

## **FEEDBACK EXPERIENCE ON USING ISOE NETWORK**

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### **Introduction**

A WANO Peer Review was carried out at Forsmark NPP in November 2004. It was established in the final report that the lack of gamma detection in connection to final personal monitoring, when leaving the radiologically controlled area, can result in some unregistered gamma doses.

The current devices at Forsmark NPP's final monitoring measure in the first place contamination on the skin or clothing and only to a certain extent also gamma radiation. Therefore there is a risk for a smaller amount of internal contamination not to be found.

In order to create a ground for the decision making process before purchasing new equipment and in order to find the existing "Industry Best Practice" level at other NPP's a benchmark was needed.

### **Benchmarking Process**

An inquiry was sent out with help of ISOE Network and it's RP Forum in order to benchmark Forsmark NPP with other NPP's throughout the world.

Within a short period of time answers were received from 11 different countries, from

- Sweden
- Finland
- Switzerland
- Slovakia
- France
- Brazil
- Lithuania
- South Africa
- Slovenia
- Germany
- England.

This made it easier for us to compare our monitoring procedure to the procedures of other NPP's and countries.

## **Conclusions**

When comparing Forsmark NPP to the other NPP's from which an answer was received it was quite obvious that, although the legitimate claims from the Swedish authority were complied with, the level of the equipment in the final monitoring did not live up to "Industry Best Practice".

The suggestion of the Radiation Protection Expert at the Forsmark NPP was to:

- Purchase a new monitoring equipment (Quick Scan -type) to be placed at the main entrance of the power plant in order to perform a measurement of all external personnel when arriving at and when leaving the NPP (and even to regularly perform a measurement of own personnel)
- Purchase and install supplementary gamma sensitive detectors (thorax area) to the existing ones which already are adjusted to such detectors
- Work out in detail appropriate routines for the measuring practice.