



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-4005

April 11, 2007

Randall K. Edington, Senior Vice
President, Nuclear
Arizona Public Service Company
P.O. Box 52034
Phoenix, AZ 85072-2034

SUBJECT: MEETING SUMMARY FOR END-OF-CYCLE PERFORMANCE ASSESSMENT

Dear Mr. Edington:

This refers to the end-of-cycle performance assessment meeting conducted at the Estrella Mountain Community College, Avondale, Arizona, on April 3, 2007. Topics discussed during the meeting included the Reactor Oversight Process and the safety performance at Palo Verde Nuclear Generating Station. The meeting attendance list and a copy of the slides presented during the meeting 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 made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document 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 this matter, we will be pleased to discuss them with you.

Sincerely,

Rebecca Nease, Chief
Project Branch D
Division of Reactor Projects

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

Enclosures:

1. Meeting Attendance List
2. NRC Presentation
3. Palo Verde Nuclear Generating Station Presentation

cc w/enclosures:

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Federal Emergency Management Agency
Region IX
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The Honorable Marie Lopez-Rogers
Mayor of Avondale
11465 W. Civic Center Drive, Suite 280
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The Honorable Bobby Bryant
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Buckeye, AZ 85326

The Honorable Fred Waterman
Mayor of El Mirage
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The Honorable Elaine Scruggs
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The Honorable Tom Shoaf
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The Honorable John Keegan
Mayor of Peoria
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The Honorable Phil Gordon
Mayor of Phoenix
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The Honorable Joan Shafer
Mayor of Surprise
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The Honorable Adolfo Gamez
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The Honorable Michael LeVault
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1701 North Congress Avenue
Austin, TX 78701-3326

Arizona Public Service Company

-5-

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Environmental Program Manager
City of Phoenix
Office of Environmental Programs
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Phoenix, AZ 85003

Matthew Benac
Assistant Vice President
Nuclear & Generation Services
El Paso Electric Company
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Phoenix, AZ 85004

END OF CYCLE PUBLIC MEETING ATTENDANCE

LICENSEE/FACILITY	Palo Verde Nuclear Generating Station
DATE/TIME	April 3, 2007 6:30 p.m.
CONFERENCE LOCATION	Estrella Mountain Community College North Community Room, 2 nd Floor of Estrella Hall Avondale, AZ 85323

NAME (PLEASE PRINT)	ORGANIZATION	TITLE
Bill Maier	NRC	Reg. State Liaison
Mark McGhee	APS	UI DEPT LDR
Peter Carlone	MPR ASSOCIATES	ENGINEER
GARY PIERCE	ALL	Commissioner
Eric Shouder	EL PASO ELECTRIC	REPRESENTATIVE
Raubin Randels	APS	Engineering Mgr
Joe Costanzo	APJ	NLO
Kenneth B. Woods	APS	Fire Team Leader
Alphonso Tyson	APS	HR Consultant
James Cavanaugh	City of Gdpr	MAYOR
Linda Cavanaugh	Gardner	
Betty Dayko	APS	Comm Consultant
Scott Burns	APS	ENGIC Dept LDR
Doug Coxon	APS	OPS Dept Ldr

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NAME (PLEASE PRINT)	ORGANIZATION	TITLE
Amy Turner	PV	NA
Rose Major	PV	PT Director Business
Harry Bielings	PV	MGR. Safety
STEVE OLGA	ACC	ASSISTANT DIR. - UTILITIES
ROB LOTT	PV	WRF PLANT MGR
MIKE RENFROE	PV	EQUIPMENT REL MGR
Sara Swope		
V. Anne Swope	NA	
Pam + Rex Miller	P.V. Cap member	Community Member (4 generation)
EDWARD O'NEILL	P.V.	DEPT. LEADER E-PLAN
TEJ CHADH	P.V.	G.M. ES&S
Mark Gallegos	ADPM	REP Manager
Jim Taylor	P.V.	Dept. Ldr.
Renee Taylor	Public	—

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NAME (PLEASE PRINT)	ORGANIZATION	TITLE
JEFF HATCH-MILLER	Arizona Corporation Commissioner	Commissioner
Scott Bauer	APS	Reg Affairs
John Rouse	-	-
DAVID		
Howard Ridehour	APS	Maint. Director PV
JOSEPH TOTTH	APS	MAINT SERVICES D/L
Daniel Marks	APS	Regulatory Affairs S/L
Peter Carpenter	APS	unit 2 Department leader
Anthony Godwin	AZ Rad Reg Agcy	Director
Scott Zerkel	APS	Shift Mgr.
Susan Bement		
BRANDON BEMENT		
DEBORAH MOYER	MCSO	DEPUTY SHERIFF
KINDA RAMSEY	PV	Dept. Hd. Supply Chain

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NAME (PLEASE PRINT)	ORGANIZATION	TITLE
Michael Muhs	PVNGS WORK MGMT	OUTAGE MGR
GEORGE ANDREWS	PVNGS PERFORM. IMPROVEMENT	DIRECTOR
KEVIN GRAHAM	PVNGS, NFM	NFS DEPT LEADER
CHUCK ZELL	PVNGS, WMS	WM MANAGER
Thomas N. Weber	PVNGS	Acting Dept Leader
John Hesser	APS / PVNGS	VP ENGINEERING
Gary Shaker	APS / PVNGS	Project Mgr.
Michael Sora	APS	DIR of PSOS
Michael Sontag	PVNGS	Dept Leader
Don Wheeler	PVNGS	Section Ldr.
Paul Crowley	PVNGS	Direct, Life Cycle Mgmt
Bob Bandera	PVNGS	Dept Leader, NFM
Mike Winsor	PVNGS	Dir Strategic Proj.
HENRY DAY	PVNGS	ENV. DEPT. LEADER

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NAME (PLEASE PRINT)	ORGANIZATION	TITLE
WILLIAM CHAPIN	APS / PV	PROJECT DIR
PEG LUCKY	APS / PV	DL - PIT
DAVID HUTTIE	APS / PV	DIR. ESD
MIKE POWELL	APS / PV	DIR. NFM
DAVID FAN	APS / PV	ENGR DL
MC KARBASSIAN	APS / PV	DIR. ENGR
KEVIN SWEENEY	APS / PV	DEPARTMENT LEADER
RICH SCHALLER	APS / PV	Dept Ldr - Life Cycle Mgt
MIKE HULY	APS	counsel
TRELA JACOBSON	APS	Performance Advocate
DALE LEECH	APS / PV	Dept. Leader - CAP
GAYLE SCETTAVONE	APS / PV	HR Dept Ldr
MICHAEL MARBLEY	NRC / NRA	Sr. Project Manager
BRYAN THIELE	APS / PV	Site Manager

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NAME (PLEASE PRINT)	ORGANIZATION	TITLE
Gregory Werner	NRC	SPE
Sared Nadel	NRC	Reactor Inspector
Rob Henry	SRP	Site Rep
Randy Edington	SI VP/CNO	PVNGS
Judy Melody	DL-PV	Dept Ldr
MICHAEL PERITO	PAVO VERDE	PLANT MGR
JOHN TAYLOR	PNM	HUC PROJECT MGR
Silvestro Garcia	Self. ^{PVNGS} employee	Advisor - ^{PVNGS} ^{mate} Programs.
Janet Burns	APS/PVNGS	Mgr
Dwayne Barnes	APS/NAT	Director
Bill Spruill	APS	Scheduler
JACK DAVIS	APS	CEO
Bill Post	APS	MANAGER
Mike Collogh	APS	Director

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NAME (PLEASE PRINT)	ORGANIZATION	TITLE
FRANK GARRETT	APS	TRM A MUT
John Scott	APS	Dept. Leader
Ed Sterling	APS	Dept. Leader
Mark Fallon	APS	Comm. Consultant
JOHN GAFFNEY	APS	DIRECTOR
Brian Ramsey	APS	Dept. Leader
JOE RUTOLO	APS	Section Leader
Michael Conine	APS	Shift Manager
Larry Johnson	APS	Dept. Leader
Felix Rieker	APS	Director of Training
Jeanne Copsey	APS	Employee Concerns
Jim McDardel	APS	Communications
PAT SCHOTTER	APS	WORK MANAGEMENT
Rebecca Nease	NRE	Branch Chief

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NAME (PLEASE PRINT)	ORGANIZATION	TITLE
Tom Johnson	APS-	CONSULTANT
PETE BRUNYANT	APS	DIR, OPS
Maugel + Hank Nelson	APS	18 / Dept Leader
MARK HUBET	APS	ENGR
ART SWANP	AVONDALE FIRE	DIR. CIVIL EN.

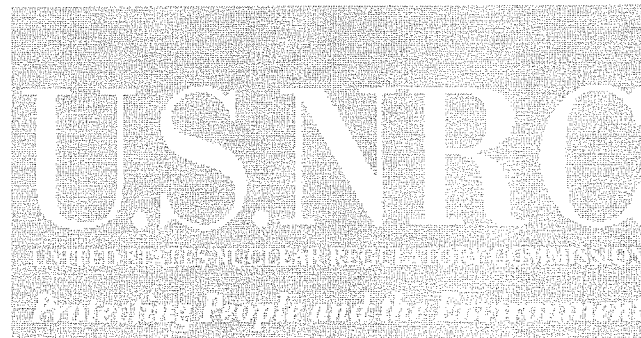
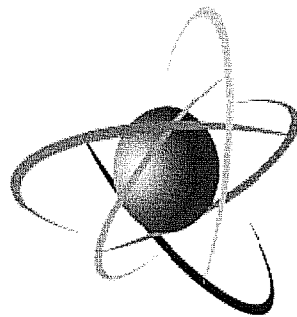
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NAME (PLEASE PRINT)	ORGANIZATION	TITLE
Del Elkerton	Regulatory Affairs	Consultant
John Wood	OPSTRAINING	Dept Ldr
Pat Coleman	NRC	SECRETARY

Palo Verde Nuclear Generating Station Annual Assessment Meeting

Reactor Oversight Program - CY 2006



Nuclear Regulatory Commission - Region IV

April 3, 2007

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 will be given the opportunity to respond

Agenda

- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- NRC Oversight – Going Forward
- Licensee Response and Remarks
- NRC Closing Remarks
- Question and Answer Session

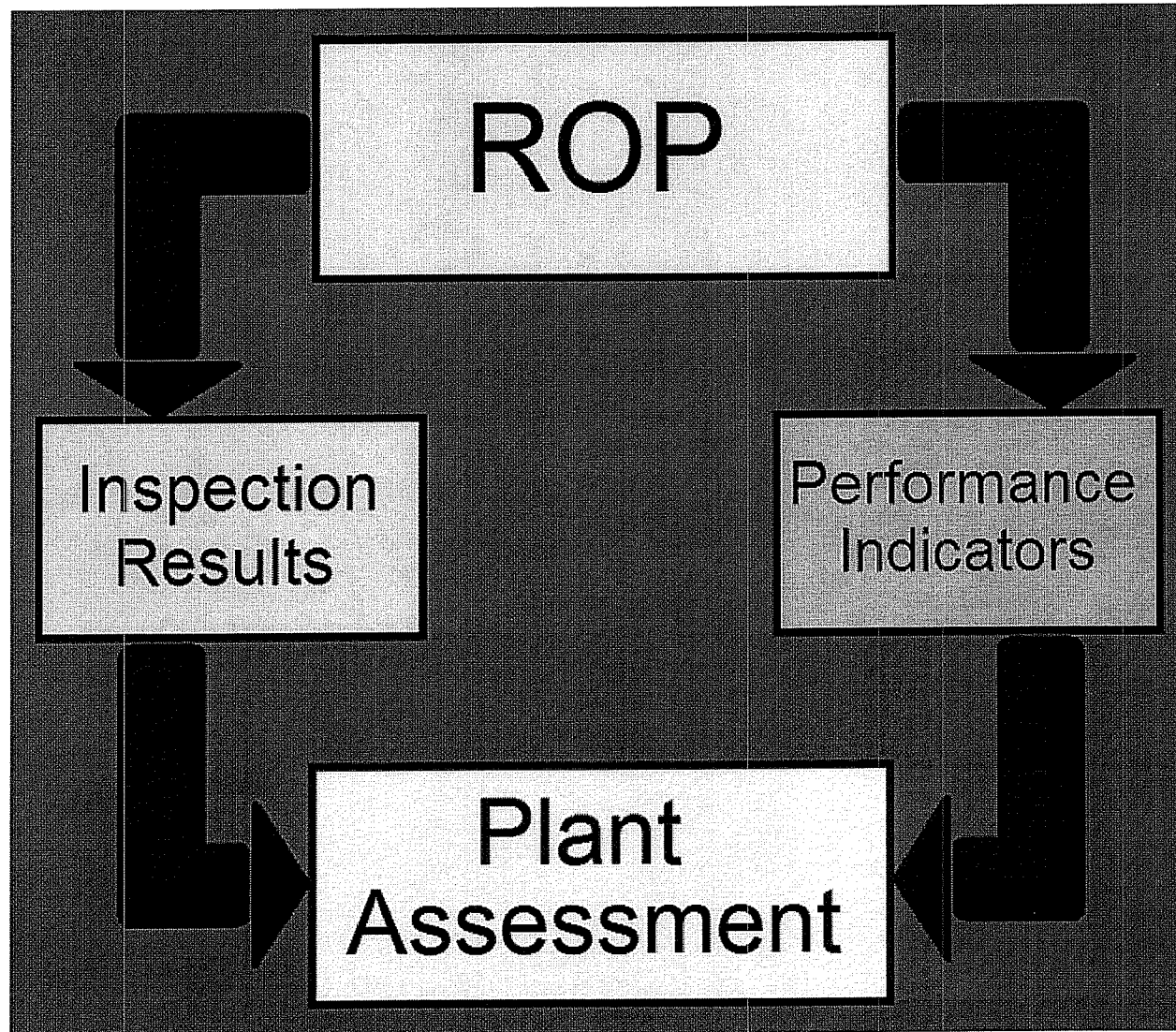
NRC Representatives

- William Kane, Deputy Executive Director for Reactor and Preparedness Programs
 - (301) 415-7000
- Bruce Mallett, Regional Administrator, Region IV
 - (817) 860-8100
- Tony Vegel, Deputy Director, Division Reactor Projects
 - (817) 860-8291
- John Lubinski, Deputy Director, Division of Operating Reactor Licensing, Nuclear Reactor Regulation
 - (301) 415-1184
- Rebecca Nease, Branch Chief
 - (817) 860-8250
- Greg Warnick, Senior Resident Inspector
 - (623) 393-3736
- Jim Melfi, Resident Inspector
 - (623) 393-3737
- Gregory Werner, Senior Project Engineer
 - (817) 860-8156
- Victor Dricks, Public Affairs Officer
 - (817) 860-8128
- Mike Markley, Senior Project Manager, Nuclear Reactor Regulation
 - (301) 415-5723

NRC Performance Goals

- Safety: Ensure protection of the public health and safety and the environment
- Security: Ensure the secure use and management of radioactive materials
- Openness: Ensure openness in our regulatory process
- Effectiveness: Ensure that NRC actions are effective, efficient, realistic, and timely
- Management: Ensure excellence in agency management to carry out the NRC's strategic objective

Reactor Oversight Process



Examples of Routine Inspections

- Equipment Alignment ~80 hrs/yr
- Triennial Fire Protection ~200 hrs/3 yrs
- Operator Response ~125 hrs/yr
- Emergency Preparedness ~80 hrs/yr
- Radiation Release Controls ~110 hrs/2 yrs
- Worker Radiation Protection ~90 hrs/yr
- Corrective Action Program ~250 hrs/2 yrs
- Corrective Action Case Reviews ~60 hrs/yr
- Total Inspection Hours ~2300 hrs/yr

Significance Threshold

Performance Indicators

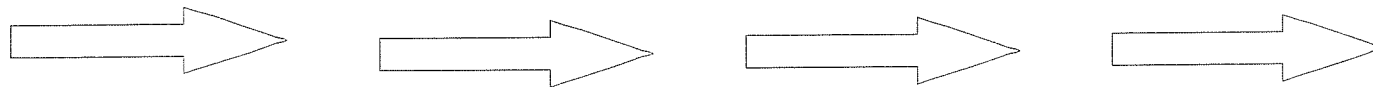
- Green:** Only Baseline Inspection
- White:** May increase NRC oversight
- Yellow:** Requires more NRC oversight
- Red:** Requires more NRC oversight

Inspection Findings

- Green:** Very Low safety issue
- White:** Low to moderate safety issue
- Yellow:** Substantial safety issue
- Red:** High safety issue

Action Matrix Concept

Licensee Response I	Regulatory Response II	Degraded Cornerstone III	Multiple/Rep. Degraded Cornerstone IV	Unacceptable Performance V
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Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions

National Summary of Plant Performance

4th Quarter 2006 Action Matrix Summary

Licensee Response (Column I)	73
Regulatory Response (Column II)	21
Degraded Cornerstone (Column III)	5
Multiple/Repetitive Degraded Cornerstone (Column IV)	4
<u>Unacceptable (Column V)</u>	<u>0</u>
Total	103

Palo Verde

2006 Inspection Activities

- Baseline Inspection Program
- Followup Supplemental Inspection completed in August 2006
- Two Special Inspections
- Units 2 and 3 refueling outages
- Unit 1 shutdown cooling isolation Valve SI-651 modification
- Tritium in sub-surface soil

Palo Verde

Assessment Results

- Palo Verde was operated in a manner that preserved public health and safety.
- The 2004 Yellow finding remained open because corrective actions were not complete.
- In 2006, the NRC identified a White finding on Unit 3.
- Two substantive crosscutting issues remained open.
- These two findings result in increased NRC oversight.

Substantive Cross-Cutting Issues Remained Open in 2006

- **Problem Identification and Resolution Cross-Cutting Issue**
 - 12 findings with cross-cutting aspects
- **Human Performance Cross-Cutting Issue**
 - 26 findings with cross-cutting aspects

Palo Verde

Planned 2007 Activities

- The NRC plans to perform baseline inspections as well as Supplemental Inspection 95003 to assess the licensee's corrective actions to address the decline in performance.
- The NRC will increase oversight for a plant in Column IV.

Path Forward

- Key Interactions with Licensee
 - Meeting to discuss path forward (April or May 2007)
 - Issue Confirmatory Action Letter (CAL) to document licensee commitments
 - Periodic meetings to discuss performance and status of improvement initiatives

Path Forward (cont'd)

- Key Inspections
 - Perform 95003 inspection
 - Focus baseline inspections on daily plant operation and the two substantive crosscutting issues

Licensee Response and Remarks

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

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

Reference Sources

- Reactor Oversight Process

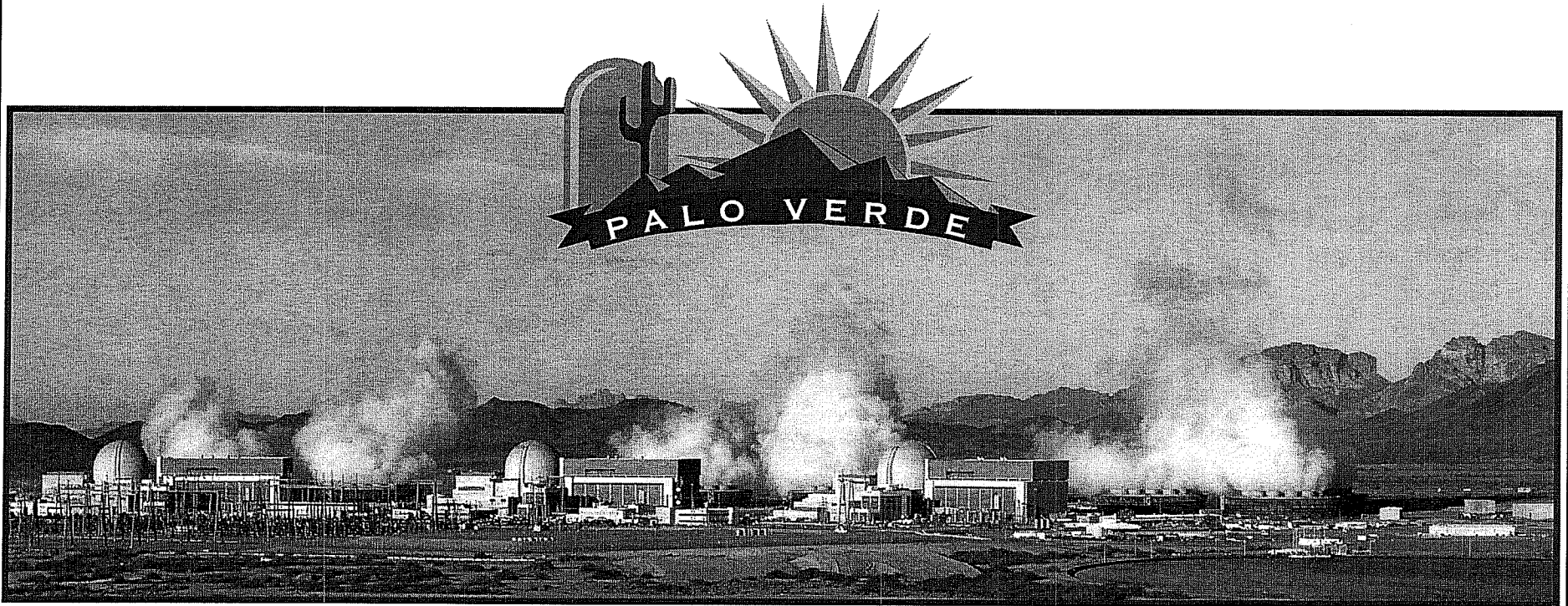
- ▶ <http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html>

- Public Electronic Reading Room

- ▶ <http://www.nrc.gov/reading-rm.html>

- Public Document Room

- ▶ 1-800-397-4209 (Toll Free)



NRC Annual Assessment Meeting
Estrella Community College
Arizona Public Service Company

April 3, 2007

Opening Remarks

Randall K. Edington

**Sr. Vice President
and Chief Nuclear Officer**

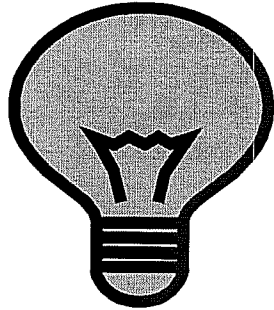


Cross-cutting Issues

Robert S. Bement

**Vice President
Nuclear Operations**





F O I C U S

Fundamentals

- Issue fundamental booklet with HU tools
- Develop advocates for HU

Observations Reinforced

- Implement observation program
- 1R13 outage HIT team
- Manager-Of-The-Day observations

Change Behaviors

- HU training with simulator
- Dept hands on activities
- Instructor training for reinforcement of fundamentals

Use HU Tools

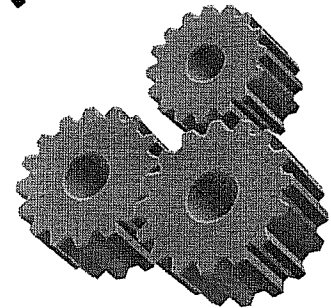
- Implementation of graded approach to HU tools

Summarize & Trending

- Implement PI roll-up & performance analysis
- Analysis of clock reset data

On

Human Performance



Problem Identification & Resolution Corrective Action Program

- ◆ **Align the organization**
- ◆ **Evaluation timeliness**
- ◆ **Root cause and apparent cause evaluations**
- ◆ **Adequacy of corrective actions**
- ◆ **Corrective action implementation timeliness**
- ◆ **Metric review**



Performance Improvement Overview

Dwight C. Mims

**Vice President Regulatory Affairs
and Performance Improvement**

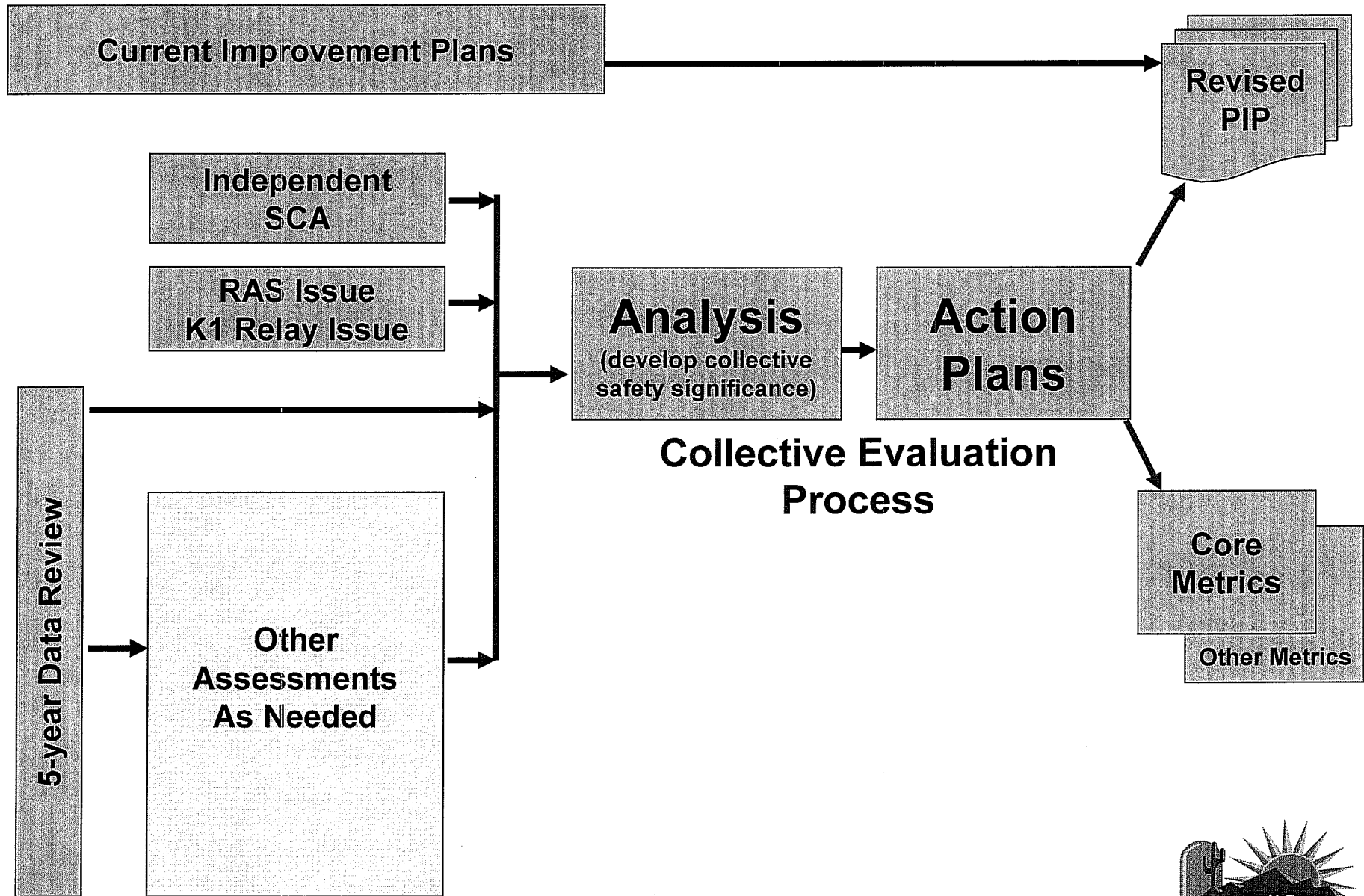


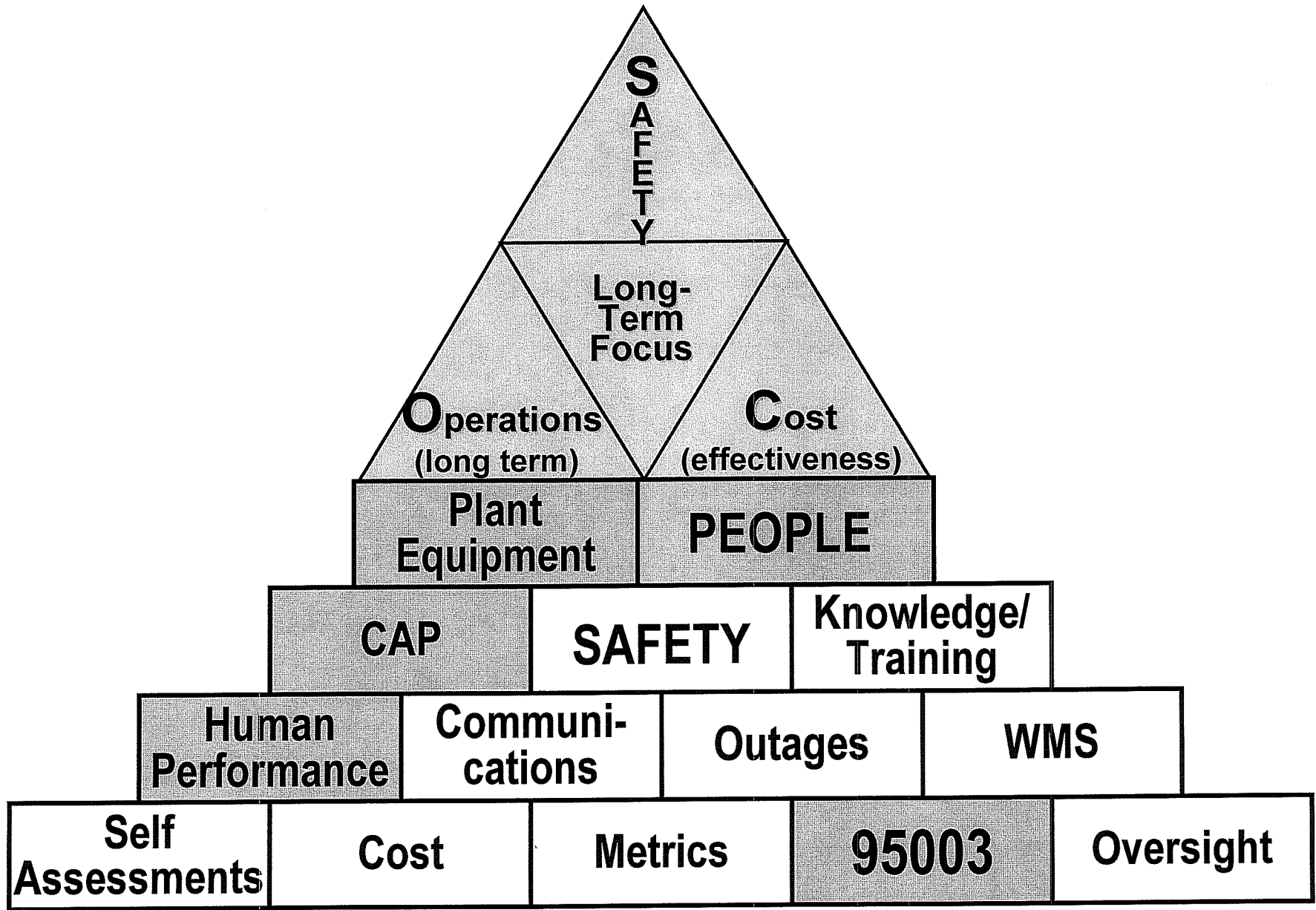
Performance Improvement Overview

- ◆ **Assessment – comprehensive and self-critical**
- ◆ **Improvement Plan – three-year horizon**
- ◆ **External participants – objectivity and different perspectives**



Performance Improvement Overview





Closing Remarks

Randall K. Edington

**Sr. Vice President
and Chief Nuclear Officer**

