Alpha Radiation Monitor For Water and Effluent Discharge Real-Time Continuous

Model - Nex-Alpha

Application

Many labs, universities, hospitals, government and pharmaceutical facilities handle some liquid radioactivity.

Some portion of this is collected as radioactive waste and sent for storage or burial. But a significant portion goes down the drain directly or into short term storage tanks. More and more of this is being seen as a hazard by regulators or community members.

The solution is for the various facilities to quantitate these materials to make sure the liquid effluent or waste water is being disposed of into the correct flow path.

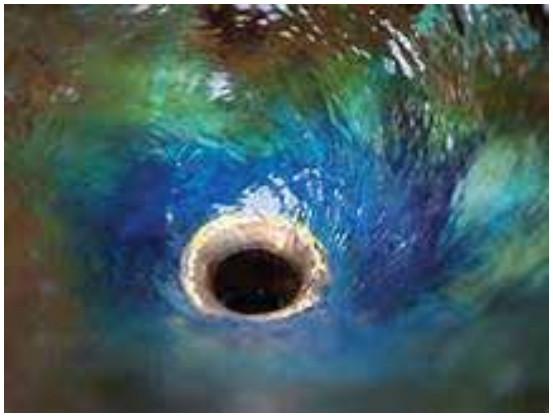
Technical Associates Model **NEX-ALPHA** is designed especially for this purpose of quantitating waste water and liquid effluent.

Problem

Ground water and drinking water sources are vulnerable to contaminants coming from a variety of sources.

These include but are not limited to hospitals, power plants, oil exploration and other industrial uses, accidental or knowing contamination by individuals, groups, and from naturally occurring radioactive materials (NORM).

As yet very few water districts have real-time radiation monitors in place to protect the water and the public.



Solution

For the first time in a **Continuous Real-Time radiation water monitor** the Model **NEX-ALPHA** solves this problem by continuously monitoring the water using ultra-sensitive, Alpha radiation detector.

The information from this detector is analyzed and displayed in units of picoCuries per liter. The count times are user settable and calculations are automatically updated every 2 minutes, every hour and every day. Measurements of radiation concentration and total discharge are logged 24 hr/day, 7 day/week.

The longer update times correspond with greater precision and increased sensitivity. Sensitivities in the daily updates each meet or exceed the DHS Protective Action Guideline Levels (PAG) for drinking water. Please see attached chart of measurements.

Using TA Tried and True sample collection and measurement technology this detector measures ALPHA emissions from any radioactive liquids.

CBRN Real - Time Air & Water Specialists

TA

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