



**Powering  
THE FUTURE**

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**POINT LEPREAU REFRUBISHMENT**

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As most of you are aware, on July 29, 2005, the Government of New Brunswick announced that NB Power would proceed with the refurbishment of the Point Lepreau Generating Station (PLGS). Atomic Energy of Canada Limited (AECL) was chosen to be the general contractor for this major project.

The refurbishment of PLGS is an important project for New Brunswick. It will ensure the safe and reliable operation of the nuclear generating station for an additional 25 to 30 years. It will also provide security and diversity of fuel supply. It will minimize risks to the environment and from a socio-economic perspective, it will allow us to maintain a highly-trained, skilled workforce within southern New Brunswick.

On behalf of NB Power Nuclear, AECL and all of our employees, it is our pleasure to present this inaugural newsletter. The purpose of this quarterly newsletter is to keep our closest neighbours and provincial stakeholders informed on the status of the refurbishment. We are committed to open communications with the community throughout the project. For additional information, visit us online at <http://poweringthefuture.nbpower.com>.



**Énergie NB Power**

Nucléaire Nuclear



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PLGS is the key to Powering the Future of New Brunswick. NB Power Nuclear and AECL are working together to ensure that the refurbishment project is executed on time and on budget. We have the people, the resources and the proven track record to make certain that the refurbishment is completed successfully, that the station continues to run safely and reliably both pre-refurbishment and post refurbishment and that NB Power Nuclear achieves world-class performance of its station throughout the project.

Sincerely,

Gaëtan Thomas  
Vice-President  
NB Power Nuclear

Ken Petrunik  
Senior Vice-President and  
Chief Operating Officer, AECL

## CURRENT ACTIVITIES

Having received the formal project approval, NB Power Nuclear will undertake the detailed design and outage-planning phase leading to the refurbishment outage that will begin in the spring of 2008.

AECL's office at 430 Bayside Drive, Saint John, NB, has been operational since mid-January. They now have 28 full-time staff, 23 of which have been recruited locally.

Construction of the new Solid Radioactive Waste Management Facility, to support refurbishment and the extended operation of the station, commenced in April. The construction activities are governed by a detailed environmental protection plan which will be monitored throughout the construction period.

The Canadian Nuclear Safety Commission (CNSC) will hold the Day 2 Hearing on the application by NB Power Nuclear for the renewal of its licence to operate the Point Lepreau Generating Station. The hearing will be held in the CNSC Public Hearing Room, 14th floor, 280 Slater Street, Ottawa, Ontario and via videocon-ference at the Delta Hotel, 39 King Street, Saint John, New Brunswick on May 18, 2006. Following the Day 2 Hearing, the Commission members withdraw to consider their decision.

## REFURBISHMENT TIMELINE

### 2000 *Phase 1*

#### DEFINE SCOPE AND COST

- Define Scope and Cost
- Condition Assessment Study
- Contract Framework with Atomic Energy of Canada Limited

### 2002 *Phase 2*

#### EARLY START ACTIVITIES

- Regulatory Processes
  - Public Utilities Board
  - Canadian Nuclear Safety Commission
  - Department of Environment and Local Government
- Dr. Robin Jeffry Review

### 2005

- Preliminary Engineering for Risk Reduction
- Province of New Brunswick Approval

#### PROJECT APPROVAL

- Detailed Engineering and Procurement

### 2006

#### PRE-OUTAGE CONSTRUCTION

- Site Preparation - Construction of Waste Management Facilities and Temporary Facilities
- Completion of Detailed Engineering
- Material Procurement and Delivery

### 2008 *Phase 3*

#### START OF PLANNED MAINTENANCE OUTAGE

- Planned Maintenance Outage April 2008 to September 2009

#### COMPLETION OF PLANNED MAINTENANCE OUTAGE

### 2010

## WHO IS AECL ?

Atomic Energy of Canada Limited (AECL) is a fully integrated nuclear technology and services company providing services to nuclear utilities worldwide. With 4,000 employees they are dedicated to delivering leading edge nuclear services, R&D support, design and engineering, construction management, specialized technology and waste management and decommissioning in support of CANDU reactor products.

AECL is committed to supporting their Canadian and international customers in all aspects of nuclear power technology management. They provide on-site expertise, closely supported by our nuclear science laboratories, testing capability and engineering facilities. CANDU reactors supply about 16% of Canada's electricity and are an important component of clean-air energy programs on four continents. AECL is a crown corporation that was established in 1952 to develop peaceful applications of nuclear energy.

## PROJECT TEAM PROFILES

### *Project Leaders*



#### **NB POWER NUCLEAR**

**ROD EAGLES** - *B.Sc. Eng., P. Eng.*

As Director of Refurbishment Rod is responsible for the overall Project accountability including, managing all aspects and all phases of the Refurbishment Project including adherence to the scope, cost and schedule requirements, oversight of the general contractor (AECL), and informing the NB Power Executive of the Project's status and progress.



#### **ATOMIC ENERGY OF CANADA LIMITED**

**DAVID SCOTT** is AECL's General Manager, CANDU 6 Refurbishments and Project Director for the Point Lepreau project.

David joined AECL in 1974 as an operator at the Chalk River facility before transferring to Engineering Research. Over his career, David has gained extensive experience on the design of the CANDU reactor.

## CONTRACTS AWARDED SINCE AUGUST 2005

**Arvin Machine Works Inc. of Miramichi for constructing seven fuel channel mockups to be used for testing and training.**

**Nu-Tech Precision Metals of Arnprior, Ontario for the fabrication of the Pressure Tubes. Nu-Tech is the sole Canadian supplier of these very specialized nuclear components.**

**Opron Maritimes Construction of Saint John for the civil portion of the Solid Radioactive Waste Management Facility, on site at the Station.**

**Sunny Corner Enterprises, Miramichi City for the mechanical components for the Solid Radioactive Waste Management Facility.**

**x-Wave of Saint John, an Aliant company for the information technology installation and service requirements for the AECL office.**



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For more information  
on the Point Lepreau  
Refurbishment project  
visit our website at  
<http://poweringthefuture.nbpower.com>  
or call our toll-free  
project information line at  
1-866-754-7727.



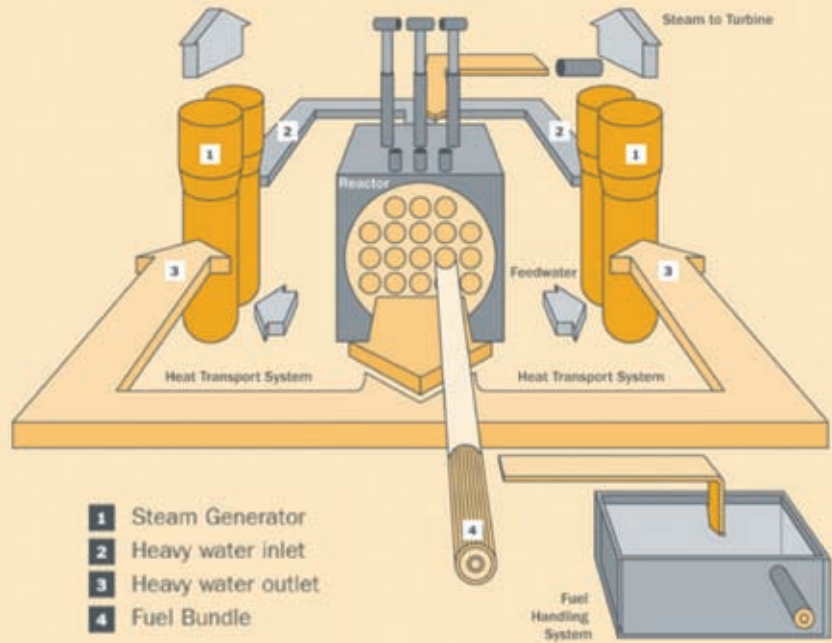
## COMMITTED TO SAFETY

NB Power Nuclear recognizes that safety is the highest priority at the Point Lepreau Generating Station which translates into three aspects:

1. Safe working environment for employees
2. Protection of the public and the environment
3. Safety of the reactor operation

The focus on operational excellence and world-class performance during the execution of the refurbishment project is to ensure that work activities are planned, managed and performed in a safe manner and in compliance with legal requirements, station standards and project procedures.

## AN INSIDE LOOK AT THE REACTOR



## FREQUENTLY ASKED QUESTIONS

### How much will the refurbishment of the Point Lepreau Generating Station cost?

The estimated cost of the refurbishment project, including the purchase of replacement electricity, is \$1.4 billion.

### What does this mean in terms of jobs?

Approximately 1,500 people (including NB Power Nuclear and AECL staff) from a variety of vocations will be required for the construction phase of the project.

### How long will the station run once refurbished?

The Point Lepreau Generating Station is expected to run another 25-30 years once refurbished.

