NRC FORM 665S (4-2002) U.S. NUCLEAR REGULATORY COMMISSION

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Davis Besse 0350 external meeting summary minutes 06-12-02 – attachment 2

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Special Instructions

Pls put file under Power Reactor Correspondence
Region III
Operating Reactors
Davis Besse 1

Pls return to me - Thank you

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JUL 23

U. S. NRC DAVIS-BESSE RESTART OVERSIGHT PANEL

PUBLIC MEETING

June 12, 2002

INTRODUCTIONS

FIRST ENERGY PRESENTATION OF DAVIS-BESSE RETURN TO SERVICE PLAN

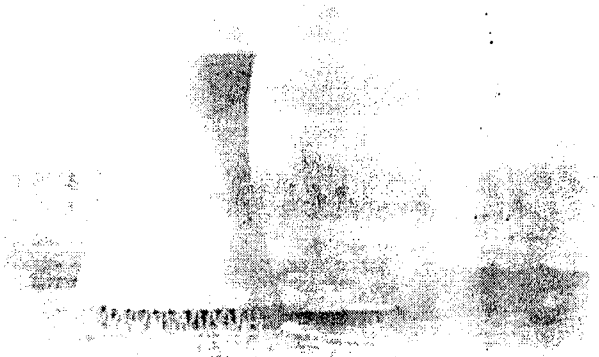
NRC STAFF QUESTIONS

ADJOURN NRC MEETING WITH FIRST ENERGY

NRC RESPONSE TO PUBLIC QUESTIONS

ADJOURN MEETING

Davis-Besse
Nuclear Power Station, Unit 1



Return To Service Plan

June 12, 2002

FENOC

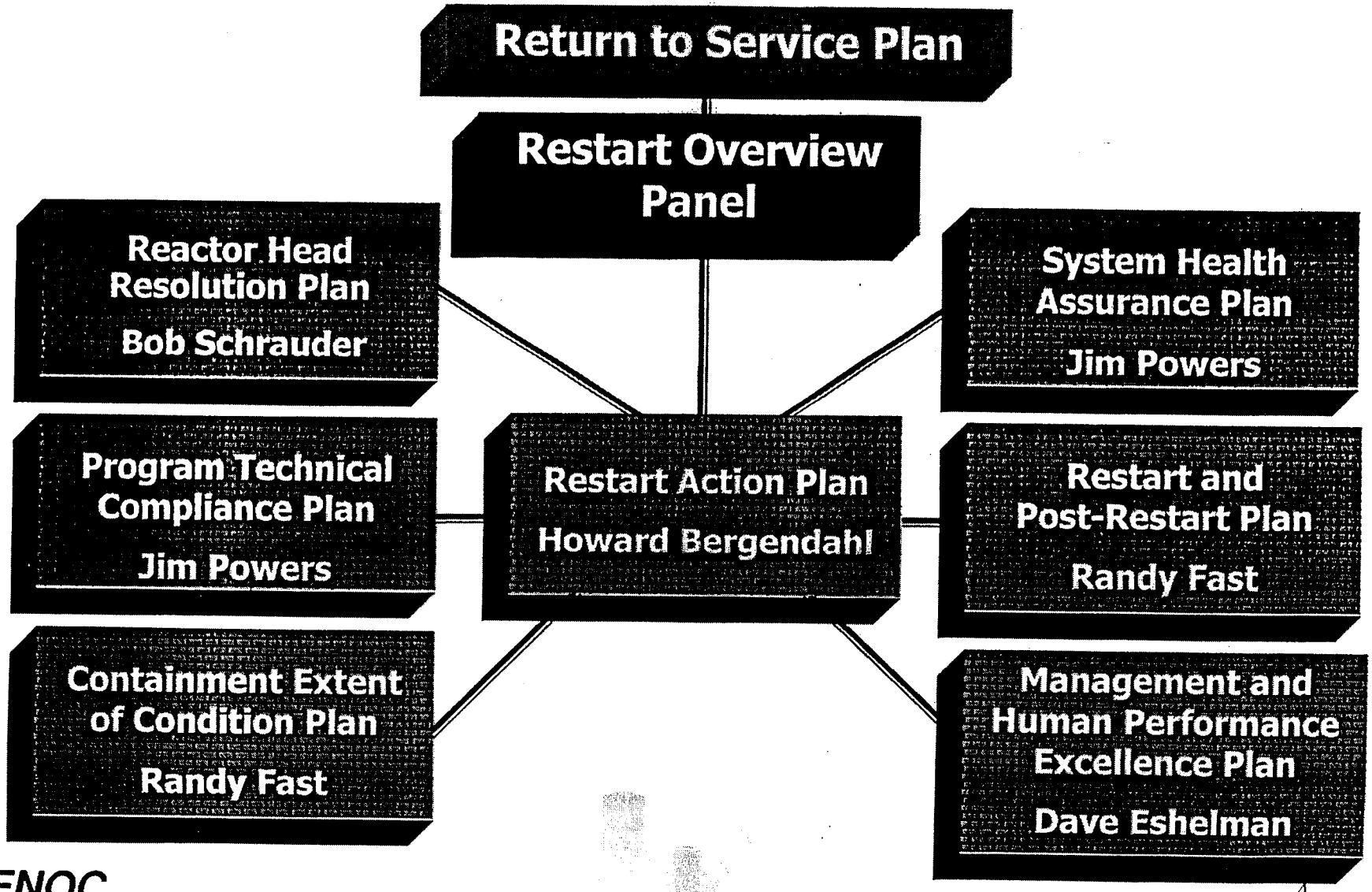
Introduction

Lew Myers
FENOC Chief Operating Officer

Desired Outcome

- *Demonstrate a comprehensive recovery plan*
- *Demonstrate that management will take the strong actions needed to:*
  - *Resolve technical issues*
  - *Operate the plant both safely and reliably*
  - *Improve employee confidence and trust*
  - *Regain regulatory confidence*
- *Receive feedback on our actions*

Basic Building Blocks



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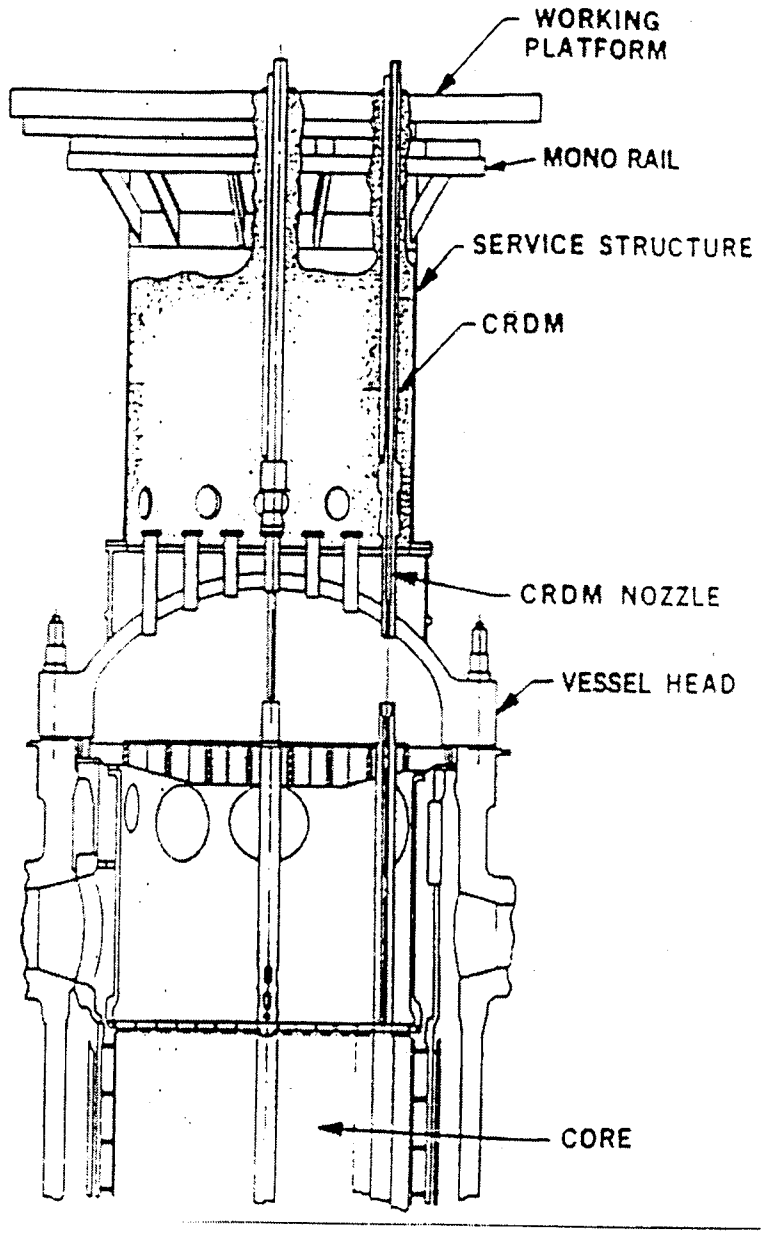
Reactor Head Resolution Plan

Bob Schrauder

Reactor Head Resolution Oversight

Reactor Head Resolution Plan



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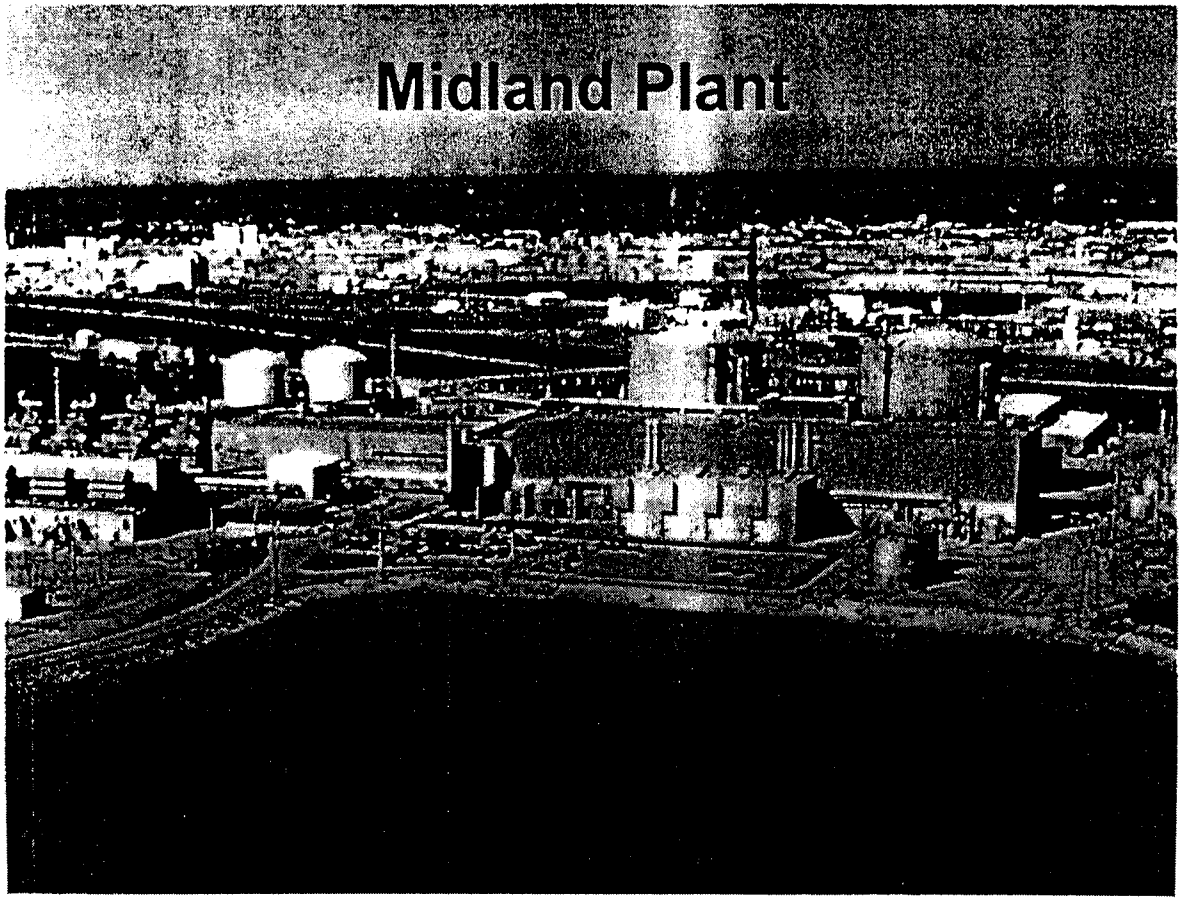
Reactor Head Resolution Plan



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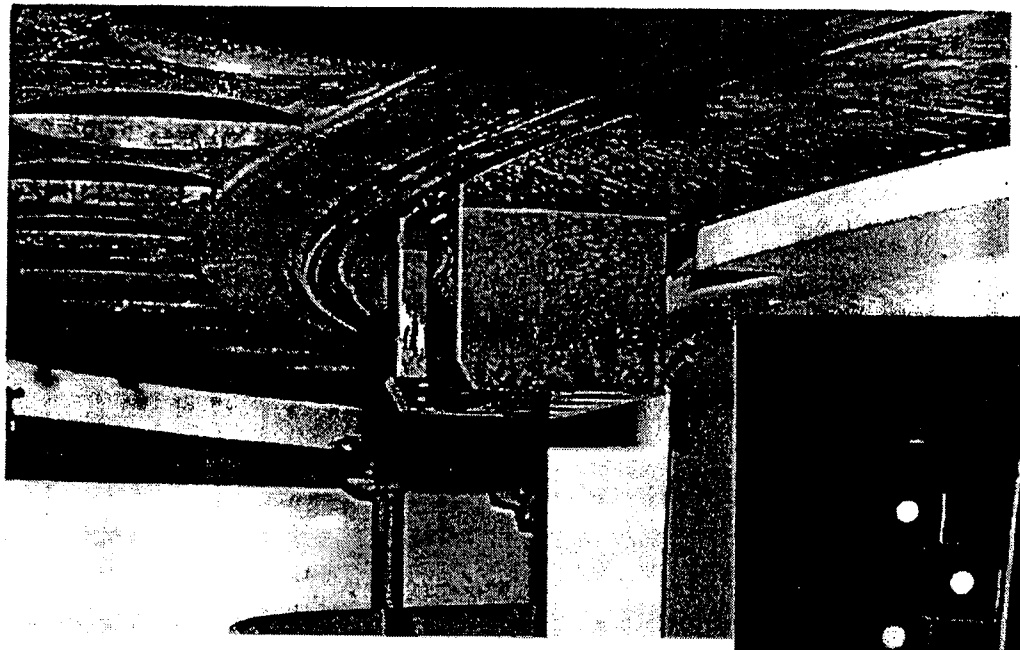
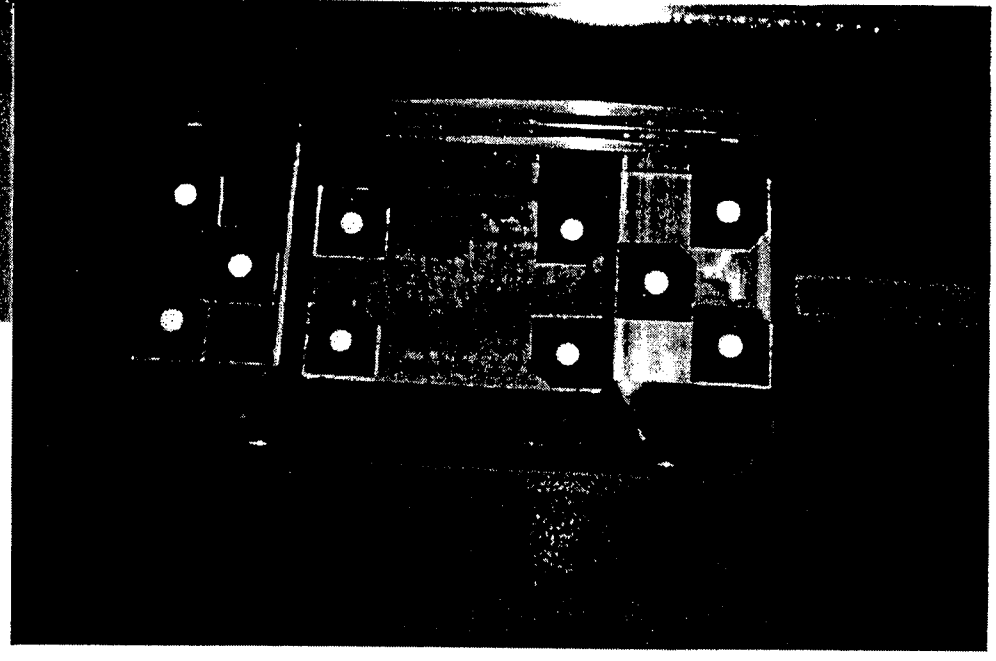
Reactor Head Resolution Plan

- *Replace existing reactor vessel head with the Midland head:*
  - ***Unused head***
  - ***Designed to same requirements as Davis-Besse***
  - ***Built to same design codes with same materials***
  - ***Temporary Containment opening is necessary***
  - ***Completion expected 4th quarter 2002***

Reactor Head Resolution Plan



The
Keyway



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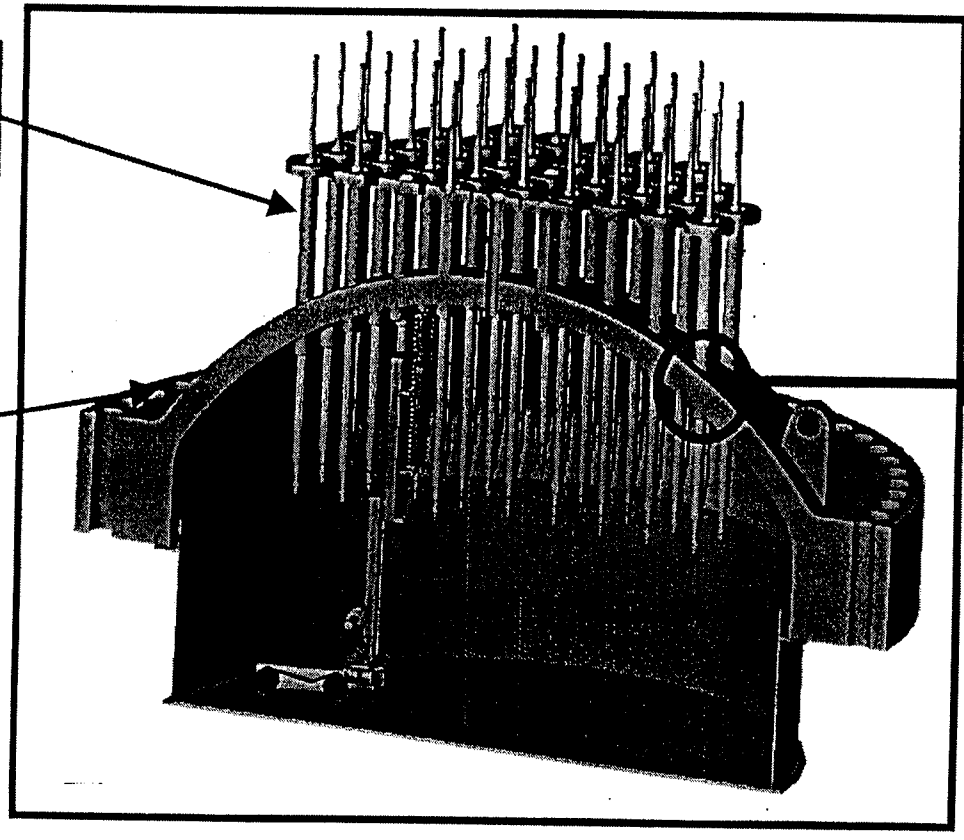
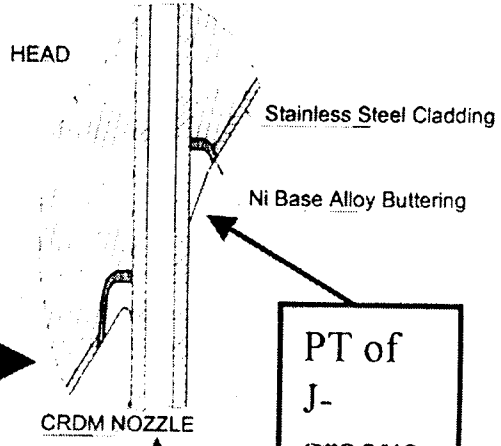
Reactor Head Resolution Plan

RT and PT of CRD Nozzle to Flange Weld

RT, UT, and MT of Flange to Dome Weld





PT of J-groove Weld

UT and ET of CRD Nozzle

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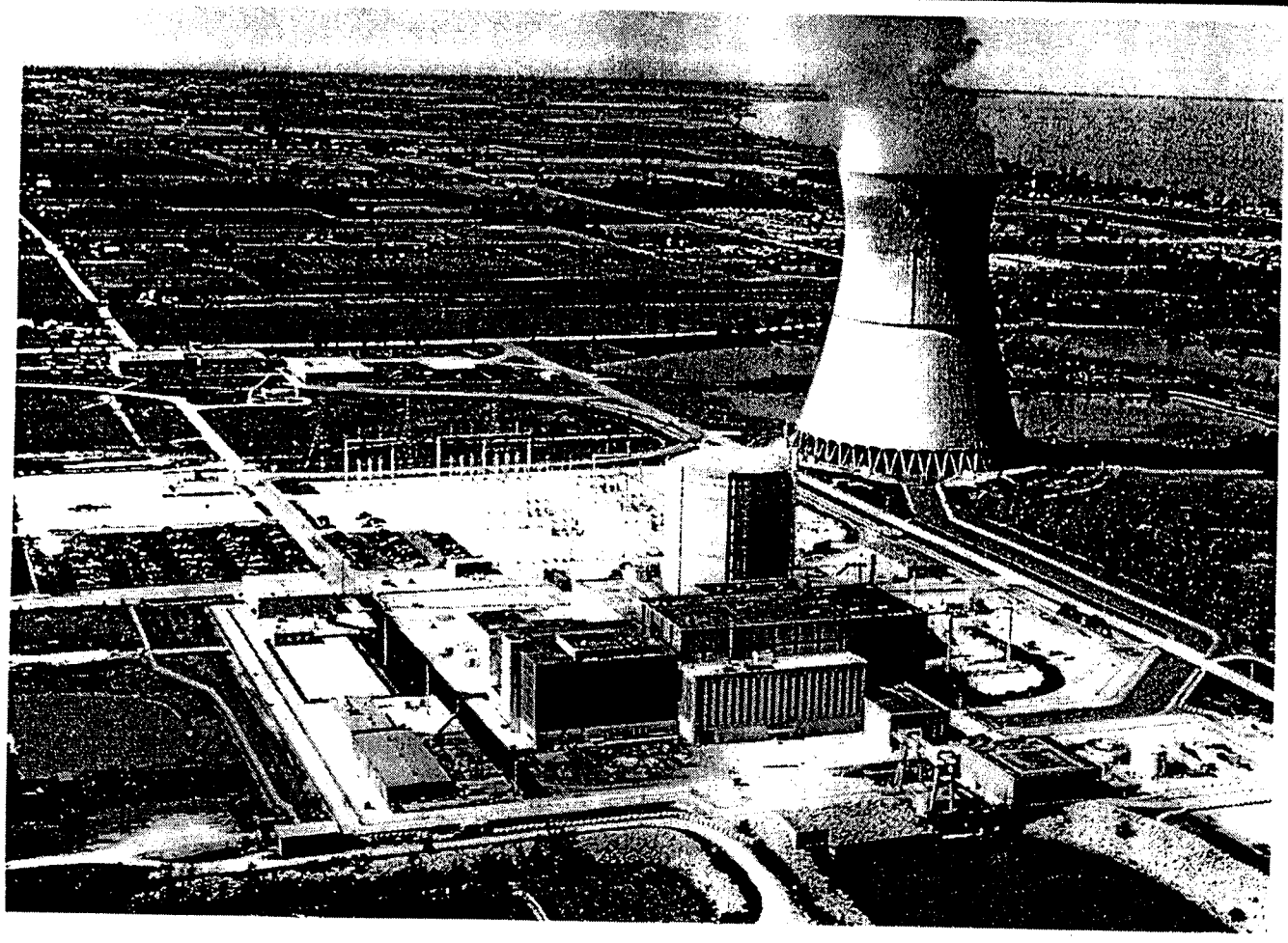
Containment Building
Extent of Condition Plan

Randy Fast

Plant Manager

Containment Building Extent of Condition Plan



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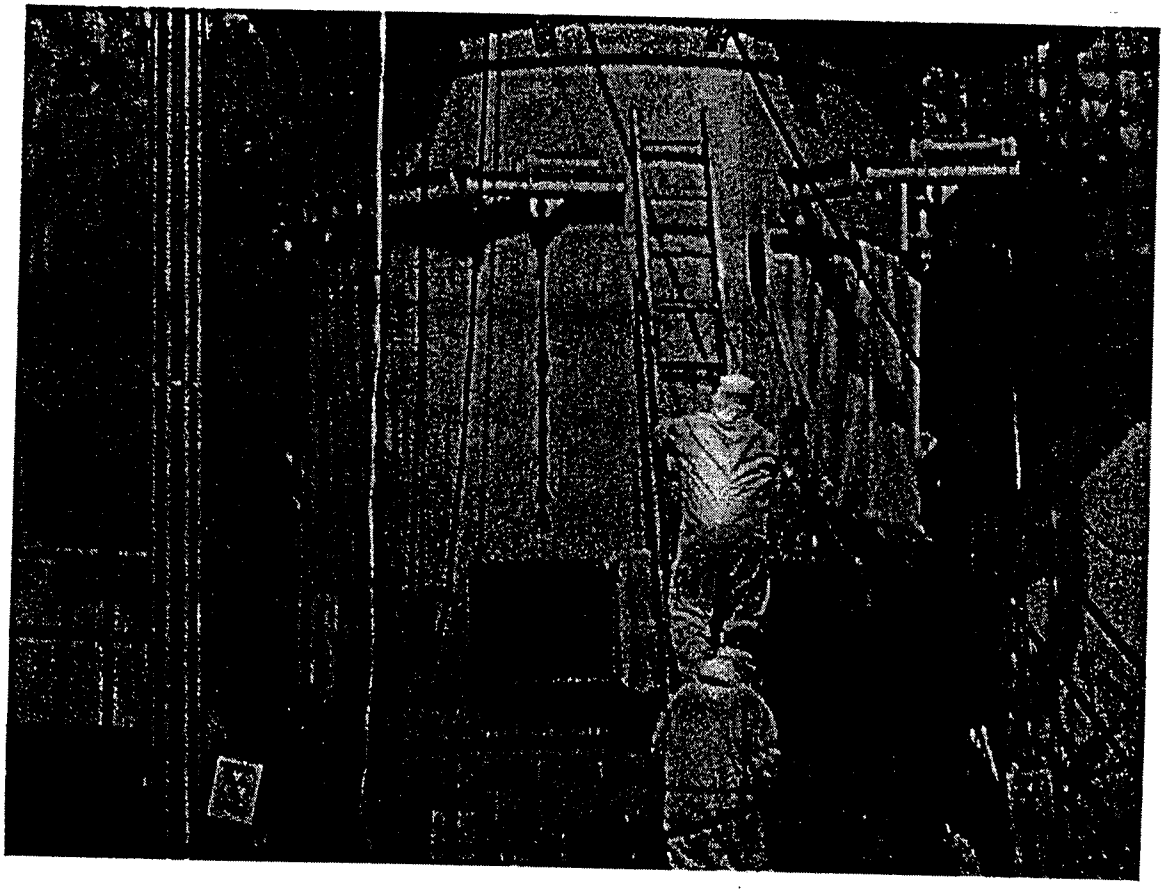
Containment Building Extent of Condition Plan

- *Field walkdowns performed by qualified (VT-2) personnel to identify:*
  - *boric acid degradation*
  - *other material conditions*
- *Scope includes:*
  - *Reactor Coolant System*
  - *Safety Related Structures, Systems and Components inside containment*

Containment Building Extent of Condition Plan



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Containment Building Extent of Condition Plan

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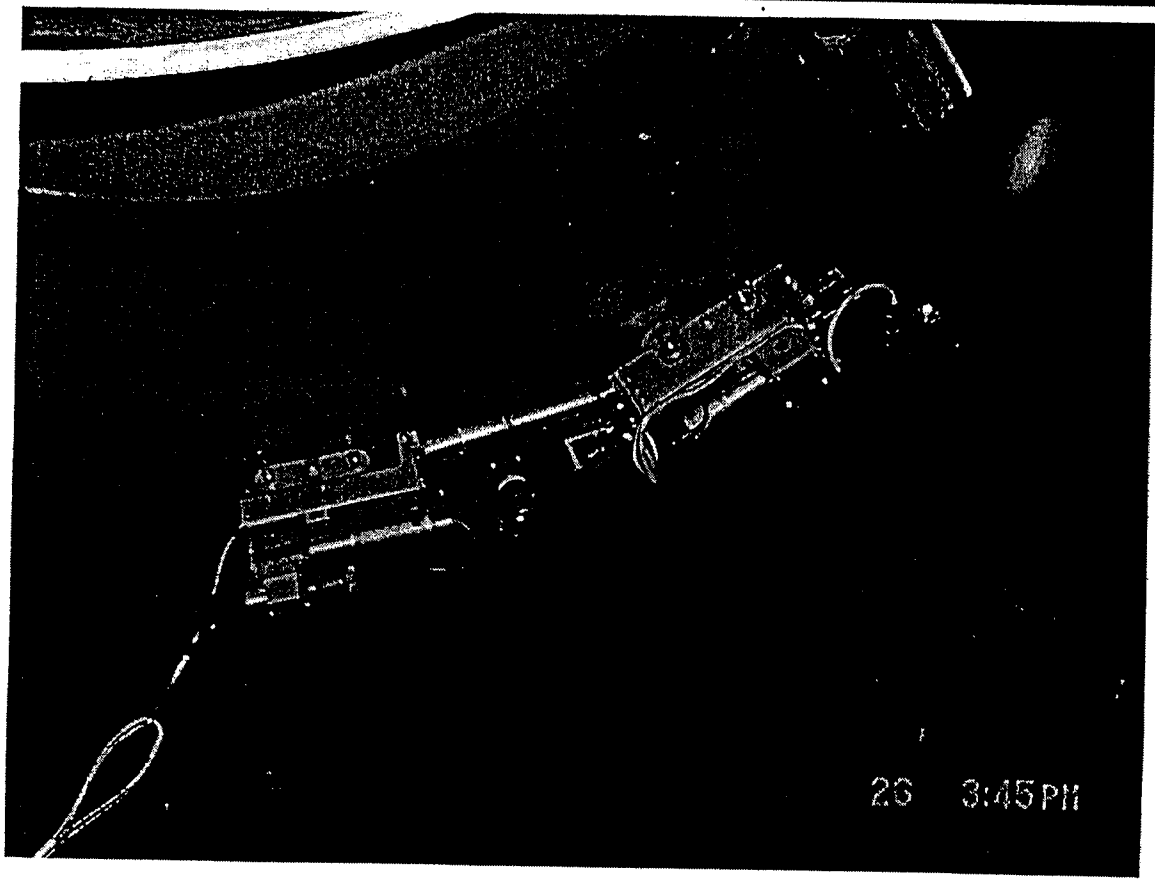
Containment Building Extent of Condition Plan



Magnetic Crawler

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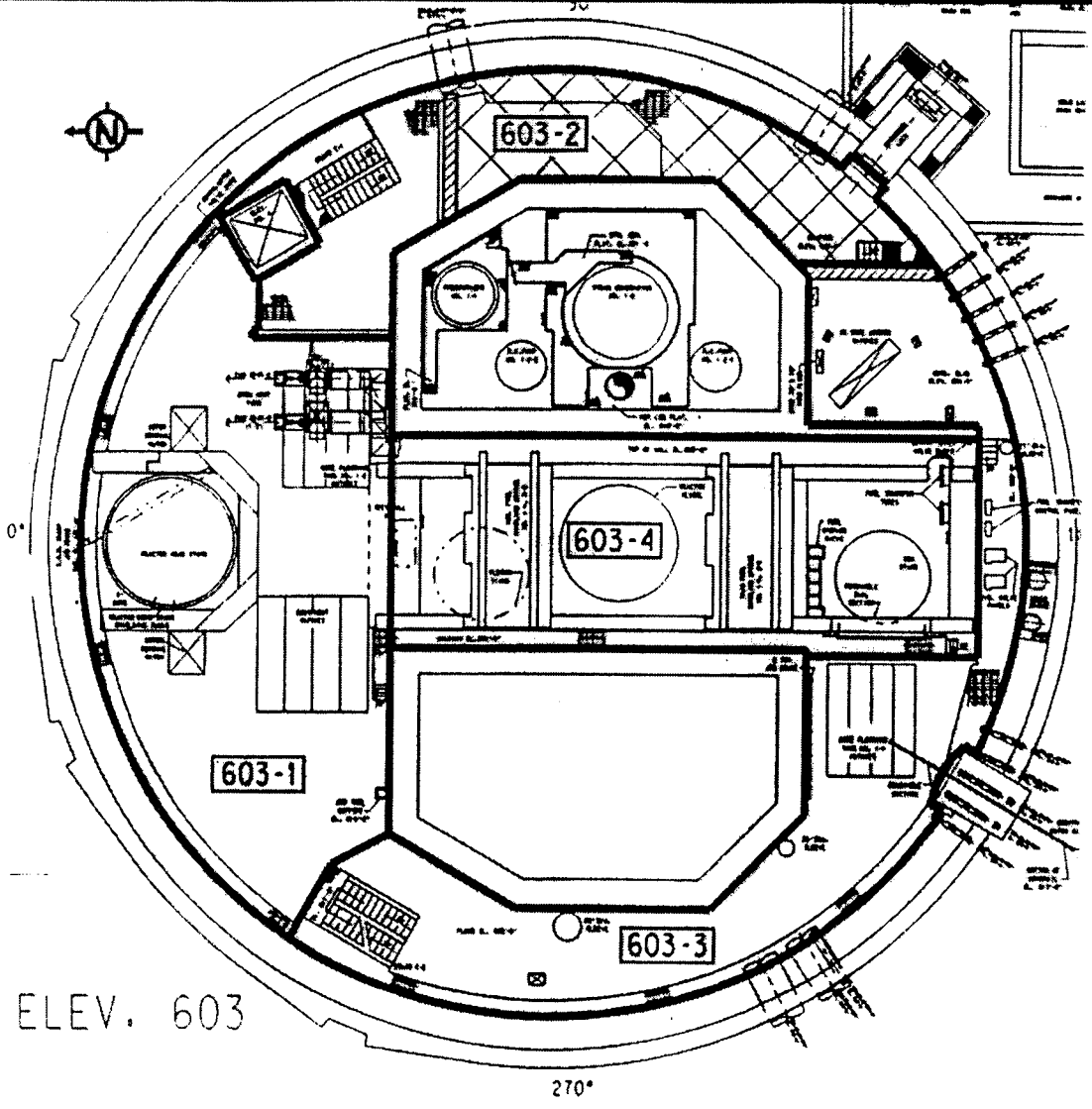
Containment Building
Extent of Condition Plan



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Program Technical Compliance Plan

Jim Powers

Director - Engineering

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Program Technical Compliance Plan

- ***Systematic review of Plant Programs for ownership and industry standards of excellence:***
  - ***60 major programs to be evaluated prior to restart***
  - ***5 programs involved in head degradation to have detailed review***
    (Boric Acid Corrosion Control, Inservice Inspection, Corrective Action, Operating Experience, Modification)

Program Technical Compliance Plan

- *Identify program documents and commitments*
- *Review implementing procedures*
- *Identify key interfaces*
- *Review known problems and resolutions*
- *Review industry requirements and industry experience*
- *Provide actions for program changes and upgrades*

System Health Assurance Plan

Jim Powers

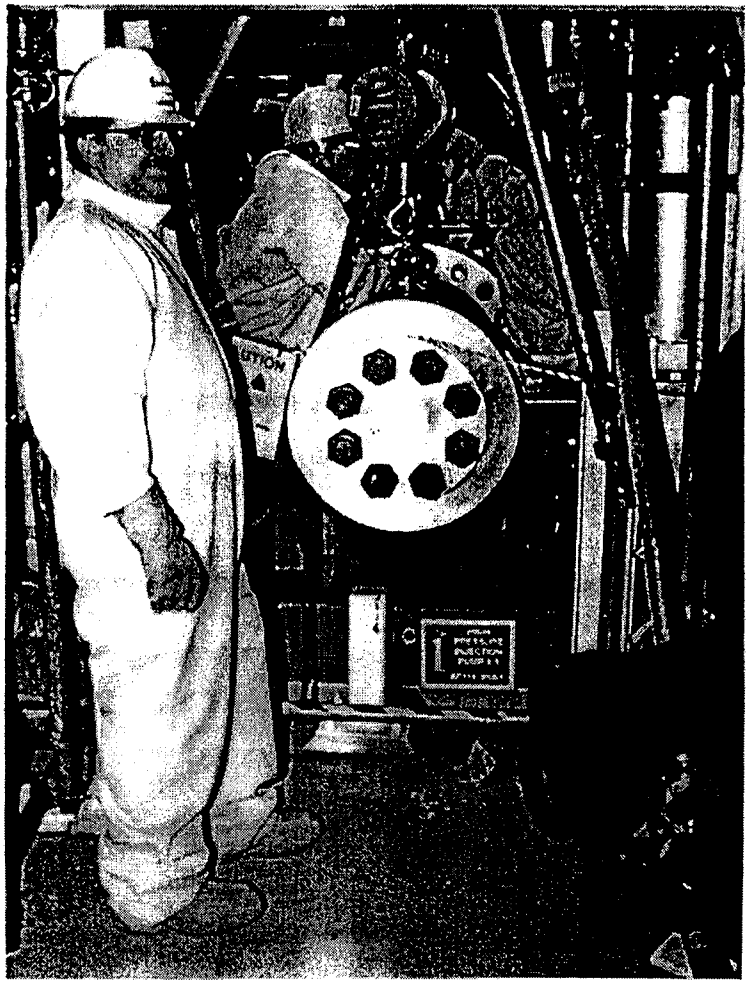
Director - Engineering

System Health Assurance Plan

- *Phase I - Operational Readiness Review of safety and reliability systems*
- *Phase II - Comprehensive Review of 30 systems based on risk and performance*
- *Phase III - Latent Issues Review of 3 systems (Reactor Coolant, Emergency Diesel Generator, Auxiliary Feedwater)*

System Health Assurance Plan

High Pressure Injection Pump Replacement Project



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System Health Assurance Plan

- *Phase II - Comprehensive Review*
  - Look back 7 - 12 years
    - Modifications
    - Condition Reports
    - Industry and operating experience reports
    - Maintenance history
  - Includes system walkdowns

System Health Assurance Plan

- *Phase III - Latent Issues Review*
  - *To ensure selected systems are in compliance with design basis documents*
  - *Identify design and functional requirements and confirm required functions are met*
  - *Provide actions for system and documentation improvements*
  - *Independently review results*
  - *Completion prior to restart*

Restart and Post-Restart Test Plan

Randy Fast

Plant Manager

Restart and Post-Restart Test Plan

- ***Assess Reactor Coolant System Leakage Management Program***
  - ***Identify industry best practices***
  - ***Make program proactive and conservative***
  - ***Develop leakage inspection plan for future outages***

Management and Human Performance Excellence Plan

Dave Eshelman

Director Support Services

FENOC

Management and Human Performance Excellence Plan

- *Actions that must be addressed to enhance employee and public confidence*
- *Sponsored by Chief Operating Officer*
- *Actions to Strengthen Management - Complete*
- *Initial Root Cause - Complete*
- *Industry Review - Complete*
- *Management Root Cause - Discovery*

Management and Human Performance Excellence Plan

Our Conclusions:

"Management ineffectively implemented processes, and thus failed to detect and address plant problems as opportunities arose"

Management and Human Performance Excellence Plan

Four Key Focus Areas Identified:

- *Ownership*
- *Oversight*
- *Standards*
- *Decision-making*

Davis-Besse Restart Action Plan

Howard Bergendahl

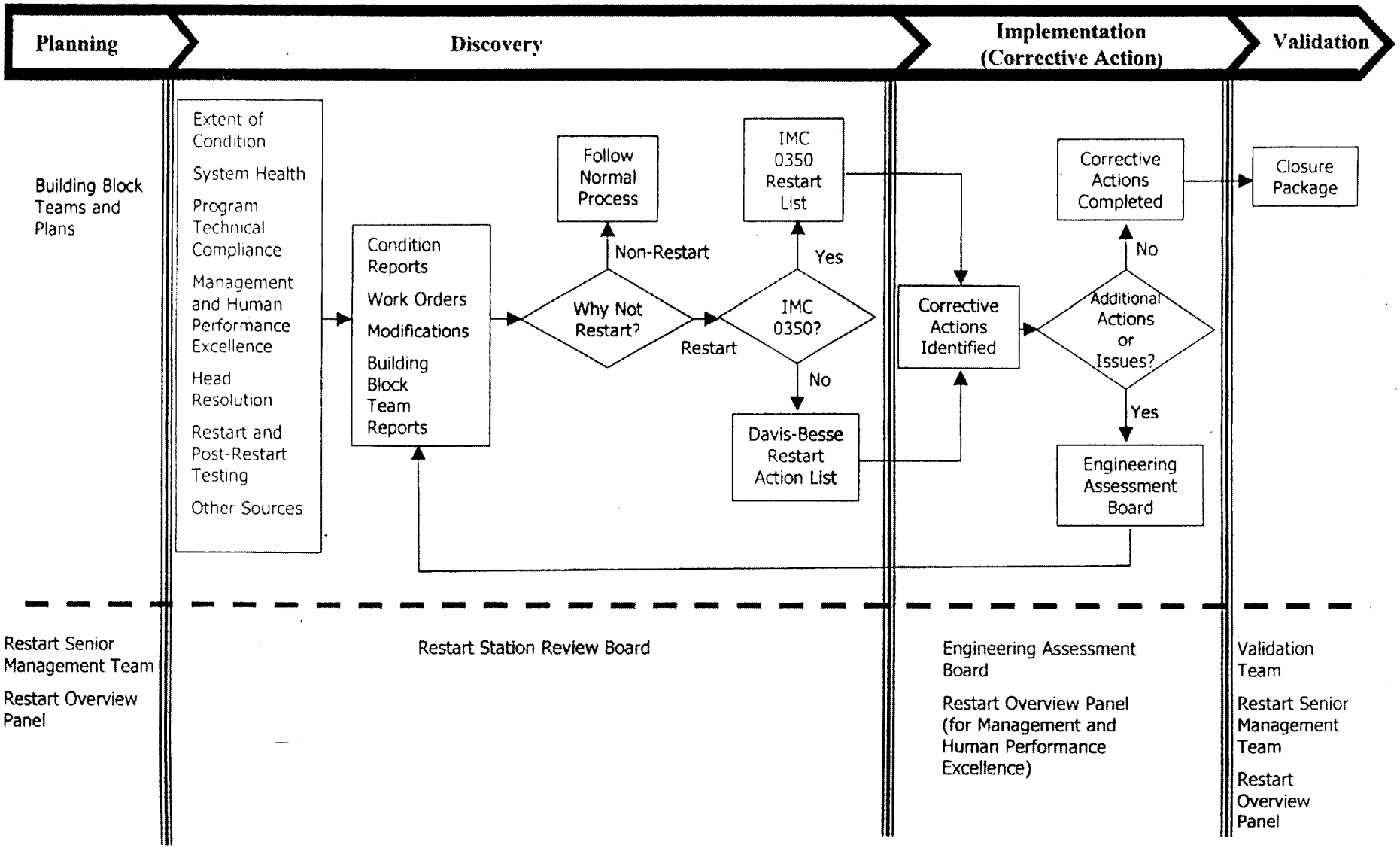
Vice President - Nuclear

FENOC

Davis-Besse Restart Action Plan

- *Create a Restart Overview Panel and and Engineering Assurance Board*
- *Manage and control restart action items*
- *Coordinate IMC 0350 Restart Items with NRC*
- *Review and approve the closure of all restart items*

Davis-Besse Restart Action Plan



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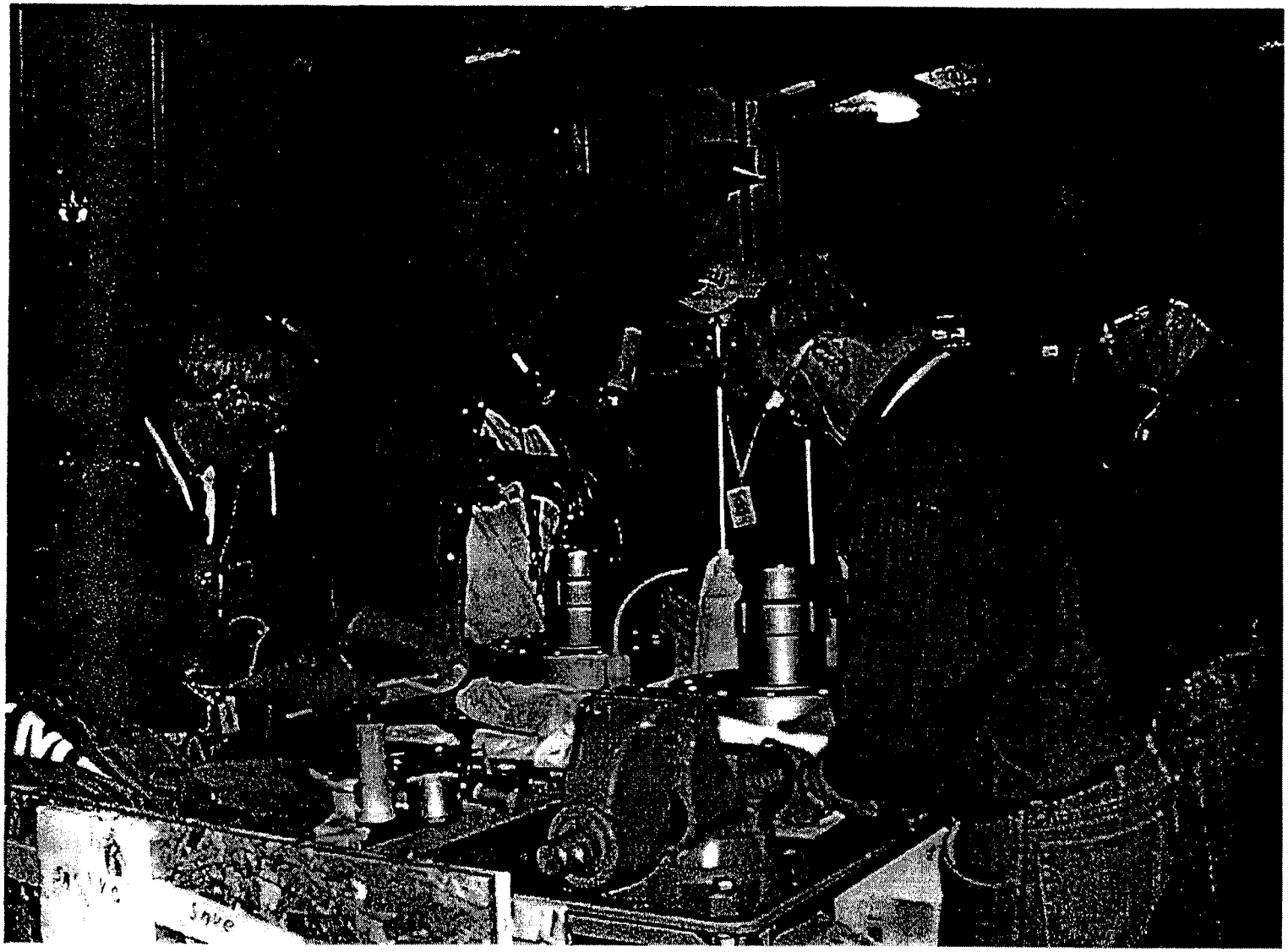
Conclusions

We are committed to a comprehensive approach to ensure Davis-Besse is ready for safe and reliable operation and improved performance.

Closing Remarks

Lew Myers
FENOC Chief Operating Officer

Today we hope to have demonstrated that our Management Team will take the actions needed to assess technical issues, ensure safe and reliable operations, improve employee trust, regain public and regulatory confidence.



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