

To address the impacts of above findings, a team of OPGN staff from NSATD (**Wie Liauw, Yuksel Parlatan and Mike O'Neill**), Technology & Research (**Kazem Rassouli**), NSS, AECL and Stern Lab was formed to prepare and implement an action plan including the following:

- Hold meetings with the CNSC to discuss the new findings and their implications.
- Perform a preliminary impact assessment and recommendation for interim actions.
- Conduct a third party independent review of the 28-element CHF and PDO experiment.
- Initiate and complete Discovery Issue Process Resolution (DIRP) as outlined in the following activities.
- Assess ASSERT prediction for predicting dryout power and its location compared to test data.
- Compare dryout power (test

data/prediction) for relevant NOP conditions for SL data and CU correlations and document the results.

- Perform NOP sensitivity analysis to determine the “exact” reduction in trip set-points of PA/PB for NOP analysis due to new data using BLA (Boling Length Average) CHF correlation based on the SL test data and the enhance NOP methodology.
- Demonstrate that existing PDO methodology is bounding with respect to SL PDO data.
- Demonstrate that other design base accidents (PA/PB) are not adversely impacted, due to SL CHF data.
- Develop long term strategies/plan for a complete impact assessment on existing safety analysis.
- Develop new CHF Correlation with SL data
- Implement and test the BLA and FCL CHF Correlations based on SL 28 e-bundle CHF test data and release special version of TUF.
- Perform TUF sensitivity analysis for PA & PB NOP analysis using SL+BLA CHF Correlation & enhanced NOP methodology as appropriate.

The DIRP package together with the NSS impact assessment report with BLA-CHF analysis, the SL report and PB NOP

analysis has been submitted to the CNSC. The process concluded that the SL data is sound, given the advance instrumentation and consistency of the results. The SL CHF data is therefore accepted by OPGN and has been used to develop CHF correlation to be used in future safety analysis. The new correlation has resulted in lower NOP set-point. However, based on the NOP analyses of PA and PB, using a new and more realistic methodology, there are adequate safety margins for continued full power operation.

This new NOP methodology is currently being reviewed by the CNSC staff. Once the new NOP methodology has been accepted, OPGN will request the CNSC for the removal of the penalty on the PA/PB reactor power and hence returning the NOP trip set points to their previous values.

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**Pickering-A Unit 1 Feeder FOLTMs Installation**  
by Elton Tong

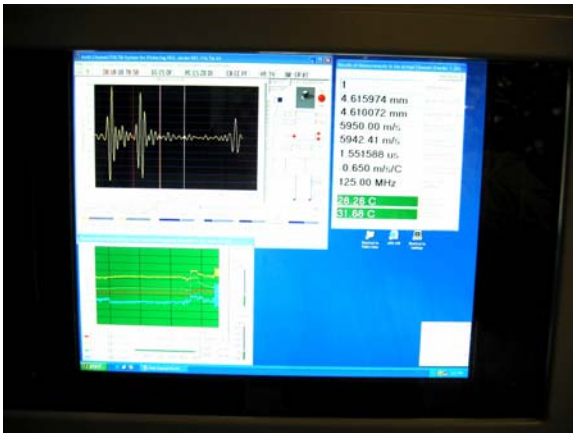
The Feeder On-Line Thickness Monitoring System (FOLTMs) was successfully installed and commissioned in November during the P711 outage in 2007. Installation was completed a week ahead of the planned schedule committed in the Business Case Summary. The FOLTMs is intended to collect pipe thinning data from 22 selected feeder channels from the west reactor face of Unit 1. A remote access computer terminal will be able to download the collected data for analysis. Results from

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FOLTM Probe on P1 West Reactor Face

analysis of these data will provide a clearer picture of actual pipe thinning rates from these channels in the next 6 months. This information will play an important role in solidifying the Pickering-A Feeder Replacement schedule.



FOLTM Output Display Monitor

The goal of the project is to allow reduction or optimization of the number of feeders requiring replacement leading to significant saving in OM&A costs for Pickering A.

The successful installation of the FOLTM is attributed to good team work from very many departments, contractors and support services from across the organization. This success would not have been possible without crucial support at critical moments from Pickering A Outage organization (**Lou Haghverdian, David Pasternack and Denise Nolte**), Procurement Engineering (**Anan Bhatt**), Supply Chain (**Kay Ahn**), Components and Equipment (**Olev Lepik and Bill Lee**), ALARA Section (**Kirk Schwartzkopf**), Radiation Protection (**Renard Vanzentten, Anita Bergstrom and Jim McNeil**), CMO (**Doug Auston**), IMS (**Tony Fenuta and Keith Brown**) and Field Engineering (**Paul Larin and Claude Belair**). Our design agency Wardrop Engineering (**Sharon Maddock, Thuriya Hasson and Gary Wicks**), equipment vendor and expert consultant team from Research Productivity Council (**John Aikens, Pawel Kielczynski and Brian Bell**) and AECL (**Jarek Goszczynski**), key installation contractors Murray's Electrical and Mechanical Contractors Corporation (**Herb MacDonald, Ron Bertie and Travis Beleskey**) and Crosby/Black and MacDonald (**Andy Schweppers and Richard Robertson**) all played key roles and contributed to the successful outcome. It is hard to imagine that for a small project like FOLTM, we had 110 entry counts on our Radiation Exposure Permits for

personnel directly supporting our installation work over a 4 day period. There are also many others who contributed to the success of this project and have not been recognized in this article. To the teams of other people supporting this project, we are indebted and thankful for their contribution. I also had an opportunity to share my feedback with the Contract Management Office, Field Engineering and contractor folks in a post-job debrief session.

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**CCD Organizational Announcement**  
*By Peter Sharawy*

In order to sustain OPG's Security System Design and System Engineering capability, an organizational change has been made whereby the Design and System Engineering functions for the Security Systems at all Nuclear Sites have been consolidated within the Computers and Control Design (CCD) Department under **Peter Sharawy's** recently renamed Section, the Security and Special Projects (SSP) Section. (Peter also retains responsibility for the various sub-projects which comprise the DCC Aging Management Project plus follow-on work from the Design Basis Reconstitution Project.) Effective January 3, 2008, the staff performing the System Engineering functions, **Jin Hong** and **Shiva Shivakumar**, have joined the CCD Department, and **Suzie Ho** is assuming the Systems Engineering functions at

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