

NMS Tritium in Water Vapour Data Dictionary

Becquerel (Bq)

The International System of units (SI) for radioactivity used to measure the rate of radioactive decay. One becquerel is defined as one decay per second.

Bq/m³

Becquerel per cubic metre. The unit used to report radioactivity concentration in air.

Error

The amount the calculated value may vary from the true value.

Location

The atmospheric water vapour samples are collected by tritium cells from stations located around nuclear power plants. The "GE" stations are near the reactor in Gentilly, QC, "LE" stations are near the Point Lepreau reactor, NB, the "PI" station is in Pickering, ON, and the "OA" station is in Ottawa, ON.

Tritium

Tritium (³H) is a radioactive isotope of hydrogen. The nucleus contains one proton and two neutrons, and undergoing decay via beta particle emission. It is produced naturally by cosmic rays, but is also a by-product of CANDU nuclear reactors.

Volume Collected (L)

The amount of water vapour collected in the tritium cell. The tritium cells contain molecular sieve material that absorbs water vapour that is drawn through the cell.

References

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