



Powering THE FUTURE

POINT LEPREAU REFRUBISHMENT

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It has been over a year since the announcement was made that NB Power would proceed with the refurbishment of the Point Lepreau Generating Station (PLGS). To date, the project is well underway, with activities proceeding on time and on budget.

We have achieved several milestones in the project since our last issue of 'Powering The Future'. These include:

- Approval from the Canadian Nuclear Safety Commission for the renewal of the Point Lepreau Generating Station's Power Reactor Operating Licence.
- The ordering of many key materials needed for the project including pressure tubes, calandria tubes, end fittings and feeder materials.
- The awarding of contracts to many New Brunswick companies such as OPRON Maritimes Construction of Saint John, Arvin Machine Works Inc. of Miramichi, Sunny Corners Enterprises of Miramichi City and xwave of Saint John.
- The start of construction of the new administrative building.
- The completion of the annual planned maintenance outage in June 2006, which included preparation for the 2008 outage.
- The addition of project staff at both NB Power Nuclear and AECL.
- The establishment of the AECL office at the former Saint John Shipbuilding site in January 2006.
- The start of construction of the Solid Radioactive Waste Management Facility (SRWMF) extension.

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- Construction of the SRWMF extension
- New administrative building



Énergie NB Power

Nucléaire Nuclear



The SRWMF extension, which began construction on April 3rd, 2006, is required to handle the waste resulting from retubing the reactor and the fuel from the extended operating life. In this issue, we provide an update on the progress made and photos of the construction site. Construction is also progressing on our new administrative building which is expected to be occupied by July 2007.

Thank you again for your involvement and interest in the Point Lepreau Generating Station Refurbishment Project. We encourage you to visit the 'Powering the Future' website at: <http://poweringthefuture.nbpower.com> for further information and updates as we move closer to the refurbishment outage.

Sincerely,

Gaëtan Thomas
Vice-President of
NB Power Nuclear

Ken Petrunik
Senior Vice-President & Chief Operating Officer
of Atomic Energy of Canada Limited, AECL

Company Profile: OPRON INC.

OPRON Inc., established in 1972, is a leading construction company with operations in Quebec, New Brunswick, Alberta and Nova Scotia.

On March 22, 2006, we issued a contract to OPRON for the modifications to the Solid Radioactive Waste Management Facility (SRWMF) for the Refurbishment Project.

OPRON will be conducting the following activities:

- ground preparation for the waste storage structures – cutting and clearing of brush – rock removal and fill for the waste site expansion
- foundations and fencing in of the waste storage area
- construction of seven vault compartments for the level 1 and level 2 waste
- construction of five canisters for the level 3 waste

For further information on OPRON and a full listing of their current projects, please visit their website at www.opron.com.



From left: Jean Brideau, OPRON Superintendent, Vince Edgett, PLGS Project Facilities Supervisor and Marcel Arseneault, AECL SRWMF Site Supervisor.

MEET THE TEAM

NB POWER NUCLEAR



ROD EAGLES
Director of Refurbishment



PERRY CHEEKS
Project Controller



LEE DELONG
Quality Assurance Representative



CHARLES HICKMAN
Licensing Manager

NB POWER NUCLEAR



DON SINCLAIR
Project Manager



JOHN COLE
Senior Labour Advisor



DAVID SCOTT
Project Director



JIM AKEROYD
Director, Site Implementation

AECL

AECL



ALAN BENTON
Quality Assurance Manager



JOHN BRAKE
Manager, Health Safety and Environmental



BILL COOPER
Field Engineering Manager



DOUG ELLACOTT
Project Manager Site Facilities/ Tooling



JOHN NAUGLER
Site Purchasing Co-ordinator



CLAIR RIPLEY
Communication/ Liaison Officer



TOM BEESE
SRWMF Project Manager



BRUCE MORRISON
Materials Manager

PROJECT TEAM PROFILE:

JIM AKEROYD,  **AECL**



JIM AKEROYD joined the AECL CANDU 6 Refurbishments Team as Director of Site Implementation for the Point Lepreau Generating Station Refurbishment Project.

Jim has over 30 years experience in leading project management positions in the nuclear industry, including expertise in CANDU steam generator design and field service, engineering, custom manufacturing, project management, power plant field service and construction solutions.

Before joining AECL, Jim was Manager of Nuclear and Vice President (International Service and Construction) at Babcock & Wilcox Canada. Prior to that he was President of Altran Corporation in Boston, MA, an engineering consultancy specializing in classical engineering analysis, laboratory analysis of material failures, and client product development projects.

Jim has provided consulting services to Ontario Hydro, AECL and nuclear industry suppliers and project managed outage services at Bruce Nuclear and Gentilly-2.

He holds a Master of Business Administration (MBA) from Wilfrid Laurier University in Waterloo, Ontario; a Bachelor of Science (B.Sc.) in Mechanical Engineering from the University of Waterloo and a Mechanical Engineering Diploma from the Ryerson Polytechnic Institute in Toronto, Ontario.

As the Director of Site Implementation, Jim is committed to ensuring that refurbishment is completed on time and on budget. To achieve this, he has hired a diverse staff comprised of both experienced professionals and many recent graduates from New Brunswick universities and community colleges. He sees a great future for the nuclear industry both within Canada and worldwide and it is his hope and belief that New Brunswick will play a defining role in upcoming refurbishments and new builds.

CONSTRUCTION OF THE NEW ADMINISTRATIVE BUILDING

The construction of a new administrative building adjacent to the Point Lepreau Generating Station is underway. The excavation phase of the project is now complete. Construction of the foundation, footings and the building structure is underway. The new building is expected to be occupied by the summer of 2007.



PROJECT MILESTONES

August 2006

The completion of the concrete work for the new vaults in the SRWMF Phase I extension, which will be used to store low and medium level waste generated at the station.

November 2006

The completion of the foundation, footings and the building structure for the new administrative building.

December 2006

The completion of the construction of the SRWMF extension by December 31st, 2006, with some of the mechanical and commissioning work continuing into 2007.



**Powering
THE FUTURE**

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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.



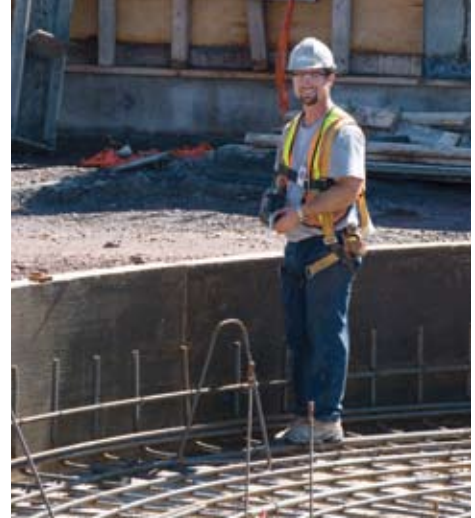
PROJECT UPDATE

CONSTRUCTION OF THE EXTENSION OF THE SOLID RADIOACTIVE WASTE MANAGEMENT FACILITY

The construction of the extension of the Solid Radioactive Waste Management Facility (SRWMF) is progressing well. The SRWMF extension is required in order to store waste created during refurbishment and the extended operation of the station. Construction activities began on April 3rd, 2006 and the construction work is expected to be completed by December 31st, 2006, with some of the mechanical and commissioning work continuing into 2007.

There are three types of waste that will be generated from the refurbishment work of varying radiation levels – levels 1, 2 and 3:

- Levels 1 and 2 waste will be stored in vault compartments (two feet in thickness), which will hold steel boxes and other waste containers. Examples of levels 1 and 2 waste include used tooling and compactable contaminated material, as well as contaminated feeder hardware and pipes.
- Level 3 waste will be stored in up-right reinforced concrete canisters, called ‘retube canisters’ (four feet in thickness). Examples of level 3 waste include waste from the reactor core, such as the calandria and pressure tubes.



There are construction activities in three areas of the site:

- **Phase I extension - low and intermediate waste (levels 1 and 2)**
- **Phase II extension – future dry fuel canister (level 3)**
- **Phase III extension – retube waste structures (level 3)**



We have successfully completed the construction of the new vaults in the Phase I extension. In the Phase III extension, the pouring of concrete for the first canister has been completed and the steel liners have been installed. Work on the remaining canisters will continue into mid October 2006.