



**Chalk River Laboratories  
Site Licence Renewal  
Hearing Day Two  
2006 June 28**





# Outline

- **Information requested at Day One**
- **Update on NRU**
- **Information regarding intervener CMDs**
- **Other items:**
  - **Environmental Stewardship Council, and**
  - **Draining of NRX bays**



# Day One Follow-Up Information

- **Legacy quality assurance and lower tier quality assurance documents**
- **Systematic Approach to Training schedule.**
- **Proposed new licence conditions**
- **Plume downstream of NRU**
- **Argon-41**
- **Non-radiological liquid effluents**
- **Université Laval report**
- **2005 AECL Annual report**
- **Ecological Effects Review**
- **NRU material analysis**



# NRU Update

- **Submission to address all 11 short-term criteria for continued operation of NRU**
- **Response to CNSC inspection of NRU safety upgrades**
- **NRU Improvement Initiative**
- **Plume downstream of NRU**
- **Pressure boundary**



# **Information Regarding Intervener Comments**

- **Legacy waste management**
- **Environmental assessments**
- **Environmental issues**
- **Resource levels**
- **Decommissioning cost estimate**
- **Radioactive material in Ottawa River**



## **Information Regarding Intervener Comments (Cont'd)**

- **Fissile Solution Storage Tank (FISST)**
- **Reporting of radiation exposures**
- **On-site water supply**
- **Building 250**
- **Public consultation**



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## Team CANDU Applauds Ontario's Decision



*June 13* - Team CANDU applauds today's announcement by the Government of Ontario. The Government has spelled out a plan to meet the Province's electricity needs and Team CANDU is confident it can play the role government envisions for it, particularly in regards to delivering nuclear facilities on time and on budget. [More](#)

## Major international contract won



*June 07* - AECL today announced that it has been awarded a major contract by Korea Hydro & Nuclear Power Co., Ltd. (KHNP) for the retubing of the Wolsong 1 CANDU 6 nuclear reactor. [More](#)

## Government of Canada announces long-term strategy and plan



*June 02* - AECL Moving Forward With Canada's New Long-Term Strategy for Decommissioning and Waste Management - Funding for the new long-term strategy was announced today by the Honourable Gary Lunn, Minister of Natural Resources Canada and amounts to \$520 million over the next five years. [More](#) / [View webcast](#)



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**Did you know**  
 AECL's CANDU 6 (700 megawatt class) reactors are operated in five countries on four continents by six different utility customers. Three of the CANDU 6 units rank in the world's top 10 reactors by lifetime performance.



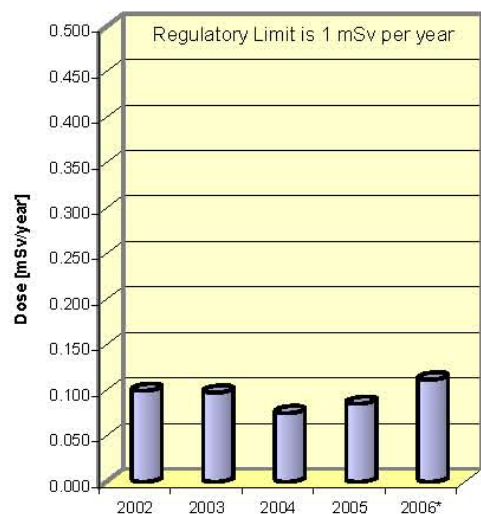
## Radiation Exposures to the Public (total maximum allowable limit = 1 mSv/year)

The dose of radiation is expressed as *millisieverts (mSv)*, an internationally accepted unit for measuring radiation and its biological effects.

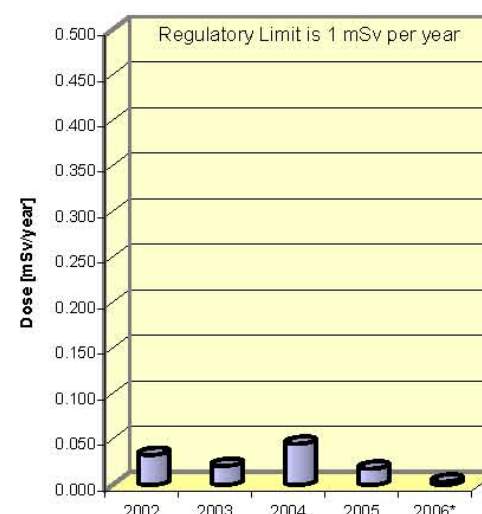
Total radiation exposure is calculated to identify the maximum possible radiation exposure that a person living at the Chalk River Laboratories boundary would receive if they constantly breathed the air, drank the water and ate the fish from the site. The actual exposure to neighboring communities is considerably less than the limit and decreases rapidly with distance from the site. The CNSC regulatory public limit excludes exposures from natural background and medical applications.

Typically, Canadians receive between 2 and 4 mSv per year from a number of sources shown below.

Airborne Effluents



Liquid Effluents



\*Data for 2006 are estimated from the average of weekly release monitoring data to date, not environmental impact monitoring data, and thus represent a predicted annual dose. The actual annual dose may be lower or higher than shown.





## **Other Items**

- **Environmental Stewardship Council**
- **Draining of NRX bays**

