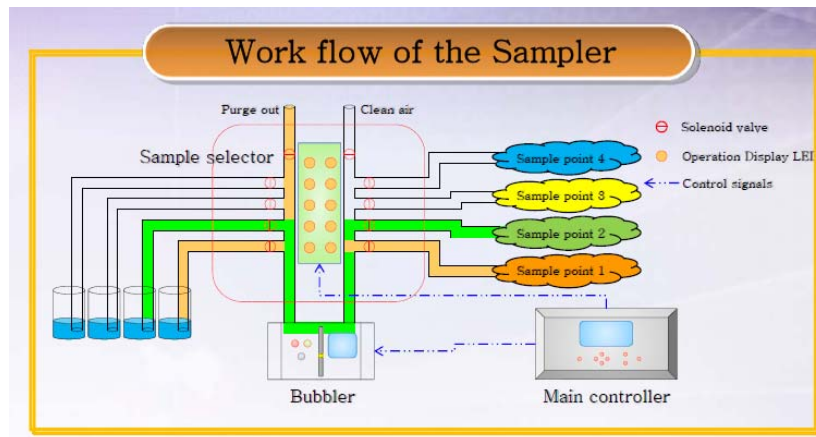


“Summary Automatic Multiple Tritium Sampler”
Young-Seung Lee SAE-AN Engineering Co. (Korea)

Wolsong Plant 1 & 2 are CANDU-type reactors. Tritium sampling of multiple points needs equipments those are able to sample automatically with the setting time.

Application tests of Automatic Multiple Tritium Sampler (AMTS) as shown below have been performed.



Conclusions and expectations are as follows:

- It expects the shorter time to sample with the AMTS.
- More than 2 sampling positions can concentrate a same area.
- It is possible to sample and to purge periodically according to the setting time and the setting procedure.
- When heavy water leakage would occur, it can sample on the various areas within the shorter time and takes any actions quickly for emergency situation.
- It is possible to observe quickly around the suspected heavy water leak point.

Future plan includes improvements of simultaneous sampling function, portable function, data storage function, and TAM function.