

QA/QC Programs for IMS Radionuclide Sensors

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Radionuclide component of CTBT International Monitoring Systems (IMS) consists of a network of 80 worldwide monitoring stations and 16 radionuclide laboratories, in order to ensure reliable detection of particulate and noble gases (xenon) in the atmosphere, which may be released from nuclear explosion. Additionally, 40 of the 80 particulate monitoring stations are to have noble gas detection capabilities, and four of the 16 radionuclide laboratories have been certified for noble gas analysis capability. The IMS Radionuclide QA/QC Framework is established, and is being maintained and improved continuously, covering the entire process from IMS Station site selection through installation, testing, operations and data production. These QA/QC programs for the IMS radionuclide stations and laboratories also ensure the quality of the data produced by the IMS network.