September 14, 1998

LICENSEE: Northeast Nuclear Energy Company (NNECO)

FACILITY: Millstone Nuclear Power Station, Units 1, 2, and 3

SUBJECT: SUMMARY OF AUGUST 18, 1998, MEETING WITH NNECO TO DISCUSS THE STATUS OF MILLSTONE UNITS 1, 2, AND 3

On August 18, 1998, the Acting Director of the Special Projects Office and his staff met with NNECO representatives in a publicly observed meeting. The meeting was held to allow NNECO to inform the NRC staff of the status of the recovery of NNECO's three Millstone units. A list of meeting participants is enclosed (Enclosure 1).

NNECO's President and CEO of Northeast Nuclear began NNECO's presentation with a discussion on management's focus on a safe, event free operation of Millstone Unit No. 3. It was noted that dedicated resources had not been reduced for Unit No. 3 and that site support services have increased to support the restart of Unit No. 2. This discussion was followed by detailed updates of the Millstone Units 2 and 3 activities, including Nuclear Oversight's assessment, with a brief discussion on Unit No. 1. It was noted that NNECO is factoring in lessons learned during the restart of Unit No. 3 to enhance its effort in restarting Unit No. 2. The restart of Unit No. 2 is targeted for the end of the year; however, NNECO indicated that it cannot determine the actual date until it has completed assessing all of the restart issues and necessary corrective actions. NNECO's presentation slides are enclosed (Enclosure 2).

NNECO also discussed background material on Key Performance Indicators, Significant Items List Status, and a License Amendment Schedule.

Original signed by:

Donald G. McDonald, Jr., Senior Project Manager Millstone Project Directorate Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

Docket Nos. 50-245, 50-336, and 50-423

Enclosures: As stated (2)

cc w/encl: See next page

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UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555-0001

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Millstone Nuclear Power Station Units 1, 2, and 3

CC:

Lillian M. Cuoco, Esquire Senior Nuclear Counsel Northeast Utilities Service Company P. O. Box 270 Hartford, CT 06141-0270

Mr. Kevin T. A. McCarthy, Director Monitoring and Radiation Division Department of Environmental Protection 79 Elm Street Hartford, CT 06106-5127

Mr. Allan Johanson, Assistant Director Office of Policy and Management Policy Development and Planning Division 450 Capitol Avenue - MS 52ERN P. O. Box 341441 Hartford, CT 06134-1441

Regional Administrator, Region I U.S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406

First Selectmen Town of Waterford Hall of Records 200 Boston Post Road Waterford, CT 06385

Mr. J. P. McElwain Recovery Officer - Millstone Units 1 and 2 Northeast Nuclear Energy Company P. O. Box 128 Waterford, CT 06385

Mr. Wayne D. Lanning, Director Millstone Inspections Office of the Regional Administrator 475 Allendale Road King of Prussia, PA 19406-1415

Mr. F. C. Rothen Vice President - Work Services Northeast Utilities Service Company P.O. Box 128 Waterford, CT 06385 Mr. Charles Brinkman, Manager Washington Nuclear Operations ABB Combustion Engineering 12300 Twinbrook Pkwy, Suite 330 Rockville, MD 20852

Mr. John Streeter Recovery Officer - Nuclear Oversight Northeast Utilities Service Company P. O. Box 128 Waterford, CT 06385

Senior Resident Inspector Millstone Nuclear Power Station c/o U.S. Nuclear Regulatory Commission P. O. Box 513 Niantic, CT 06357

Mr. David Amerine Vice President - Human Services Northeast Utilities Service Company P. O. Box 128 Waterford, CT 06385

Mr. M. H. Brothers Vice President - Operations Northeast Nuclear Energy Company P. O. Box 128 Waterford, CT 06385

Mr. M. R. Scully, Executive Director Connecticut Municipal Electric Energy Cooperative 30 Stott Avenue Norwich, CT 06360

Mr. William D. Meinert Nuclear Engineer Massachusetts Municipal Wholesale Electric Company P. O. Box 426 Ludlow, MA 01056

Ernest C. Hadley, Esq. 1040 B Main Street P. O. Box 549 West Wareham, MA 02576 Millstone Nuclear Power Station Units 1, 2, and 3

CC:

Citizens Regulatory Commission ATTN: Ms. Susan Perry Luxton 180 Great Neck Road Waterford, CT 06385

The Honorable Terry Concannon Nuclear Energy Advisory Council Room 4035 Legislative Office Building Capitol Avenue Hartford, CT 06106

Mr. G. D. Hicks Director - Unit 3 Northeast Nuclear Energy Company P. O. Box 128 Waterford, CT 06385

John W. Beck, Prosident Little Harbor Consultants, Inc. Millstone - ITPOP Project Office P. O. Box 0630 Niantic, CT 06375-0630

Mr. Evan W. Woollacott Co-Chair Nuclear Energy Advisory Council 128 Terry's Plain Road Simsbury, CT 06070

Mr. Daniel L. Curry Project Director Parsons Power Group Inc. 2675 Morgantown Road Reading, PA 19607

Mr. P. D. Hinnenkamp Director - Unit Operations Northeast Nuclear Energy Company P. O. Box 128 Waterford, CT 06385 Mr. B. D. Kenyon (Acting) Chief Nuclear Officer - Millstone Northeast Nuclear Energy Company P. O. Box 128 Waterford, CT 06385

Deborah Katz, President Citizens Awareness Network P.O. Box 83 Shelburne Fails, MA 03170

Joseph R. Egan, Esq. Egan & Associates, F.C. 2300 N Street, NW Washington, D.C. 20037

Mr. J. A. Price Director - Unit 2 Northeast Nuclear Energy Company P. O. Box 128 Waterford, CT 06385

Attorney Nicholas J. Scobbo, Jr. Ferriter, Scobbo, Caruso, Rodophele, PC 1 Beacon Street, 11th Floor Boston, MA 02108

Mr. E. J. Harkness Director - Unit 1 Operations Northeast Nuclear Energy Company P. O. Box 128 Waterford, Connecticut 06385

LIST OF PARTICIPANTS August 18, 1998

NRC

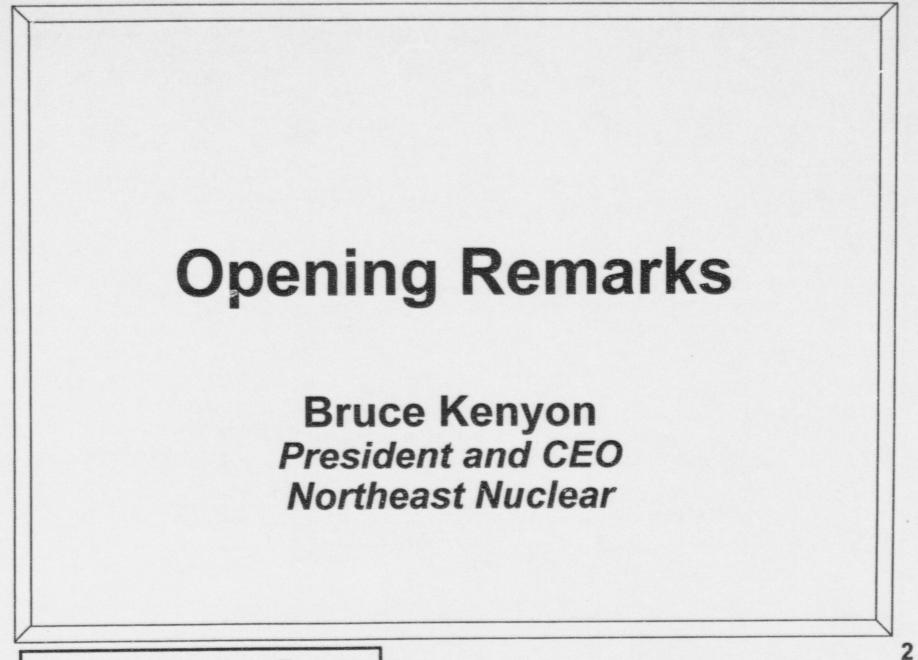
NNECO

E. Imbro W. Lanning J. Durr D. Beaulieu T. Easlick et al. B. Kenyon D. Amerine M. Brothers M. Bowling J. McElwain J. Streeter et al.

Enclosure 1

Northeast Utilities Briefing for the NRC Restart Assessment Panel

Millstone Station August 18, 1998



Management is Focused on the Safe Event-Free Operation of Unit 3

- Unit 3 dedicated resources have not been reduced
- Site Support Services have increased their support of Unit 2 recovery
 - -ICAVP response
 - -Engineering Programs (MEPL, Fire Protection
 - -Nuclear Engineering (Chapter 14 safety and radiological analyses
 - -Nuclear Oversight
 - -Regulatory Affairs

Unit 3 Update Unit 2 Update
Nuclear Oversight Assessmen
Closing Remarks

Unit 3 Update Mike Brothers Vice President - Operations

Northeast Nuclear Energy

Millstone Unit 3 Operational Status

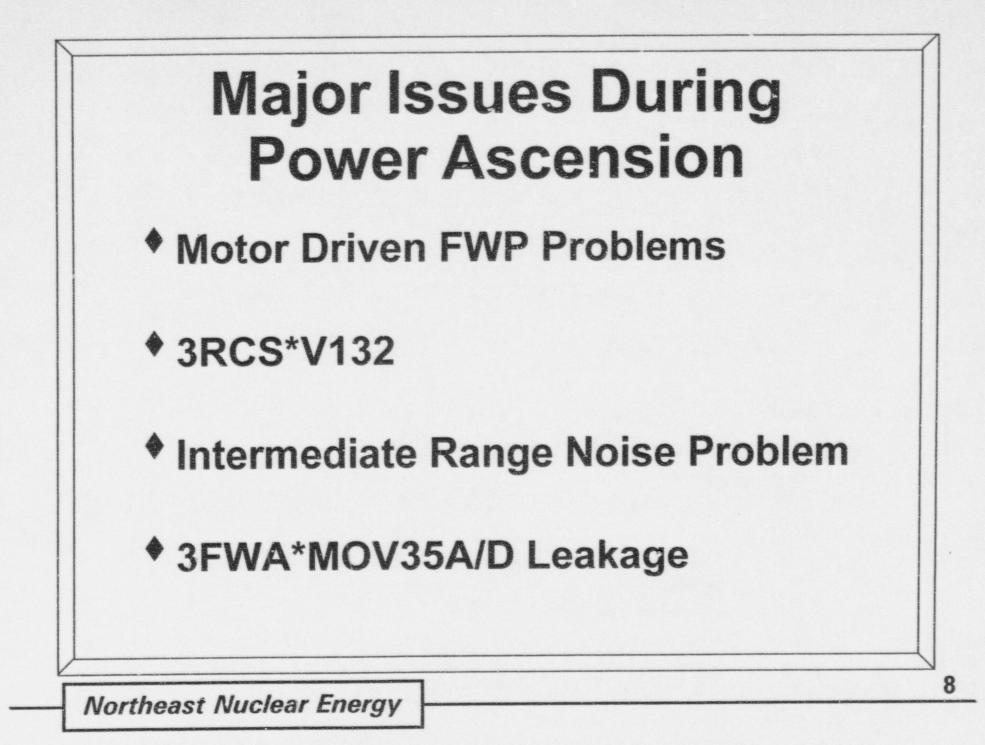
- Completed seven day outage to repair leak on 3FWA*MOV35D
- Prior to shutdown operated for 37 days
- Current 100% critical boron concentration is ~940 ppm
- Completed INPO E&A

Millstone Unit 3 Startup & Power Ascension

- First Mode 4 4/07/98
- First Mode 3
- First Reactor Critical
- Mode 1
- Turbine On Line
- 100% Power

4/07/98 4/10/98 6/30/98 7/02/98 7/04/98 7/14/98

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Millstone 3 Power Ascension Lessons Learned

- Use of simulator for key evolutions
- Review procedures for 1st time evolutions
- Clearly define management rep role(s)
- Utilize self-assessments following major assessments

9

Summary of Deferred Work Commitments

- Backlog of deferred work will be dispositioned six months following completion of RFO 6 except for ICAVP DRs and UIRs/OIRs.
- ICAVP DRs and UIRs/OIRs dispositioned prior to entry into Mode 2 following RF06

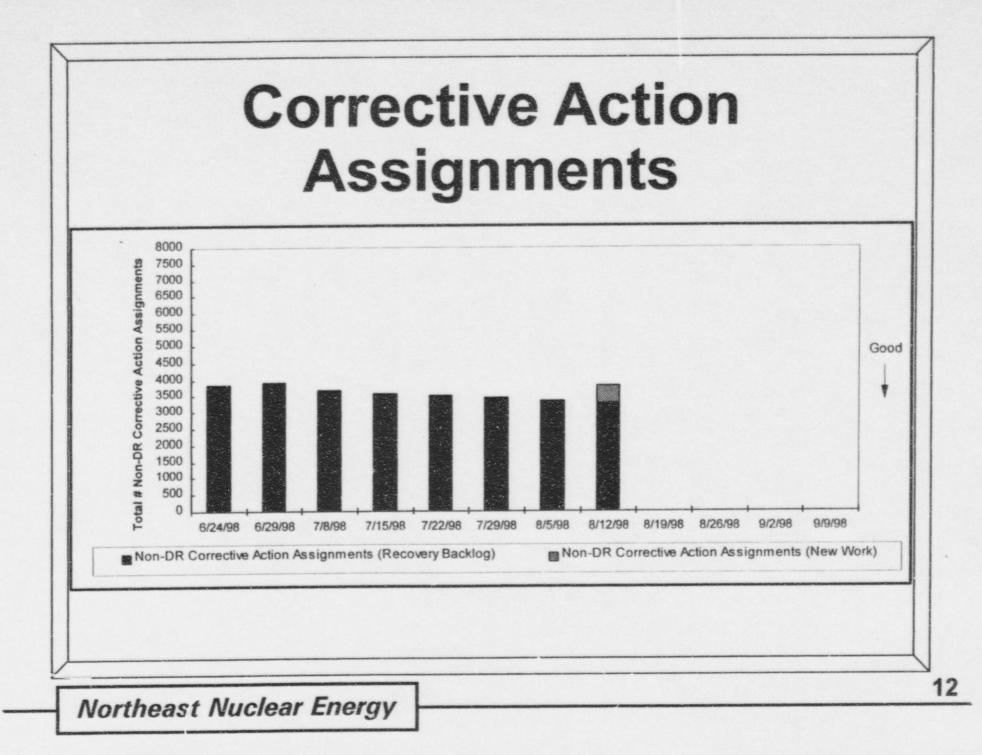
Remaining Deferrable Items

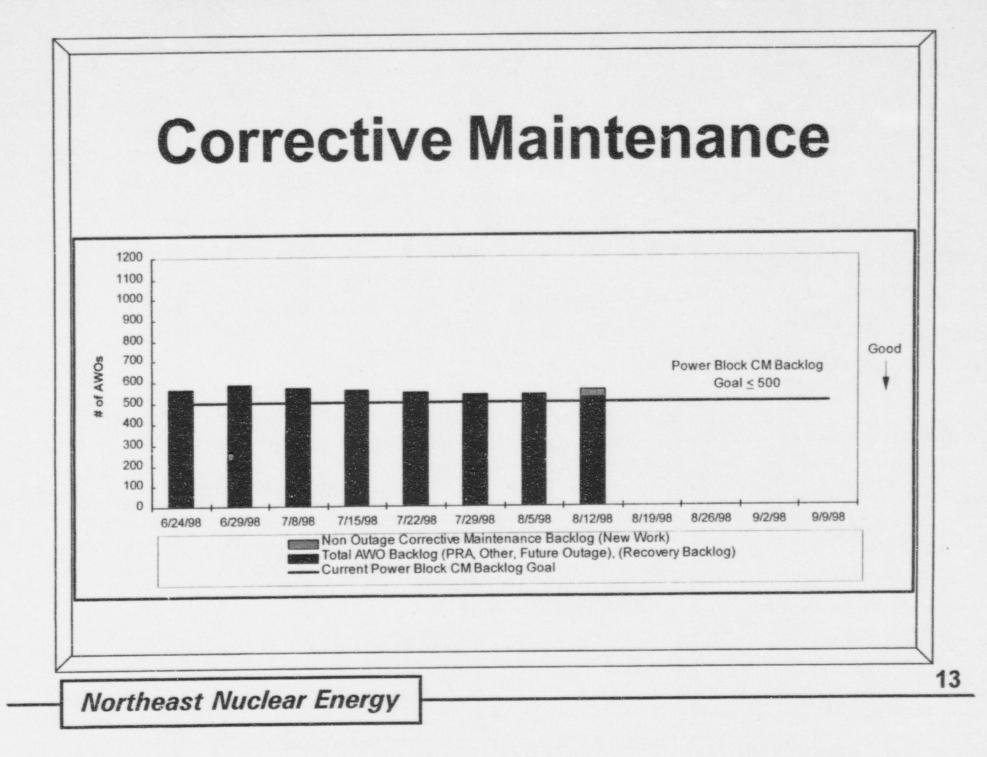
Corrective Action Assignments	3,272 of 3,915	
Corrective Maintenance	521 of 583	
Configuration Mgmt. Discovery	838 of 864	
Non-Conformance Reports	48 of 57	
Operator Work Arounds	14 of 15	
Control Room Deficiencies	2 of 5	
Temporary Modifications	15 of 15	
Engineering Backlog	667 of 587	
DR Corrective Action Assignments	886 of 838	
Operability Determinations	26 of 28	The second statement
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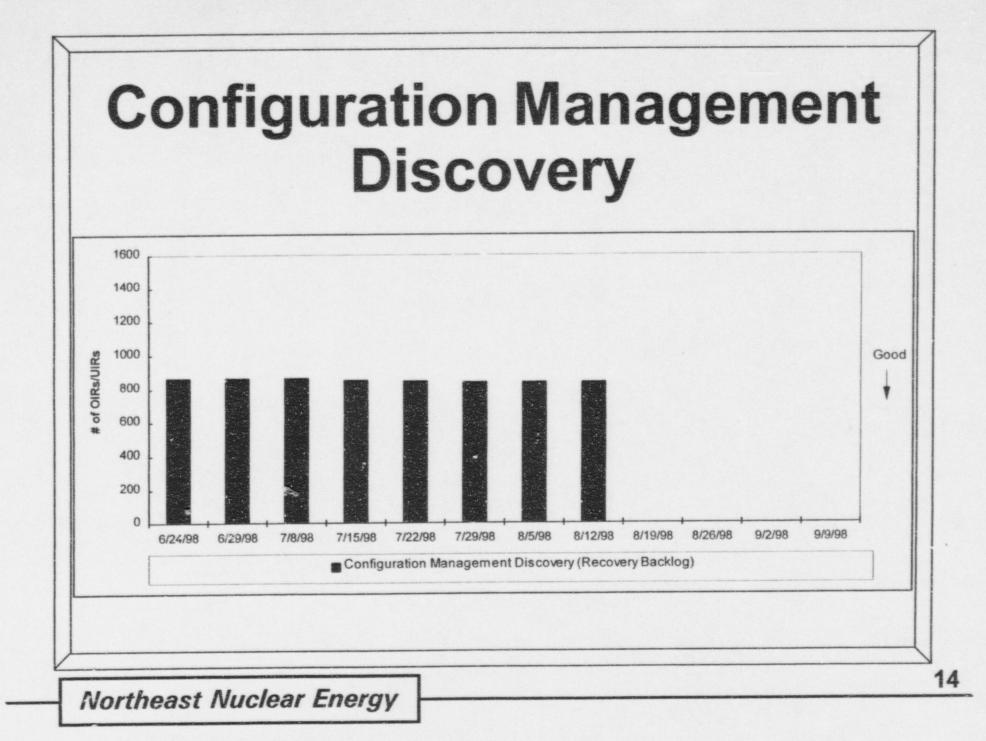
Total Deferrable Items

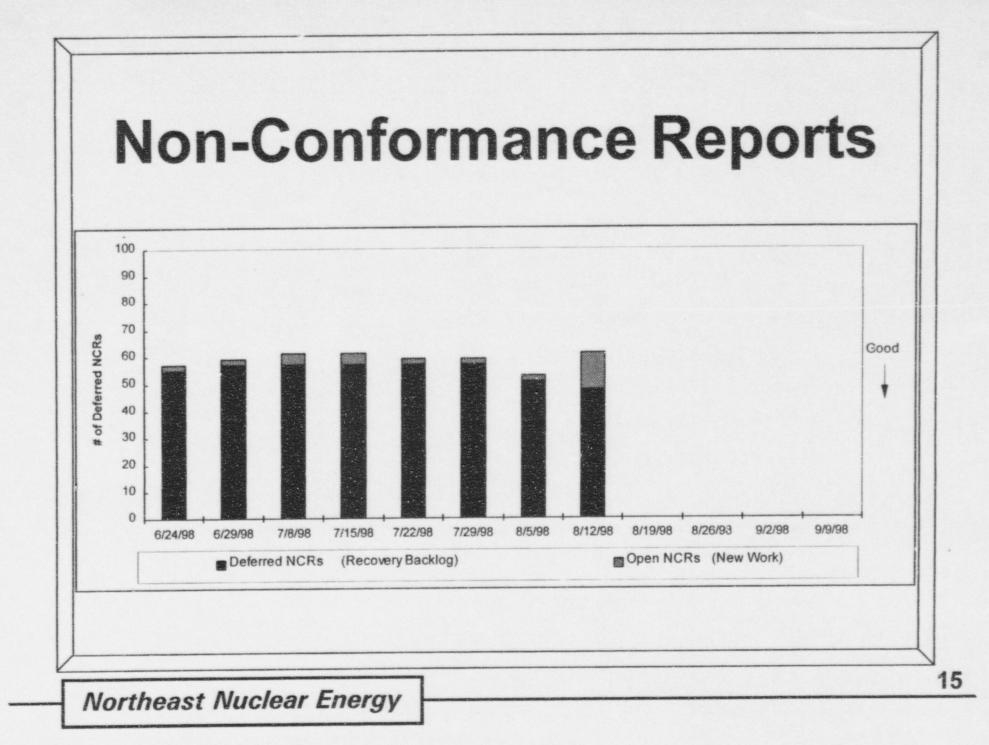
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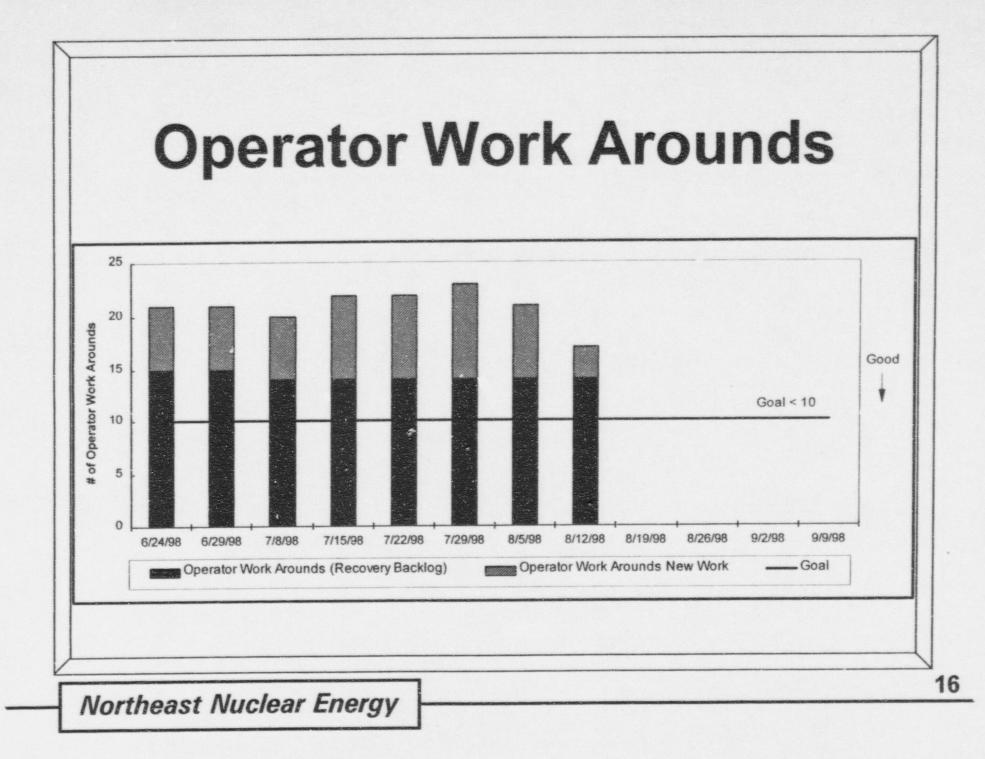
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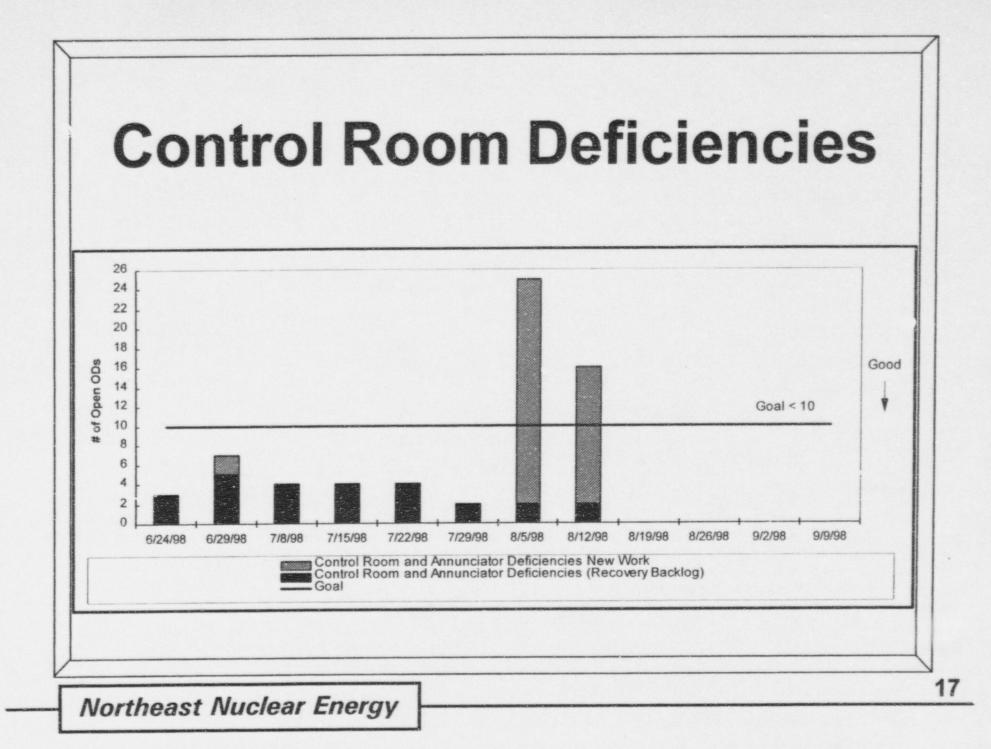


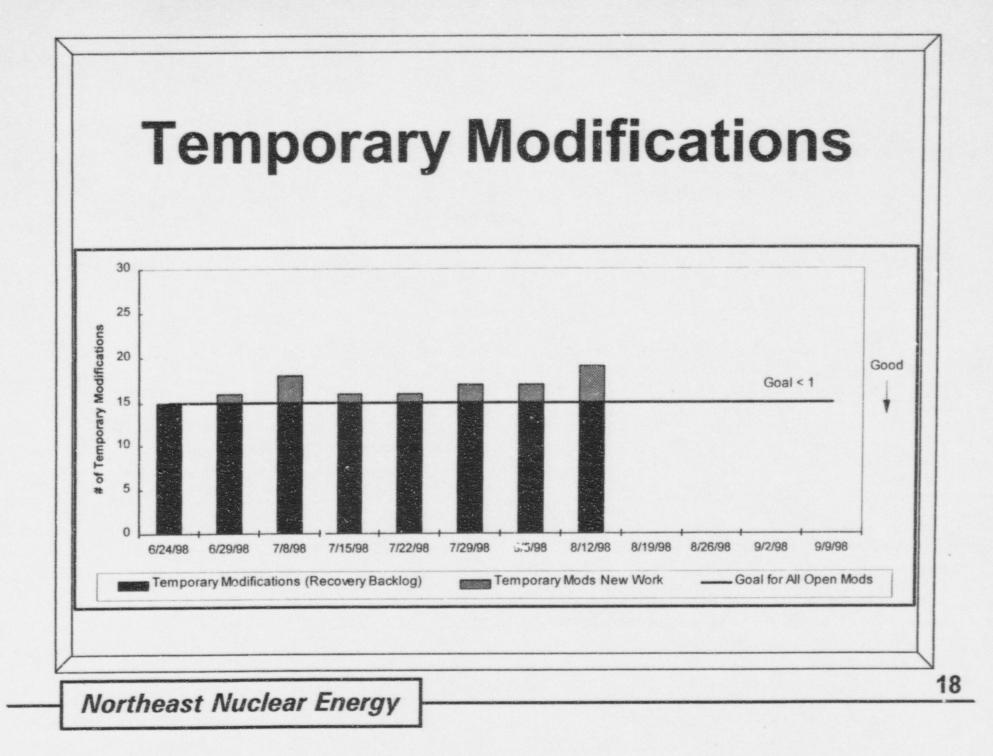


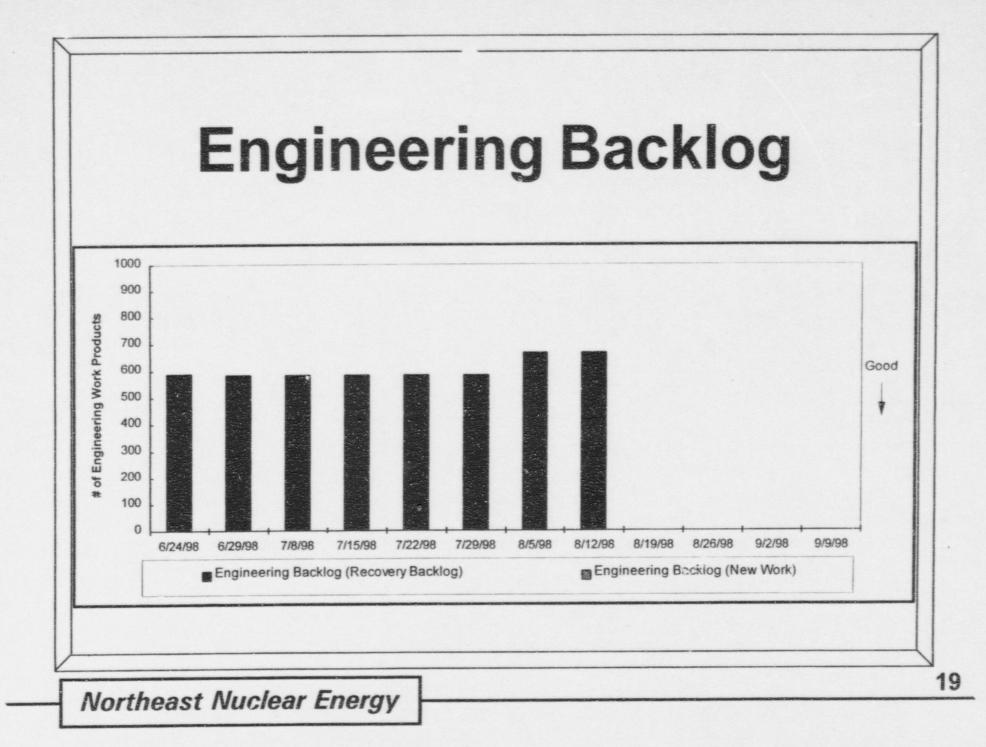


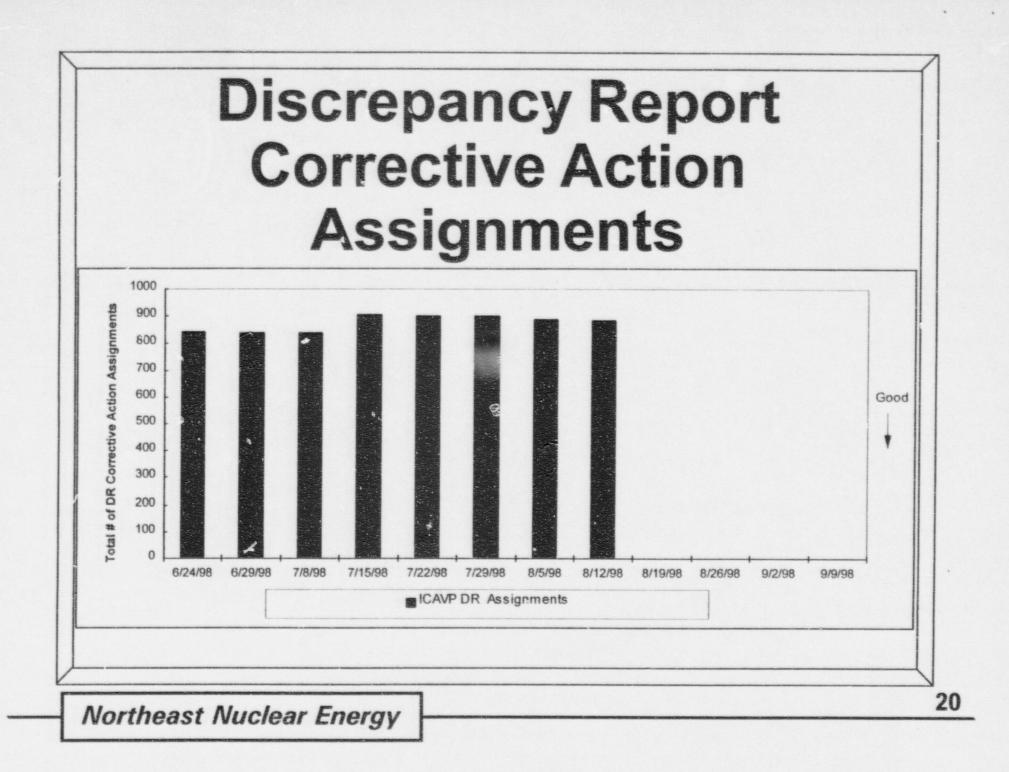


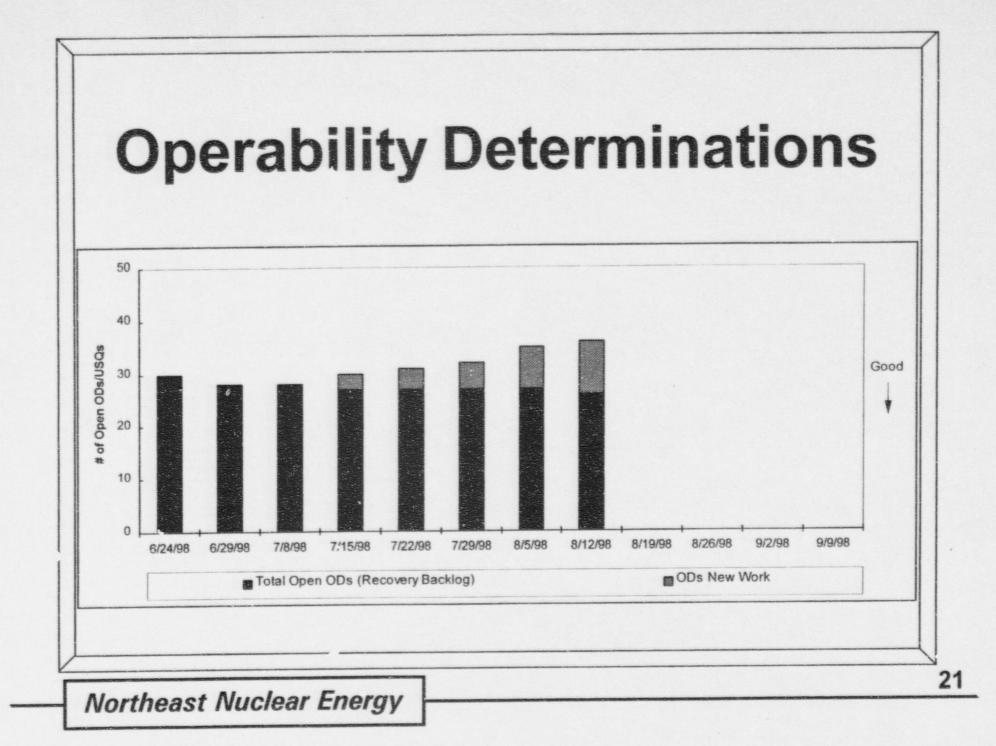






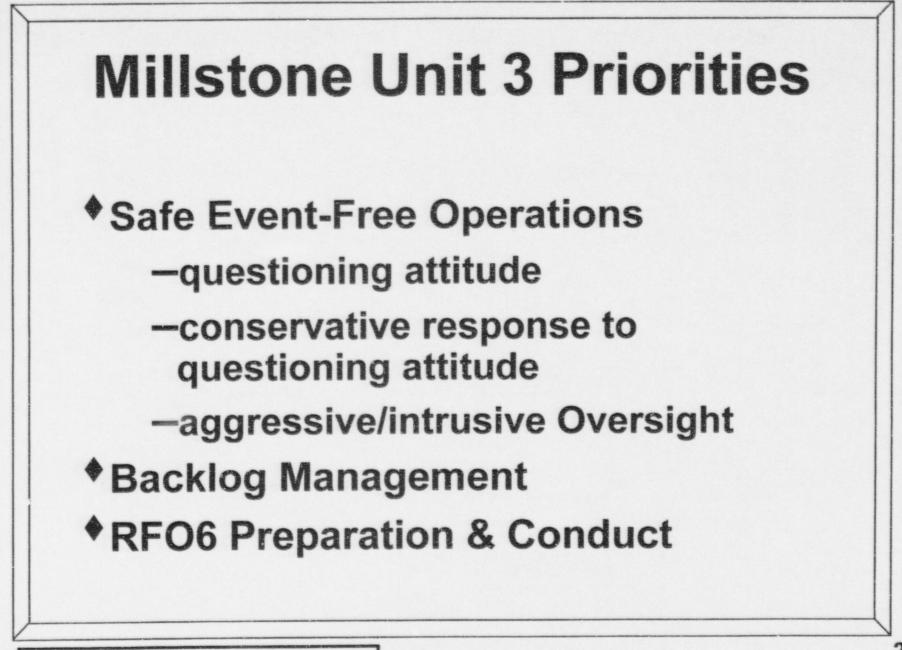


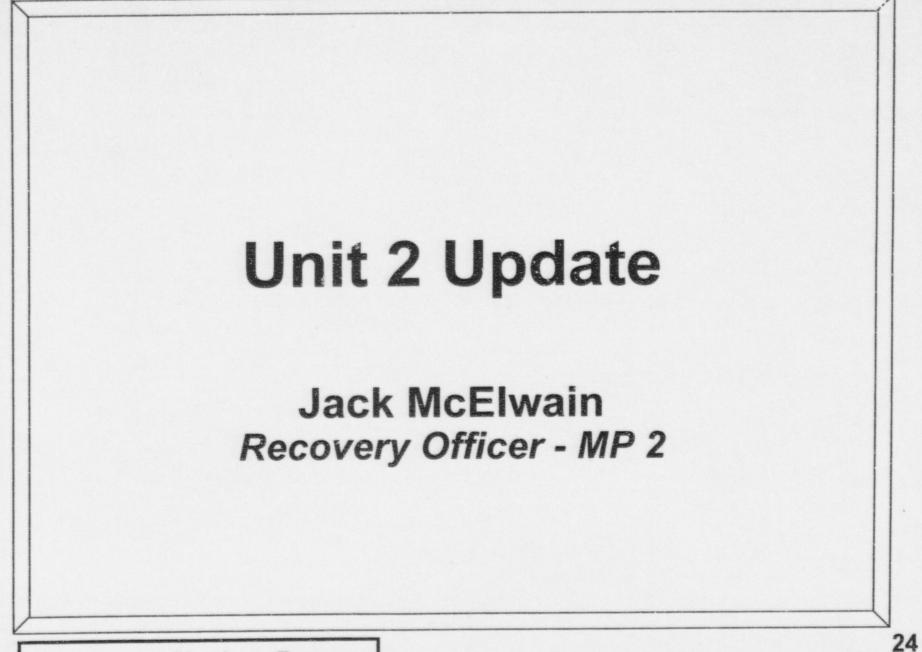


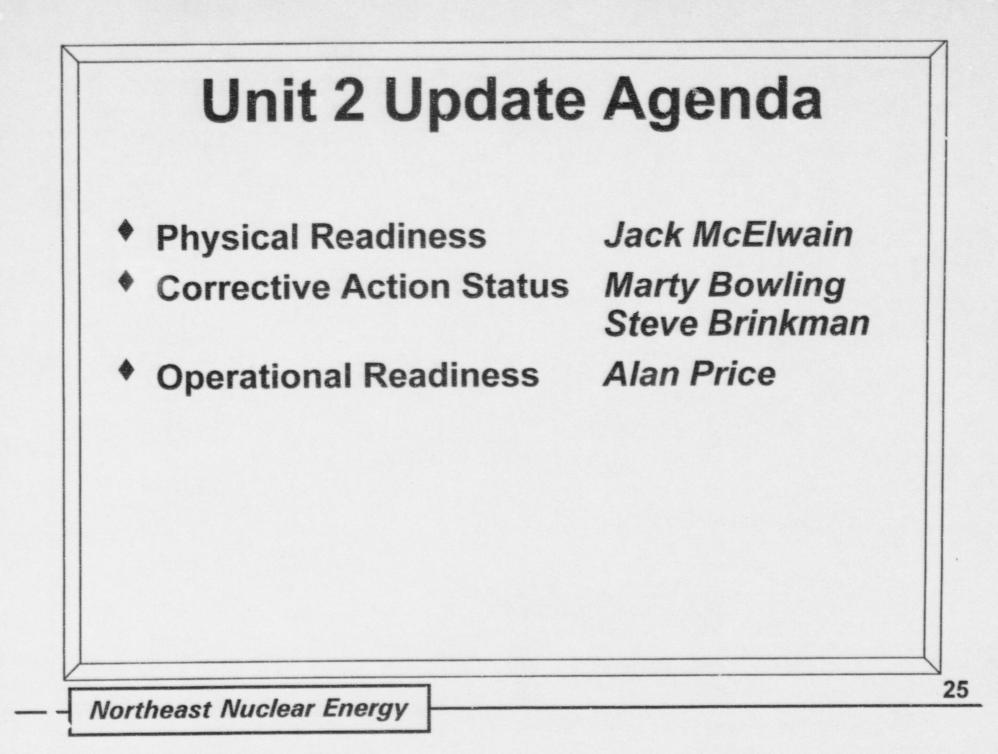


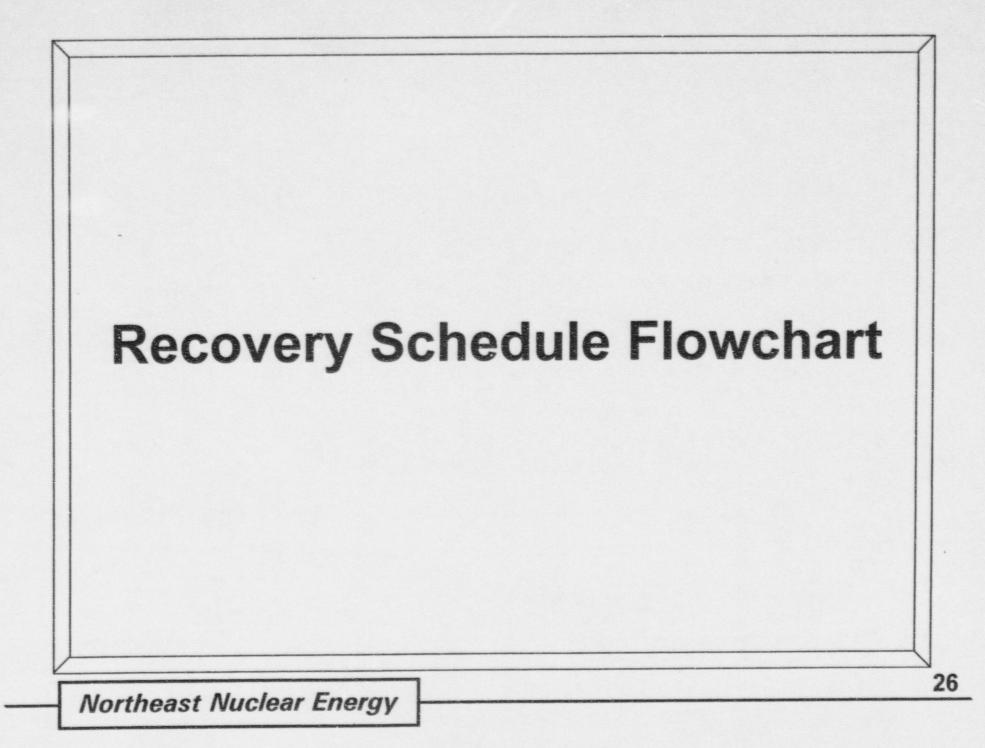


- Process for dispositioning deferred items has been implemented
- Management criteria for priority includes:
 - -reduction of Operator burdens
 - -Level 1 Condition Reports
 - -ICAVP Discrepancy Reports
 - -RFO 6









Millstone 2 Physical Readiness Actions

- Restart Mods 141 required by Mode 2 (51% complete)
- Restart Assignments

14,802 to be completed by Mode 2 (85% comp.)

Temporary Mods

16 non-outage support TMs installed

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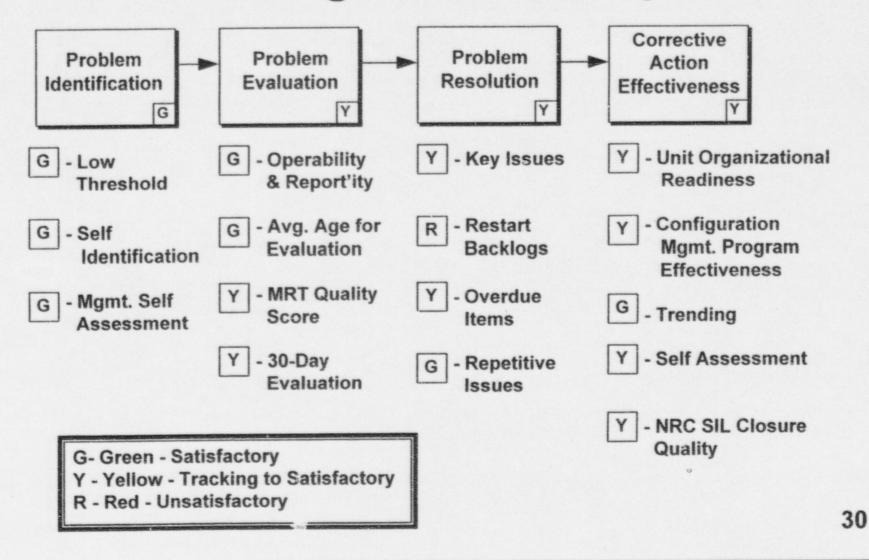
	e 2 Physical ess Actions
Control Room Deficiencies	36 remain and are part of the integrated work schedule
Restart Procedure Revisions	1624 of 2334 completed (70% completed)
* PUP	35 of 1258 remain
*AWOs	966 of 5040 remain

Corrective Action Status

Marty Bowling Steve Brinkman

Northeast Nuclear Energy

MP2 Corrective Actions are Tracking to Satisfactory



MP2 Readiness for Restart Key Issues

Satisfactory

* SCWE

Leadership, Security, Emergency Plan, Environmental, Training, Radiation Protection, Configuration Management, and Regulatory Compliance

MP2 Readiness for Restart Key Issues (continued)

Under Assessment

- Self Assessment
- Corrective Action
- Operational Readiness
- Work Control & Planning
- Procedure Quality & Adherence
- Engineering Quality

Key Issue of "Attention to Engineering Quality" is Receiving Management Focus

- Management coaching being used to raise standards for accuracy and procedure compliance
- Key Issue for Unit 2 restart readiness
- Station Engineering Quality Review Board implemented
- Unit Engineering Quality Review Boards implemented

Station Engineering Quality Review Board

- Membership Engineering Directors with executive sponsorship
- Charter

Management focus on raising standards and quality of engineering products

Process

Reviews self assessments, internal and external reports, and KPIs to identify trends needing focus or assessment

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Unit Engineering Quality Review Boards

Members

Experienced, multi-discipline management team

Scope

Pre-implementation review of primary change documents (e.g., DCRs, MMODs, TMODs), safety evaluations/screens, and selected secondary change documents (e.g., test procedures, DCNs, etc.)

Remaining Regulatory Readiness Restart Corrective Action Items

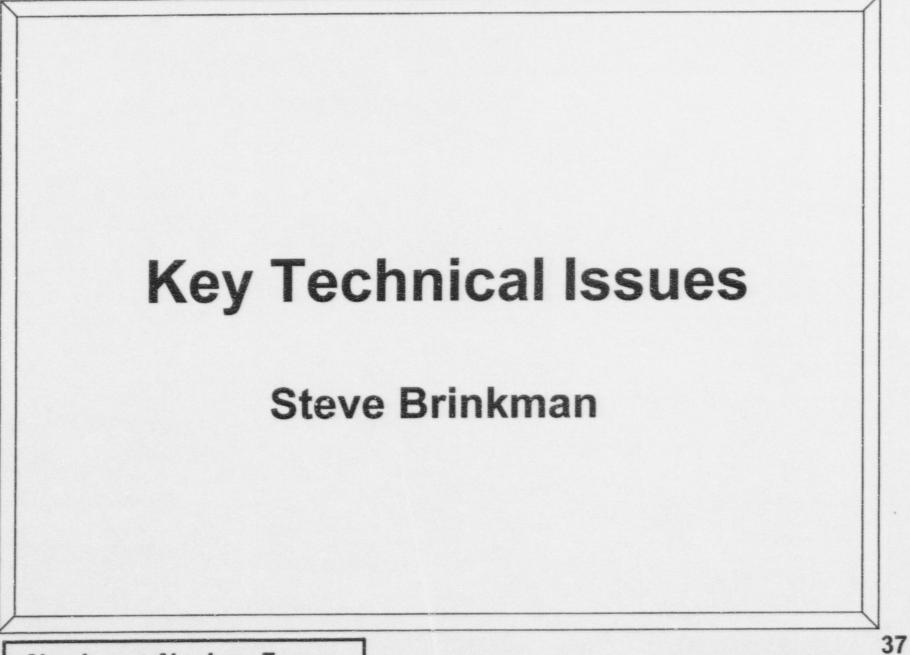
*10CFR50.54(f)

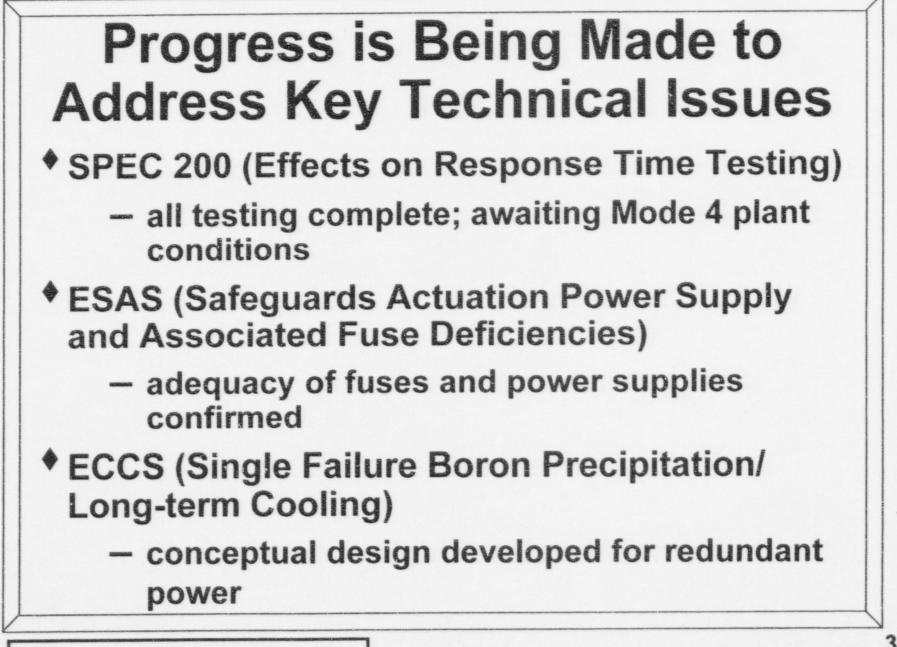
NRC Commitments

Level 3 DR Assignments

License Amendments
SIL

600 of 3,918 103 remaining 108 of 350 7 of 25 39 of 76





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- MEPL (Safety Classification)
 - historical review complete
- + HELB
 - progress being made, completion mid-September
- Appendix R/Fire Protection
 - fire hazards analysis and compliance report
 50 percent complete

39

- + EEQ
 - progress being made, completion late September

Operational Readiness

Alan Price Unit Director - MP2

40

Millstone 2 Operational Readiness

Human Performance	<u>Satisfactory</u> - few errors - grassroots initiatives - procedure use/adherence
* Operators	<u>Tracking to Satisfactory</u> - staffing - training - performance
*STAs	<u>Satisfactory</u> - staffing - training - performance

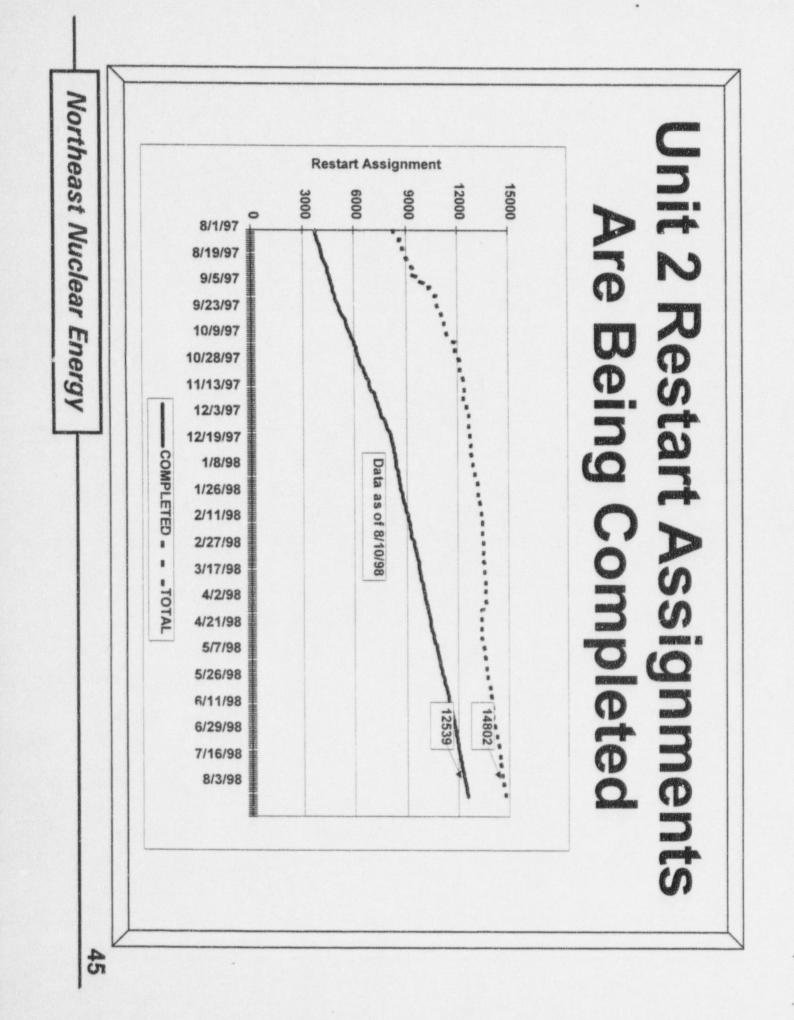
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We Have Completed Significant Activities for MP2 Operational Readiness

- Boric Acid/primary water makeup
- EDG slow start
- Fire water crosstie to EDG cooling
- AFW cavitating venturis
- RCP seal package change out to support HU/CD
- 100% Rx head penetration inspection
- A & B SW header inspection & repair

We Have Completed Physical Work Activities for MP2 Operational Readiness

- A & D RCP motor overhauls
- A & B LPSI pump/motor overhaul
- A, B, & C HPSI pump overhauls
- A & B SGFP front standard overhaul
- A containment spray pump overhaul
- A & B EDG piping repairs
 - (>100 welded connections)



We are Making Progress on Millstone 2 Operational Readiness Actions

Operator
Workarounds

Tracking to Satisfactory

- 18 currently on list
- reviewed for aggregate
impact on operators

Operability
 Determinations

<u>Tracking to Satisfactory</u> - 40 currently on list

- reviewed for aggregate impact on operators

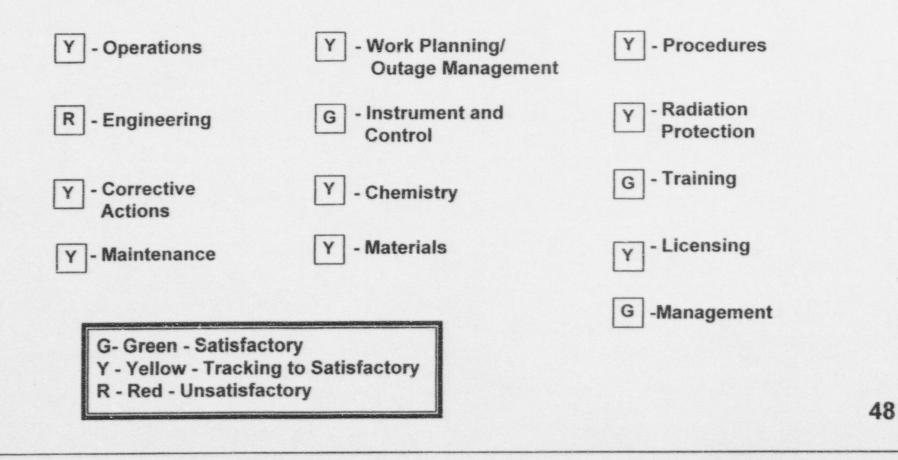
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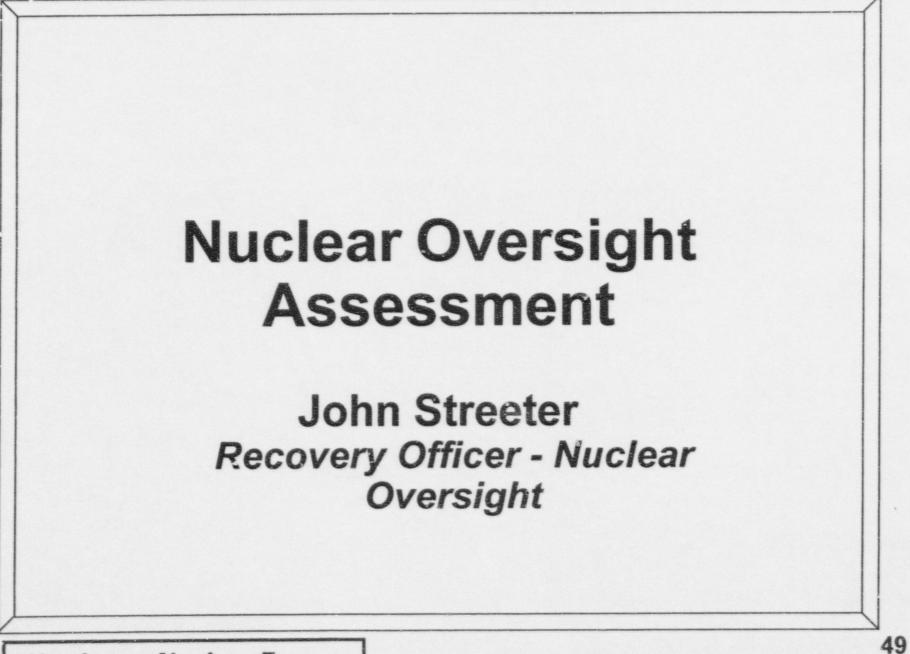
Millstone 2 Operational Readiness Actions (continued)

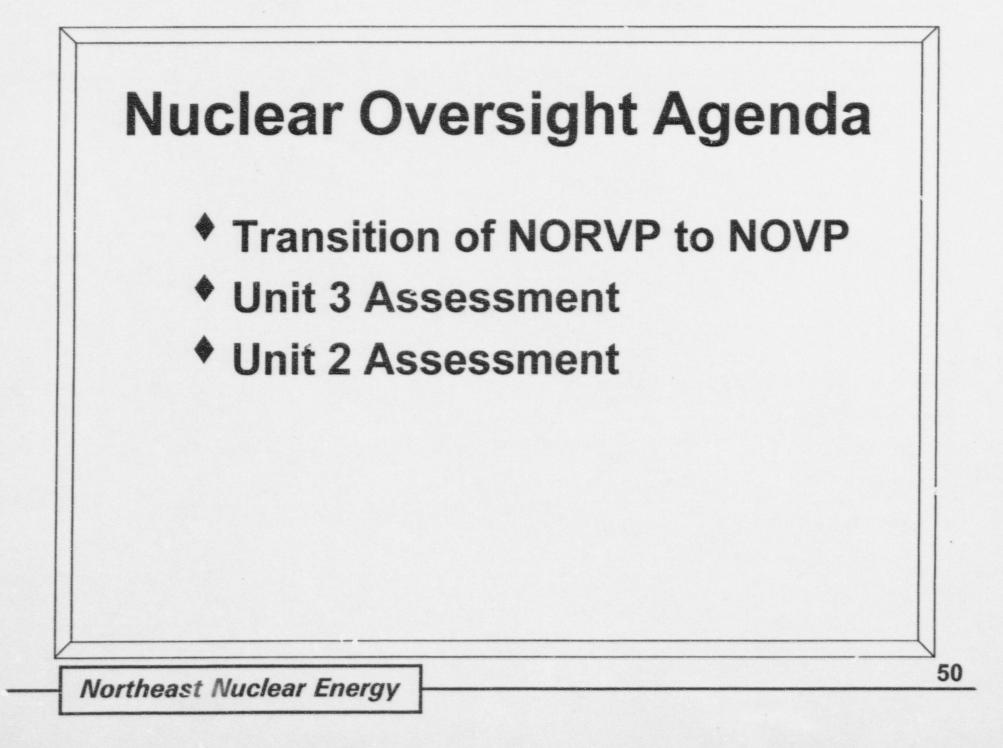
Temporary Modifications Tracking to Satisfactory
25 currently on list
9 out of the 25 are
outage support
reviewed for aggregate
impact on Operators

Northeast Nuclear Energy

Millstone 2 Performance Annunciator Panel 2nd Quarter Results







Transition of Nuclear Oversight Restart Verification Plan (NORVP) to Nuclear Oversight Verification Plan (NOVP)

- NORVP was used to verify Unit 3 restart readiness
- NORVP experience indicated a need to improve the process
- Transition has been made to the NOVP
- NOVP is an improved process

Assessment of NORVP Experience Revealed Areas for Improvement

- Number of administrative efficiencies
- Evaluated issues
- Observation depth

Transition of NORVP to NOVP

NORVP Issues

NOVP Issues

NSAB/Oversight SCWE

Leadership Self-Assessment Corrective Action Procedure Adherence Regulatory Compliance No longer evaluated

Attributes embodied in other evaluated areas.

Security Fire Protection Environmental Monitoring Emergency Plan Training **Evaluated periodically**

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Transition of NORVP to NOVP

(continued)

NORVP Issues

NOVP Issues

Operations Maintenance Work Control Materials Engineering Configuration Management Chemistry Radiation Protection Startup and Power Ascension Evaluated in all phases of operations, recovery and maintenance. Work Control and parts use (Materials) folded into Maintenance window. MEPL evaluation aspects (Materials) and CMP folded into Engineering. Chemistry and Radiation Protection (Health Physics).

NOVP Provides Improved Assessment of Performance

- *****SALP approach for core areas
- Administratively more efficient
- Observations more substantive
- Enhanced assessment reports for continued improvement

Unit 3 Startup Was Safe and Conservative

- Event free
- Improved communications
- Improved adherence to procedures
- Conservative and effective engineering
- Responsive and effective maintenance
- Thorough radiation controls
- Progressively improved performance

Current Unit 3 NOVP Assessment

Operations

-needs improvement

Engineering

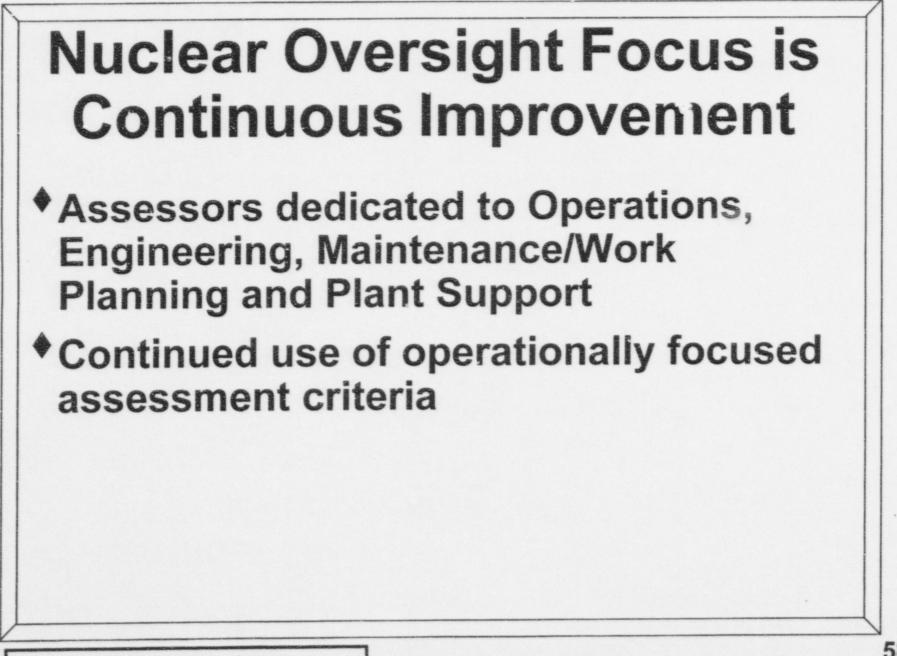
-needs improvement

Maintenance

-needs improvement

Chemistry/Health Physics

-satisfactory



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Restart Assessment of Unit 2 CMP Process Similar to Unit 3

- Implement lessons learned from U3 CMP Oversight assessments
- Assess design control process
- Perform system functional reviews
- Review engineering programs

Enhancements to Unit 2 Restart Assessment Process

- Recovery Oversight to focus on all engineering activities
- Integrate Oversight assessments
- Continue GAP analysis / NOVP
- Increase frequency of Director level status meetings

Current Unit 2 NOVP Assessment

- Operations
 - -satisfactory
- Engineering
 - -needs improvement
- Maintenance
 - -needs improvement
- Chemistry/Health Physics
 - -needs improvement SATISFACTORY

