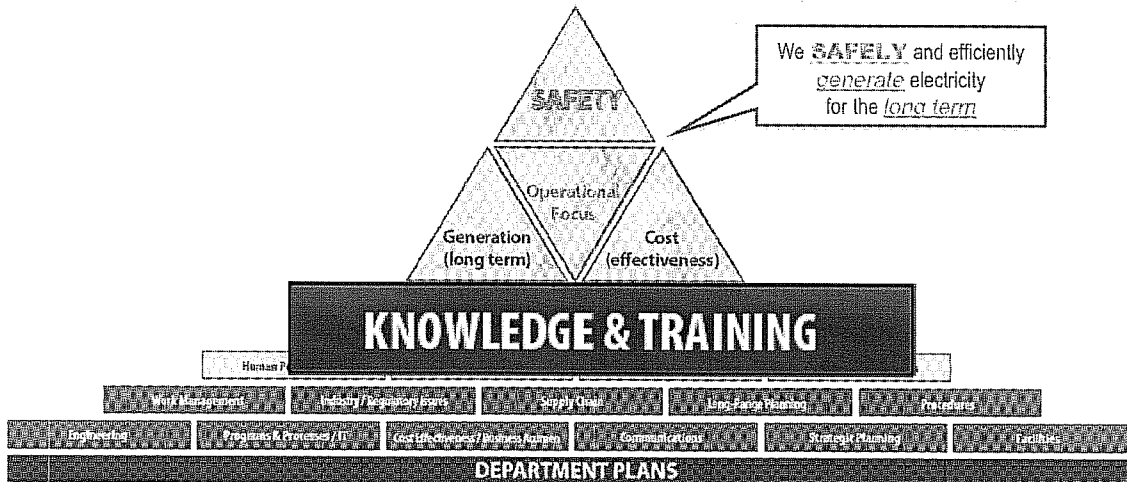
- Workforce Planning
- Initial and Targeted Hires
- Performance Management
- Development and Retention
- Compensation and Rewards
- Metrics / Effectiveness Reviews



Hiring and Developing Employees



2010-2013 Business Plan



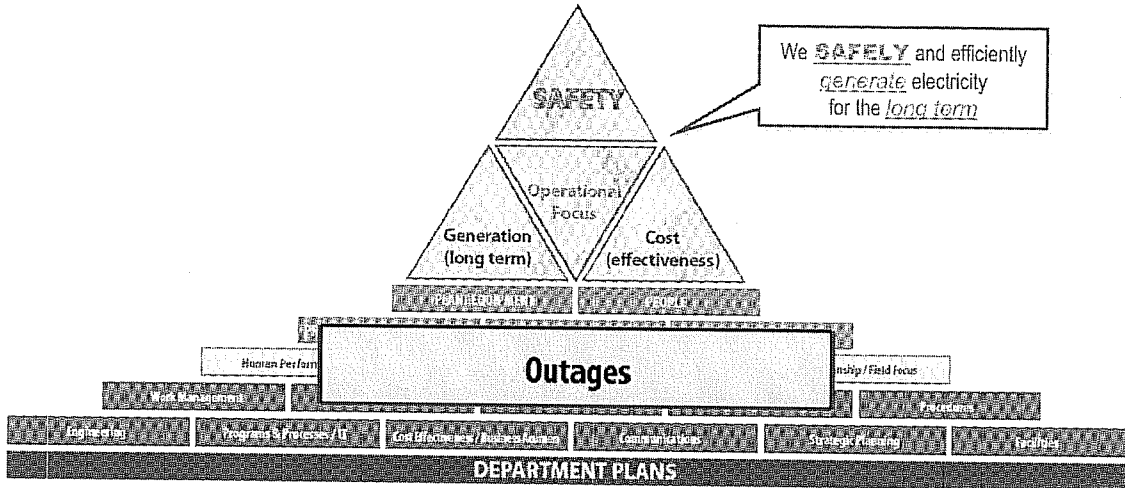
Knowledge and Training

- Operator “pipeline”
- Engineering Legacy Program
- Maintenance Internship and Apprenticeship Programs
- Craftsmanship Training
- Engineering Excellence Training
- Four-week Systems Class
 - ◆ 10 classes to date with 193 students
- Summer Internships

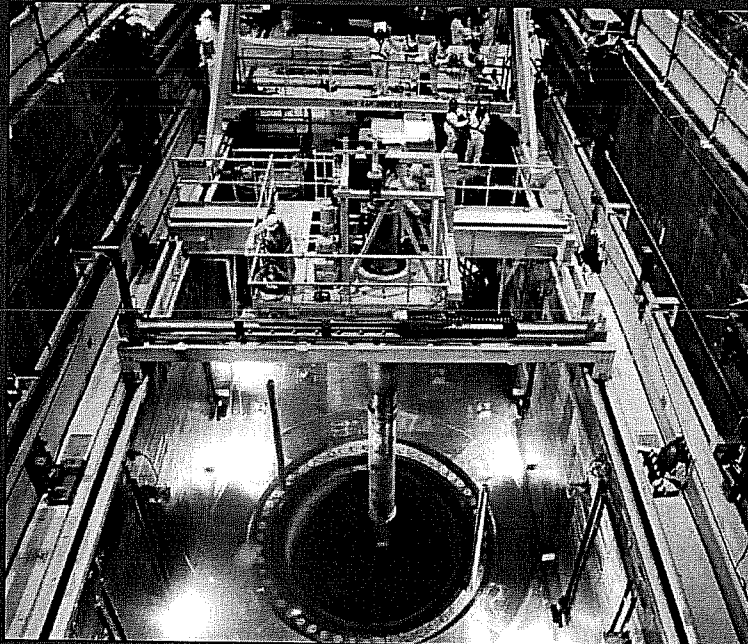
Engagement with local Universities and Colleges



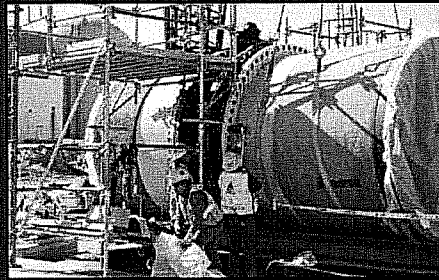
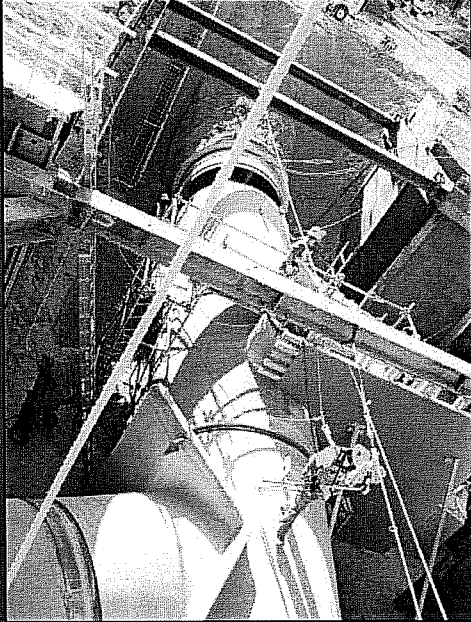
2010-2013 Business Plan



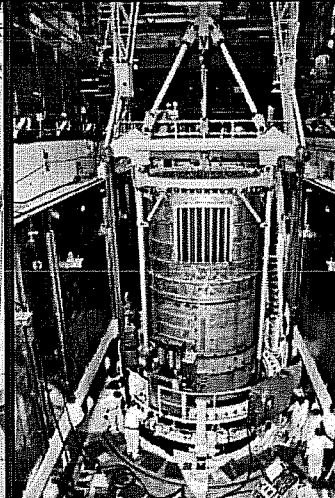
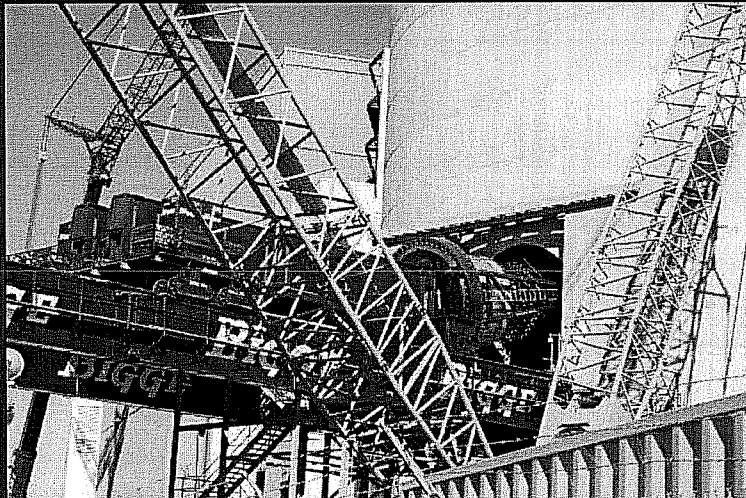
Outage Performance Improvement Fuel Handling Machine



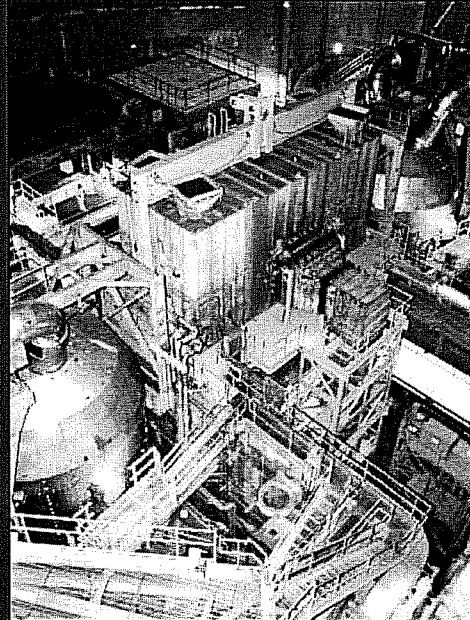
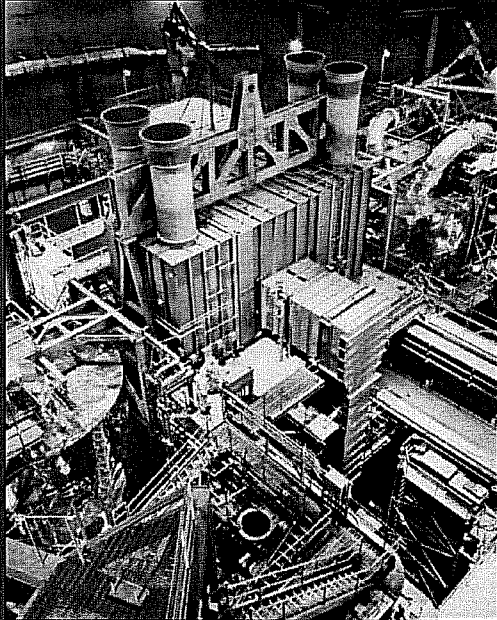
Outage Performance Improvement *Circ Water Cut-In*



Outage Performance Improvement *New Reactor Vessel Head*



Outage Performance Improvement *Reactor Vessel Head – Before and After*



So, where are we going from here?

- Top half in all areas and top quartile in most areas
- Select areas for top decile
- Areas for industry leadership:
 - ◆ SAFETY
 - ◆ Knowledge & Training
 - ◆ Craftsmanship (Field Focus)

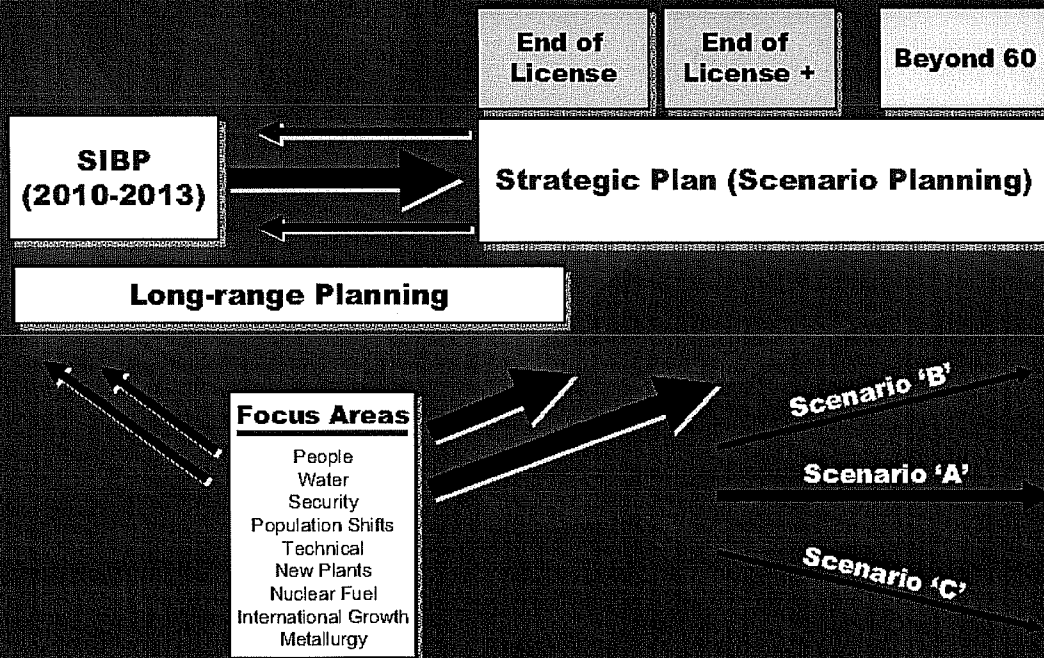


Randy Edington

Executive Vice President and
Chief Nuclear Officer



Business Plan / Strategic Plans



License Renewal

