"Topical Aspects on Monitoring Airborne Radioactive Effluents from NPPs" Wan-tae Kim, KINS, Korea

Discussion concerning the present situation and the future ideal situation of the monitoring of airborne radioactive substances. Issues and matters to be considered in relation to the monitoring of airborne radioactive substances are as follows.

- The ratio of outflow/sampling flow rate is so large at 1000 to 100000, that it affects the sample quantity and the detection sensitivity.
- There are inconsistencies among the outflow/sampling flow rate, the collected particle count, and the detection limit.
- Discharge paths provided longer than necessary with too many branches affecting the sampling of particles.
- Information about sampling places, nozzles, and discharge paths are lacking for old facilities.
- No procedures for controlling the entire sampling system have been established.
- No methods have been developed for inspection of sampling places inside the plant.

In conclusion, ANSI N13.1-1999 needs to be applied to the newly established nuclear power station that is under construction at present in Korea. In addition, additional inspections need to be implemented for existing nuclear facilities as well in accordance with ANSI N13.1-1999 for comparison with the other facilities.

