Highly Sensitive for Nuclear Power Plants

Real-Time Continuous Water Monitor

Model: NPP-H_2O and NPP-H_2O-G
NPP-GAMMA, NPP-GAMMA-G,
NPP-BETA, NPP-ALPHA

Features

- World's Only PAG-level αβγ Water Monitor
- Measures at or Below EPA/dhs PAG-Levels (EPA's Protective Action Guideline Levels)
- Real Time, In-Line, Continuous
- Detects Alphas, Betas and Gammas
- Gamma-MCA Isotope Identifier
- Detector Type: Nai (Tl) Or HPGe
- Tritium and C-14 **Optional Detection**
- No Reagent Tanks to Fill
- No Waste Stream
- Easy Calibration
- Full SCADA Compatibility

Problem

Most nuclear power stations have high range water monitors for monitoring coolant leaks, but low range water monitors for real-time, on-line use have not been available until now. Very few nuclear power plants have real-time radiation monitors in place to **protect the water and the public, to spot problems early, and to ensure compliance with current regulations.**

Solution

For the first time in a **Continuous Real-Time Water Monitor** the Model ***NPP-H_2O*** solves this problem by continuously monitoring the water using Alpha, Beta and Gamma detectors and Gamma-MCA identifiers. Determines and identifies individual radionuclides.

Sources of Radioactive Material

- Coolant leaks into pipes or
- Drains
- Deposition of air borne materials
- Make-up water

Location of Contaminated Water

Onsite "Inventory"

- Pipes, drains, pools, surface water

Underground

- Drainage pipe
- Vado – zone / soil air

In the Aquifer

Crossing site boundaries

- Liquid waste stream
- Storm drains

Off-Site/Environmental

- Surface Water
- Rivers
- Local drinking water

CBRN Real - Time Air & Water Specialists

TA

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