



Supplemental Information in Support of Licence Renewal for the New Processing Facility

Public Hearing Day 2



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AECL
Atomic Energy
of Canada Limited

EACL
Énergie atomique
du Canada limitée



Introduction

- **This presentation addresses requests from the Commission at the Public Hearing Day One**
- **Detailed information on the Project work and licensing commitment schedule in support of the application for two-year licence renewal**



Presentation Outline

- **NPF Operations Staffing Levels**
- **NPF Training Program**
- **Clarifications on Dose to Workers**
- **Overview of Work in NPF**
- **NPF Improvement Activities**
- **NPF Work Schedule**
- **Schedule of Licensing Issues**
- **Update on Small Diesel Generator**
- **Document Baseline**
- **Summary**



NPF Operations Staffing Levels

- **Staffing levels are sufficient for non-nuclear operations and commissioning activities**
- **Sufficient staff are in training for active commissioning**
- **Additional staff are being recruited for production phase**



NPF Training Program

- **Hot Cell technicians and supervisors training:**
 - Refresher training continues as required to support maintenance of skills and knowledge
 - Update training will address changes to system equipment and processes



Clarifications on Dose to Workers

- Dose to support staff is from work in other CRL facilities
- Dose to NPF staff is consistent with background levels at CRL



Overview of Work in NPF

- **Completed NPF inactive test program:**
 - June 2000
- **On-the-Job Training for first group of Hot Cell Technicians:**
 - June 2000 - Oct 2002
- **Integrated Test on NPF:**
 - Oct 2002 - Nov 2003
- **Addressing performance and maintenance issues and operational improvements:**
 - June 2000 - present



NPF Improvement Activities

- **Improved decladder performance for Target Processing**
- **Improved overpressure protection for Central Off Gas Delay System**
- **Testing and developing methods to increase throughput for Calcination and Cementation Systems**
- **Design changes in progress for Closed Loop Cooling System**
- **Balancing room pressures and air flows for Active Ventilation System**



NPF Work Schedule



The "work schedule" contains significant uncertainties associated with the availability of MAPLE 1 to provide irradiated targets because of the positive Power Coefficient of Reactivity.



Schedule of Licensing Issues

Licensing Issue	Target Date
Update to FSAR (partial)	Apr. 2006
Commissioning of Small Diesel Generator	Jun. 2006
Backup Firewater Cooling Test of CLCS	Jun. 2006
Implement Seismic Walkdown Findings	Sep. 2006
Operational Readiness Work Activity Plan	Dec. 2006
Commissioning Demonstration of Design Intent	Jun. 2007



Update on Small Diesel Generator

- **Small diesel generator procured and installed**
- **Approval for inactive commissioning requested**
Note: Plan is to complete small diesel generator commissioning before start of NPF active commissioning
- **Active Ventilation System reliability issue considered closed with procurement and installation of a small diesel at NPF**



Document Baseline

- **DIF Operations document baseline has been issued**
 - Sufficient documentation will be provided in the control area before start of active commissioning



Summary

- Addressed information requests from the Commission at the Public Hearing Day One
- Done significant work to improve NPF systems' performance
- Provided updates on status of licensing issues
- Committed to safe operation as required by each licensing holdpoint
- Applying for a two-year licence





List of Acronyms

CCA	Commissioning Completion Assurance
CLCS	Closed Loop Cooling System
CRL	Chalk River Laboratories
DIF	Dedicated Isotope Facilities
HAZOP	Hazards and Operability (Study)
NPF	New Processing Facility