



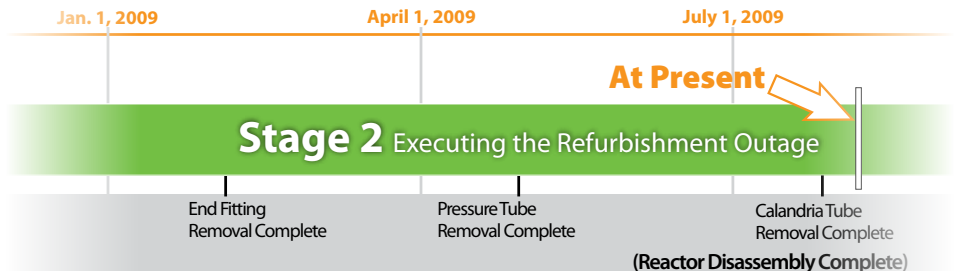
# Refurb Report



July 27, 2009

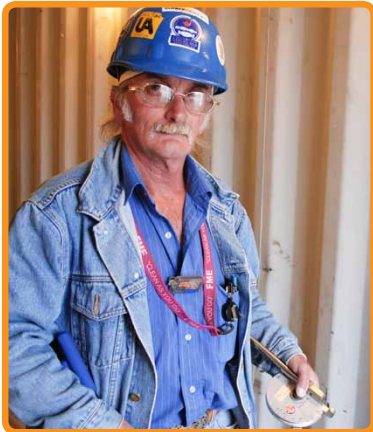
## Safely and Successfully Completed

- ✓ Feeder Removal Complete
- ✓ End Fitting Removal Complete
- ✓ Pressure Tube Removal Complete
- ✓ Calandria Tube Removal Complete



## Significant milestone achieved

Our dedicated workforce has accomplished another significant milestone in the Point Lepreau Generating Station Refurbishment project. The 380<sup>th</sup> and final calandria tube was removed from the reactor, marking the end of the reactor disassembly. The disassembly process is one of the most challenging parts of this stage of the project. Over 50 complex first of a kind tooling devices were developed specifically to safely remove all components from the Point Lepreau CANDU-6 reactor vessel.



Moyle Stewart, Local 213

“The project is a learning experience for all of us and we are applying the lessons learned as we progress with the re-assembly of the reactor,” says Gaëtan Thomas, Vice President of Nuclear. “This is the first of the world’s fleet of CANDU-6 reactors to undergo a refurbishment of this nature. Our employees and supplemental staff commitment to safety is second to none, and given the amount of activities that are taking place, our safety record continues to demonstrate that our workforce’s common goal is safety first.”

This project brings together a workforce from all over the world. We are fortunate to have the experience and expertise of workers who were here during the original construction of the Point Lepreau Generating Station (PLGS) and have now returned to play an integral role in the refurbishment of the Station. Moyle Stewart, pipefitter, began working as a contractor at PLGS in 1978 and returned in January 2009. As a member of the pipefitter team from Local 213, he is involved with the replacement of approximately 6000 feet of tubing all over the reactor building. Technology has certainly evolved since the original construction. Specialized tooling has been developed and modified in order to enhance the installation and the bending of this tubing.

“It’s ironic that I started my career at PLGS when they were first getting ready to start up – and now, with three years left to retirement, I get to work here for a second time, refurbishing for the next generation.” says Moyle Stewart.

## Retube Update

The next important step is the inspection of the reactor vessel. The reactor vessel is the component that contains all the pressure tubes and calandria tubes. The inspection is a very complex and thorough process. It will be executed using robotic tooling, which will be inserted into the reactor vessel to perform visual inspection of the vessel surfaces and internal equipment. Once complete, our next job is to re-assemble the reactor component safely and in a quality manner in order to operate the Station in world-class way for the next 25 to 30 years.

The first shipment of replacement feeders arrived at the Point Lepreau Generating Station in June and the feeders are currently staged for installation in the reactor building. Feeder pipe installation has commenced with placement and welding of the pipes inside the reactor.

## Turbine and Main Generator Update

In early July, 2009, the two remaining low pressure turbine rotors safely completed their journey back from the United Kingdom. The rotors were unloaded at the Port of Saint John and were transported by barge to Duck Cove where they were brought into the turbine building and are being reinstalled. It is a great success to have these new turbine rotors at the station as they will improve the overall turbine efficiency and produce an additional 25 MW of power. The main generator rotor was inserted in its permanent location inside the generator stator and work to complete the installation activities is continuing (see picture).



For further information or updates, please visit the Powering the Future website at <http://poweringthefuture.nbpower.com/en/default.aspx> or contact NB Power at 1-866-754-7727.