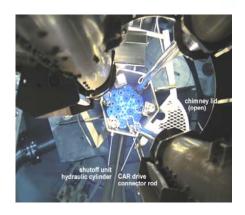






- · Pool-type reactors
- Designed and licensed for the purpose of producing medical isotopes



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New Processing Facility

- · Series of Hot Cells
- Target processing, medical isotope extraction,
- Waste Processing



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- Presentation will cover
 - Capability and Knowledge Management
 - Waste Management
 - Safety Related Performance
 - Performance Assurance
 - Operating Performance
 - Communication
- Supports application for Licence Renewal

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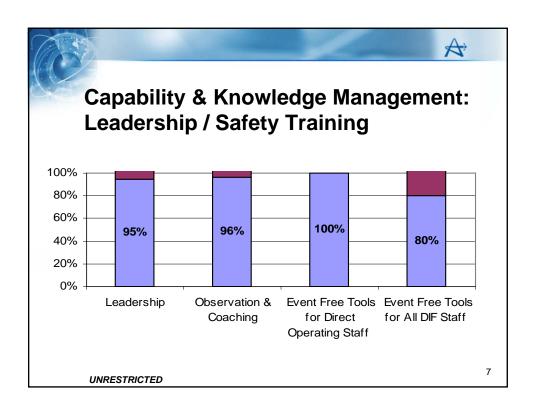


Capability & Knowledge Management: Staff Qualifications

- Sufficient Number of Qualified and CNSC Certified Staff to operate the facilities safely as per the Operating Limits and Conditions:
 - CNSC Certified MAPLE Staff
 - Manager, Operations = 8
 - Reactor Operators = 13
 - Qualified NPF Staff
 - Supervisors = 7
 - Hot-Cell Technicians = 13
 - Update / Refresher Training Provided As Required (e.g. Prior to 5MW Operations)

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Waste Management

- Fully integrated with CRL Site
- Waste Characterization Plan is in place
- Minimal Radioactive Wastes generated in DIF

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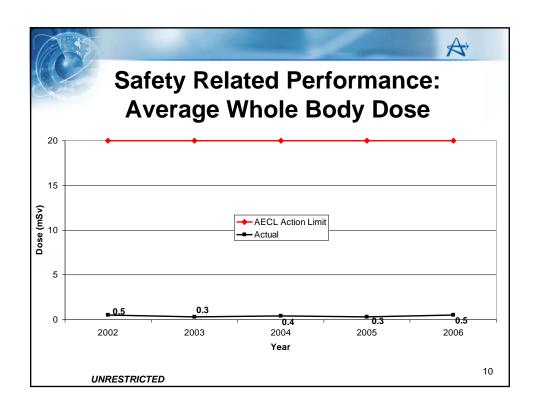




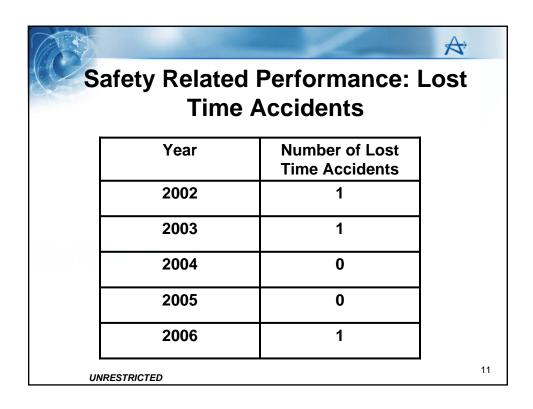
Safety Related Performance

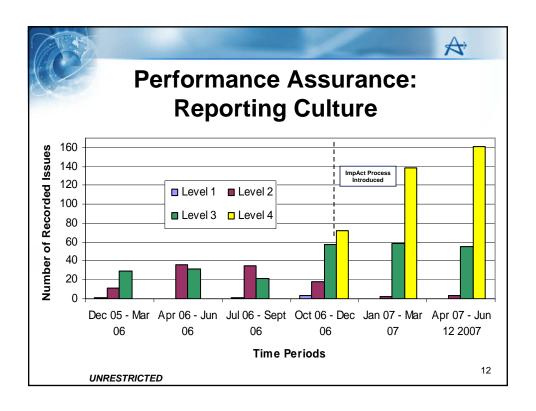
- During the Current Licence Period in DIF:
 - No Personal Contamination Events
 - No Occurrences of Loss of Contamination Control
 - No Unplanned Radiation Exposure to any Personnel
 - Air and Liquid Effluent Sampling Programs are Established and in place
 - Did NOT Exceed any Derived Release Limit (DRL)
 - Fire Protection fully integrated with CRL Site
 - No significant issues from Third Party Independent Reviews and Fire Drills Performed
 - In the current licence period there have been zero unsafe faults of Safety Systems

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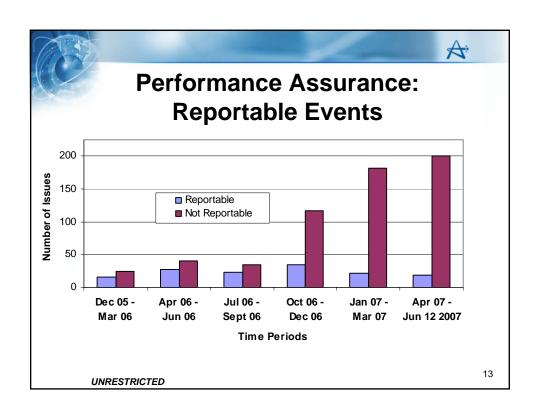


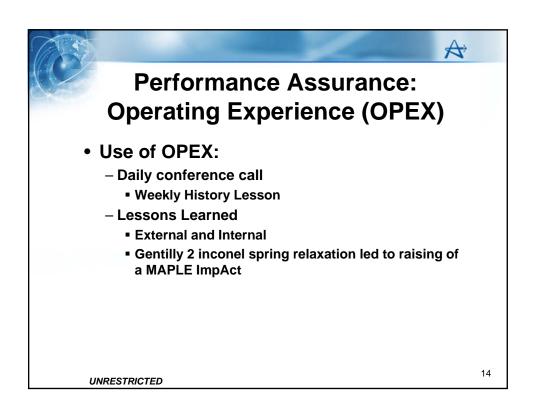




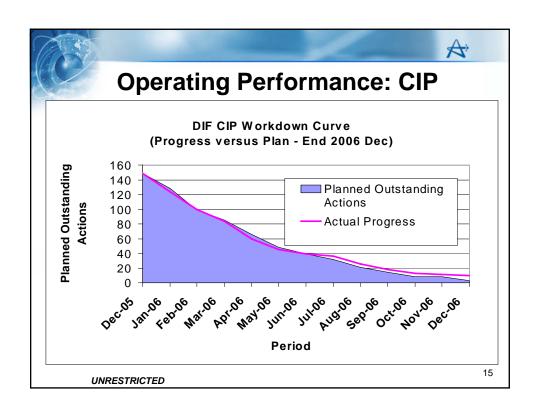


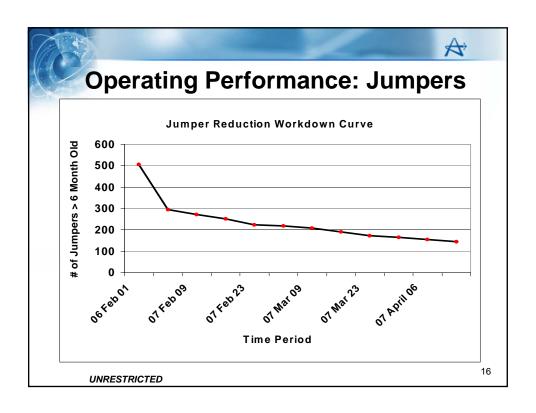
















Operating Performance: Maintenance

Facility	Completion of Operator Routines	Completion of Operator Test Procedures	Completion of Reliability PMs
MAPLE 1	100%	100%	100%
MAPLE 2	100%	100%	100%
NPF	100%	N/A	88%

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Operating Performance Human Performance

- Human Performance Related Events
- Significant Events
 - Cause determined / preventive actions set
 - Senior management oversight for action effectiveness
 - Trending for low significance level events
- Repeat Events
 - Team investigation for significant events
 - Root cause oversight by NLBU senior management
 - Further improvement needed

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Operating Performance CIP Effectiveness

- 95% of actions completed
- Effectiveness of CIP being evaluated
 - Self Assessments
 - Observation & Coaching Results
 - ImpAct Trending
 - Effectiveness Reviews

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Communication

- AECL continues to improve its Public Information Program
 - Environmental Stewardship Council
 - Breakfast meetings with local community residents
 - Regular updates to the AECL website
 - "Contact", a quarterly bilingual community newsletter

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Cancer Therapy and Nuclear Medicine • AECL's Chalk River Laboratories produce about half of the world's supply of short-lived medical isotopes used in 34,000 diagnoses/day.

- Cobalt-60 cancer therapy was invented at Chalk River. Each year, 12 million cancer treatments are administered using Cobalt-60 from NRU (~33,000 treatments/day).
- In other words, EVERY DAY, ~67,000 people around the world receive a direct benefit from our operations, either through medical diagnostics or cancer treatments.





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During the next licensing period, AECL will continue to:

- Safely operate DIF
- Resolve technical issues
- Implement improvement programs
- Meet all regulatory criteria

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