APPLICATION TO AMEND CRL LICENCE TO PERMIT NRU OPERATION TO JULY 31, 2006

Canadian Nuclear Safety Commission Hearing Paul J. Fehrenbach 2005 October 18

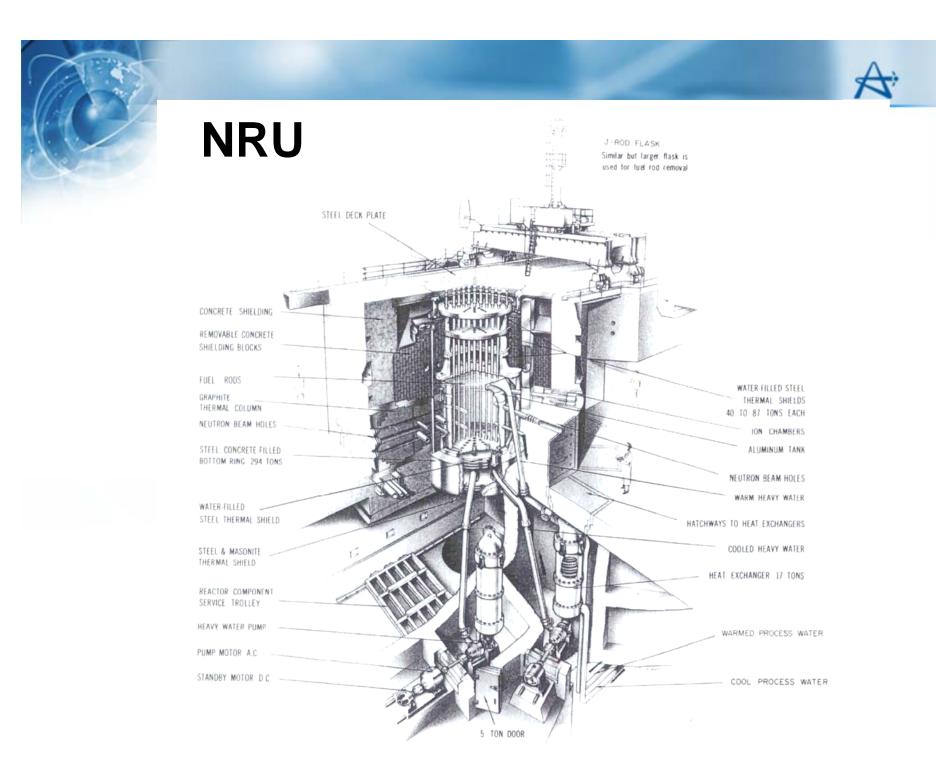




Purpose

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- To amend licence condition requiring NRU shutdown
 - From 2005 December 31
 - To 2006 July 31
- Request for longer-term operation at a hearing (before 2006 July 31)



Basis for 7-Month Extension

- Sound condition of the facility
- Good record of safe operation
- Safety improvements
 - Engineered safety features
 - NRU Improvement Initiative
- Progress on support for longer-term operation

Condition of Facility

- Comprehensive Aging Assessments
 - Inspection and/or assessment of critical systems complete
 - Excellent prognosis for next 10-20 years of operation
 - Ongoing inspection, maintenance and replacement to support fitness for service

Record of Safe Operation

- Worker doses well below limits
- Environmental releases small fraction of limits
- Good worker safety record
- Reportable events trending down – Increase during 2004 being addressed

Safety Improvements – Engineered Safety Features

- Safety upgrades
 - Qualified Emergency Response Centre (1996)
 - Second Trip System (1997)
 - Liquid Confinement/Vented Confinement (1999)
 - Main Pump Flood Protection (2000)
 - Qualified Emergency Water Supply (2002)
 - New Emergency Core Cooling System (2005)
 - Emergency Power Supply (2005)

Safety Improvements – NRU Improvement Initiative

- Progress on short-term activities
 - Housekeeping/fire protection
 - Industry methods to prevent events
 - Reactor restart policy
 - Operational Decision Review Panel
 - Daily reactor operations meeting
 - Three-way communications
 - Additional resources
 - Power plant visits

Longer-Term Operation

- Review against modern standards
 - IAEA Guide NS-G-2.10
 - Gaps being addressed
 - Severe accident assessment
- Safety upgrades
- Aging Management Program
- NRU Improvement Initiative
 - Processes, people
 - Prevention of events due to human performance errors

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Conclusion

- 7-month extension supported by
 - Sound condition of the facility
 - Record of operation
 - Implemented safety improvements
 - Continuous improvement
 - Good progress on activities to support longer-term operation



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