

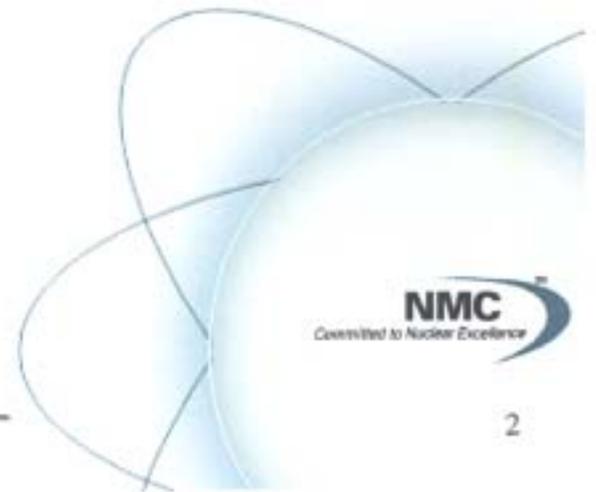


**Radiation Protection Improvements
Prairie Island Nuclear Generating Plant
Friday, June 29, 2007**



Agenda

- Introduction
- 2006 Outage Performance
- Radiation Protection (RP) Program Issues
- Radiation Protection Improvement Plan
- Conclusions



Introduction

- Purpose
 - Discuss Radiation Protection Issues and Improvements at Prairie Island Nuclear Generating Plant
- PI Attendees
 - Mike Wadley, Site Vice President
 - Paul Huffman, Plant Manager
 - Jon Anderson, Radiation Protection and Chemistry Manager

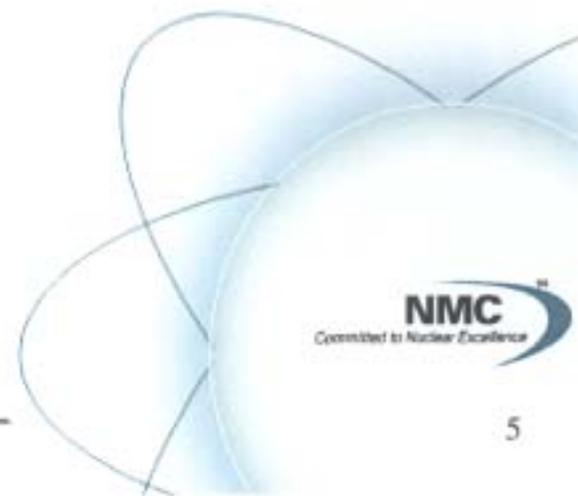


2006 Outage Performance

	1R24		2R24	
	Actual	Goal	Actual	Goal
Dose (Rem)	82	65	41	55
Personnel Contamination Events (PCE)	38	60	41	40

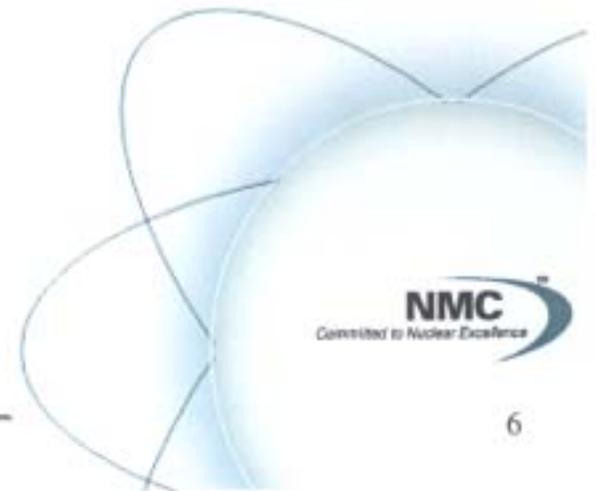
2006 Outage Performance

- 1R24 Outage
 - Containment airborne radioactivity increased to 2.89 Derived Air Concentration (DAC) Iodine 131 (I-131) during steam generator nozzle dam installation



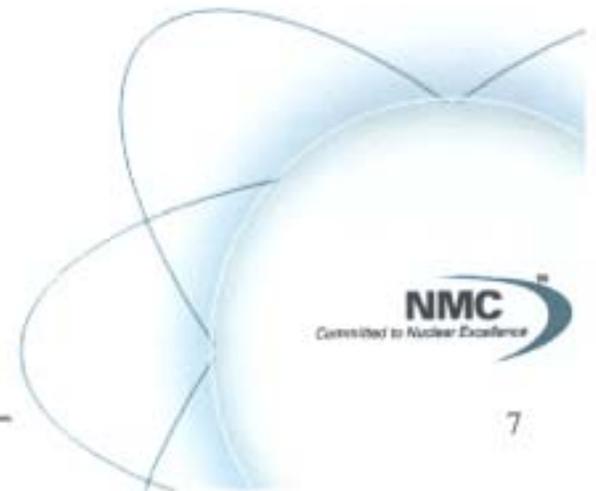
2006 Outage Performance

- 2R24 Outage
 - Containment particulate airborne radioactivity levels reached 0.43 DAC during head lift



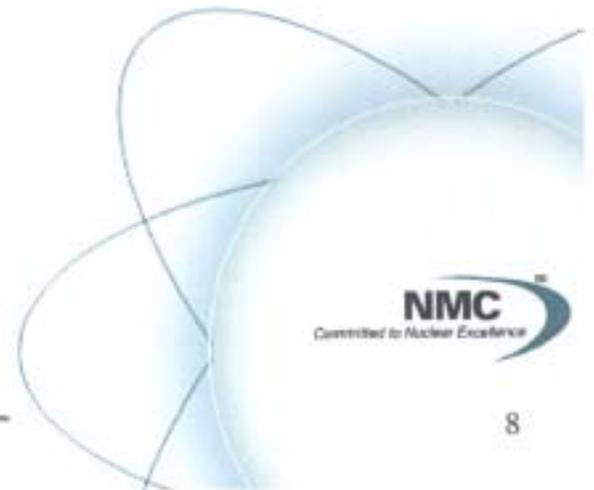
2006 Outage Performance

- Other Outage Issues
 - Very High Radiation Area (VHRA) Key Control
 - Locked High Radiation Area (LHRA) Boundary Control
 - Temporary Shielding



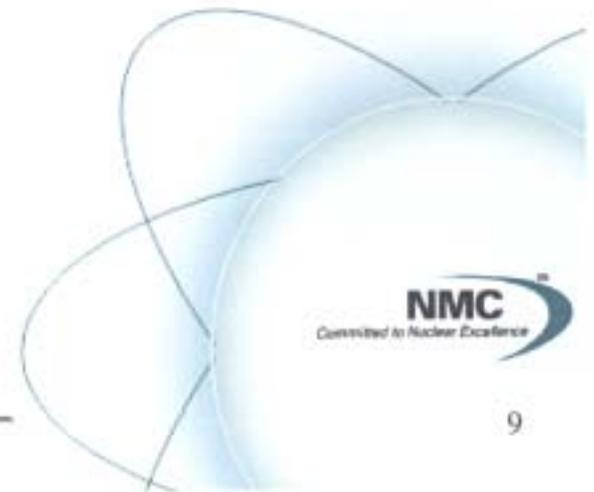
RP Program Issues

- Causal Evaluation Scope
 - Airborne Events
 - Effectiveness of Previous Corrective Actions
 - RP Oversight Behaviors



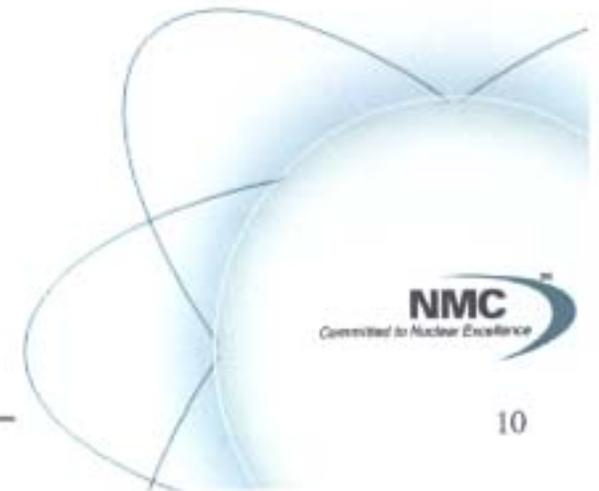
RP Program Issues

- Primary Causes/Contributors:
 - Response of RP Personnel to Radiation Protection Concerns
 - Adequacy of RP Supervisory Oversight
 - Limited Experience with Failed Fuel



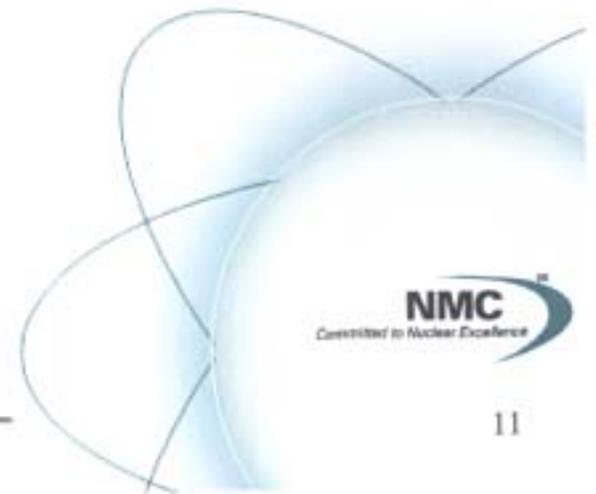
RP Improvement Plan

- Developed RP Department Improvement Plan Based On:
 - Organizational Assessment
 - Outage Performance
 - Corrective Action Program Analysis



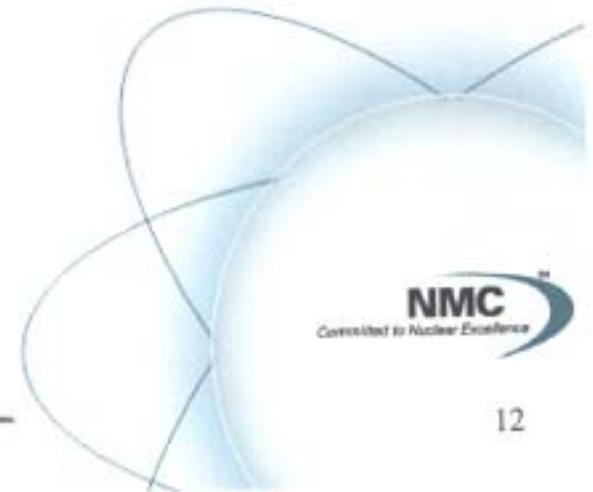
RP Improvement Plan

- Development of the RP Department Improvement Plan Included:
 - Various Internal and External Personnel
 - External Consultants
 - Prairie Island Management Team



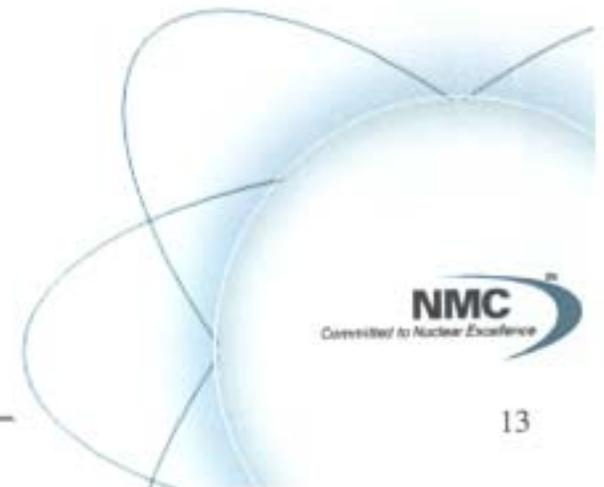
RP Improvement Plan

- RP Department Improvement Plan
 - Technical Issue Resolution
 - Project Implementation
 - Organizational Improvement
 - Leadership Improvement
 - Effectiveness Review



RP Improvement Plan

- Technical Issue Resolution
 - Airborne Radioactivity Contingencies
 - VHRA Key Control
 - LHRA Guards
 - Temporary Shielding



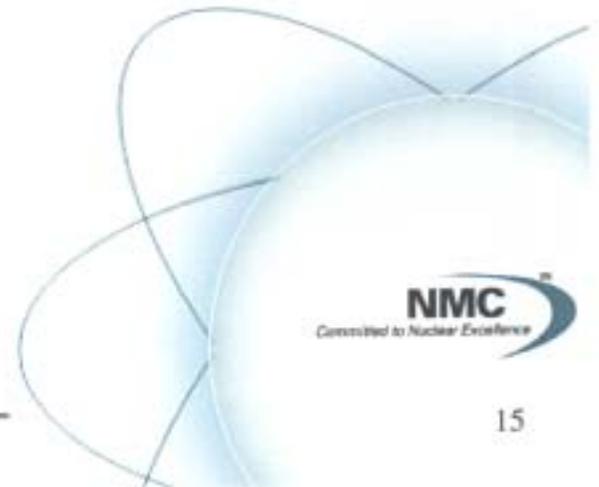
RP Improvement Plan

- Project Implementation
 - Access Control Modification
 - Dosimeter/Monitor Upgrade
 - LHRA Barrier Modification
 - Procedure Upgrade



RP Improvement Plan

- Organizational Improvement Elements
 - RP Organizational Performance
 - Vendor Partnership



RP Improvement Plan

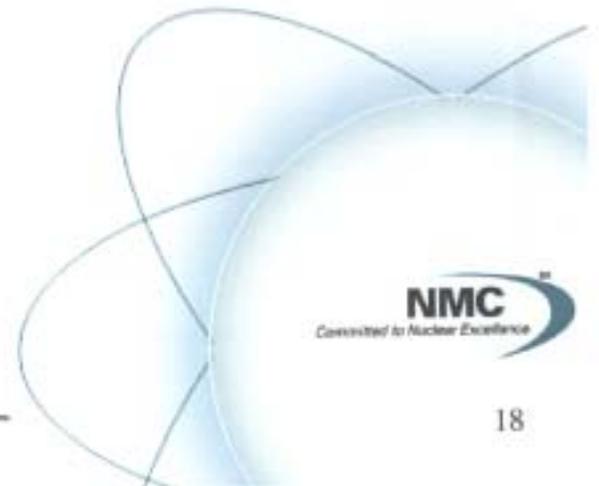
- Organizational Improvements
 - Staffing Additions
 - Outage Organization Structure
 - Safety Conscious Work Environment (SCWE) and Corrective Action Program (CAP) Training for Supervisors and Managers
 - Safety Culture Training for All Employees
 - CAP Training for Individual Contributors

RP Improvement Plan

- Organizational Improvements
 - Vendor Partnership
 - Schedule Safety Conscious Work Environment (SCWE) Training for Supplemental Outage Workers
 - Co-Selection of Supplemental Outage Supervisors
 - SCWE Supervisor Training for Supplemental Supervisors
 - Temporary Supervisor Training for Supplemental Supervisors

RP Improvement Plan

- Organizational Improvements
 - Vendor Partnership (continued)
 - Pre-Outage Team Alignment Sessions
 - Special Contractor SCWE Alignment Session
 - Conduct Post-Outage Lessons Learned Meeting with Supplemental Personnel and Radiation Protection Staff



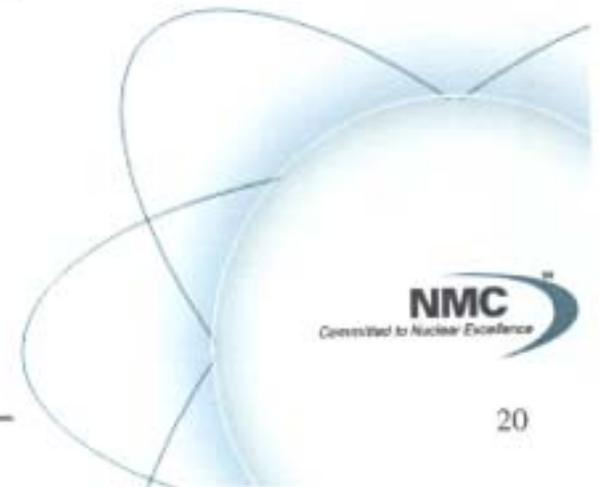
RP Improvement Plan

- Leadership Improvement
 - Structured assessment tool used to evaluate all Radiation Protection individuals
 - Assessment tool methodology is the core basis for employee alignment



RP Improvement Plan

- Leadership Improvement (continued)
 - Facilitated Team Alignment Meetings Aimed at Improving Communication & Team Work
 - Two Sessions per Work Group (8 hours per session)
 - External Consultant Participation



RP Improvement Plan

- Effectiveness Review
 - Conduct an Effectiveness Review of Prairie Island RP Staff (Corrective Action Culture)
 - Conduct an RP Program Focused Self-Assessment
 - Conduct an Effectiveness Review of Supplemental RP Staff (Corrective Action Culture)

Conclusions

- Prairie Island recognizes the importance of meeting and exceeding industry standards in radiation protection
- We are not satisfied with past performance
- Intent of the improvement plan is to achieve industry leading performance in our behaviors and work practices