

Implementation of a QA/QC programme for noble gas monitoring in the IMS network

There are currently 25 of 40 radionuclide stations with noble gas capabilities which are certified for operations in the IMS network. To gain confidence in results reported from these stations an annual QA/QC programme has been developed ensuring the quality of the radioxenon sampling, gas processing and measurement processes. Reference gas samples spiked with radioxenon isotopes are sent to the certified IMS noble gas stations. After measurement of the reference samples at the station they are sent to IMS radionuclide laboratories and re-analyzed. Results of the QA programme are presented. Furthermore, challenges with regard to a network wide QA/QC programme involving short-lived isotopes and remote station locations are also presented.

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Track Classification: Theme 4. Performance Optimization