(1) ALARA for Canadian Nuclear Plants
(2) Ontario Power Generation ALARA Plans for Pickering/Darlington
Mr. Scott Cameron (Pickering NPP, Canada)

This is a presentation concerning the ALARA performance at a nuclear power plant of the OPG, Canada and concerning the removal of the radiation source of Boiler 6 of Pickering A Unit 4. The OPG conducts the following as measures for dose rate reduction:

- The adoption of a filter with a pore size of 1 μ or less
- Remote monitoring for dose control
- The installation of various types of shielding, such as a water wall
- Decontamination using DECON gel

As for measures for internal exposure reduction, internal exposure by tritium is predisposed to decrease steadily due to factors such as the reduction of leakage from restricting plug and the introduction of a portable dryer.

Since a high rate of surface dose (estimation > 450,000 rem/h) was detected on the cold leg drain line of Boiler 6 of Pickering A Unit 4, it was decided that the radiation source should be removed. Among the methods being considered to remove the radiation source are:

1. Capture by flushing.
2. In case capturing by flushing fails,
   1) Shield Boiler 6 using long arm tools, ropes, etc.
   2) Make a plan to cut out the portion of radiation source during the P1041 shutdown period.
3. If time allows, make a plan to cut out the portion of radiation source during this shutdown period.