

# Fuel Pool Tool

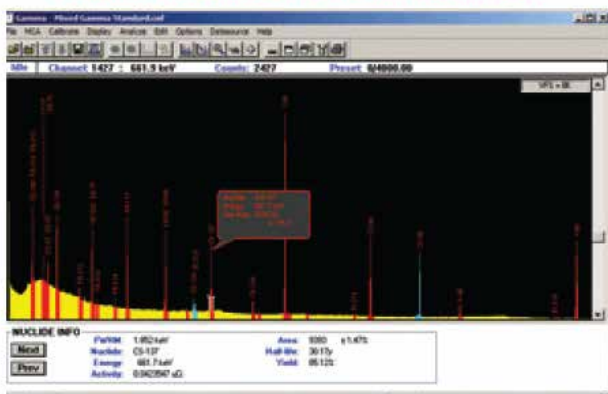
## FPT-H3 Tritium Only (Air and Water) FPT-H3-ABG (Tritium and Alpha-Beta-Gamma - Water)

### Solution

For the first time in a Continuous Real Time monitor the Model FPT-H3 solves this problem by continuous monitoring of the spent fuel pool water and air space using Tritium and optional Alpha, Beta and Gamma detectors. The information from these detectors is analyzed and displayed in units of picoCuries per liter. The calculations are updated every 2 minutes, every hour and every day. The longer update times correspond with greater precision and increased sensitivity. Please see attached chart of measurements.

Using TA/OTC Tried and True sample collection and measurement technology these detectors measure Alpha, Beta and Gamma from any radioactive liquids. Measurements of radiation concentration and total discharge are logged 24 hours/day, 7 days/week.

### GAMMA-MCA ISOTOPE IDENTIFIER



**Description:** The FPT-H3 is a multi-detector for real-time continuous monitoring of Tritium in fuel pool water and in the fuel pool building breathing zone air. A built-in microprocessor controller with color LCD display, user friendly housing for maintenance and decontamination, pre-amp plug-in modules allow for function modification, and a wide range of pump capacities create a system designed for new requirements and site specific needs.

#### Standard Radiation Detectors:

Tritium in Water – NEX-Tritium Monitor

(2) Choices for Tritium in Air

- Model 357 – range of 1-20,000 uCi/ m<sup>3</sup>
- Model 411 – an accident range monitor, 0.01-2,000 mCi/ m<sup>3</sup>  
Dual Range (auto ranging) monitor with a remote, single 2L chamber. A wire grid chamber minimizes plate-out of HTO.

See Measurement Chart for water level and other optional sensors.


#### Optional Detectors – Model FPT-H3-ABG

FPT-H3-ABG incorporates Alpha, Beta, and Gamma detectors for water.

IC-25-HT is a pressurized ion chamber designed for hostile radiation, high temperature environments, and LOCA conditions. It is closely suspended above the water surface of fuel or reactor pools.



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