

**DRINKING WATER SUPPLIERS  
TYPICALLY TEST FOR  
RADIONUCLIDES  
ONCE OR TWICE A YEAR**

**Public Safety and Infrastructure  
Protection from terrorist attack,  
illegal disposal, industrial accident  
requires continuous real time  
monitoring**



**NEI 07-07, the Nuclear Industry's  
Ground Water Protection Initiative**

- The Ground Water Protection Initiative mandates utility actions for management and response to release of radioactive materials into subsurface soils and water.
- The Initiative specifies actions for timely and effective ground water protection program
- Objectives and acceptance criteria are specified.
- Reporting and Remediation is required.
- Implementation is mandatory.



**Technical Associate's water monitoring  
instruments are presented in the  
EPA Water and Wastewater Security  
Product Guide**

**In:** Technologies and Techniques for Early  
Warning Systems to Monitor and Evaluate  
Drinking Water Quality: A State of the Art Review

**In:** Guidelines for Designing an Online  
Contaminant Monitoring System.  
Section 4.1.5 *Suggested Guidance for Selection of  
Instruments for Water Supply Systems.*

**In:** Methodology and Characteristics of Water  
System Infrastructure

**In Use:** *Jefferson National Laboratory,  
Virginia*

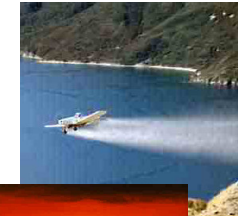
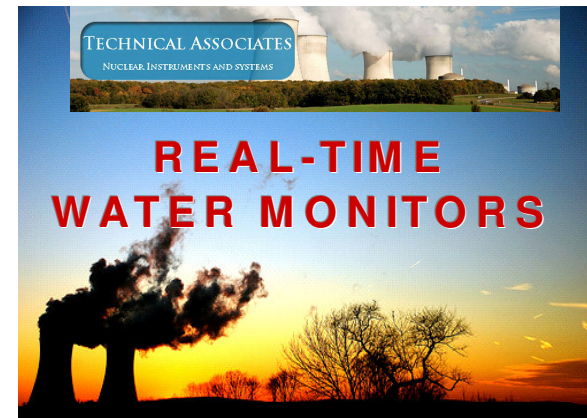
**In Production for:** *Army Corps of Engineers,  
Washington, DC*



**Real-Time Water Monitors**  
TECHNICAL ASSOCIATES

Phone: 818-883-7043  
Fax: 818-883-6103

www.tech-associates.com  
tagold@nwc.net



**DRINKING  
WATER  
WASTE WATER  
POWER  
PLANTS**



**CONTINUOUS REAL TIME  
WATER MONITORING**

- \*\*TERRORIST ACTS**
- \*\*INDUSTRIAL ACCIDENTS**
- \*\*ILLEGAL DISPOSAL**
- \*\*NATURALLY OCCURING**

## NexBeta



- Real-time, In-Line 24/7 or Portable System
- Measures at or below 2009 EPA Protective Action Guide line (PAG) levels and Military Drinking water limits guidelines.
- High Sensitivity to Betas

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## MiniTect SC



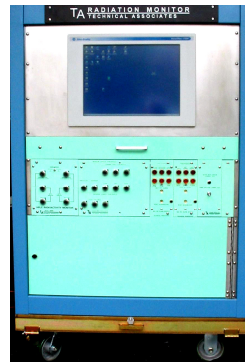
### ALL-IN-ONE SYSTEM CBRN MONITORING

- Solar Powered Portable
- Suitcase (SC) or Backpack (MiniTect BP)
- 7 Chemicals Detected
- Multiple Biological Contaminants Detected
- 4-10 Radionuclides Detected

**ELIMINATE**  
Toxic disposal issues  
Lag time between sampling and testing  
Lab costs

**REDUCE**  
Field labor costs

## NexGen-SSS



### CHEMIST-IN-A-BOX©

The only system available with continuous alpha/beta, tritium, and radon monitoring.

Also available as UNITECT with Chemical / Biological Detectors

#### FOR USE AT:

- Source reservoirs, Aqueducts, Filtration and Treatment plants.
- Measures at or below 2009 EPA Protective Action Guide line (PAG) levels and Military Drinking guidelines.
- Historical data retrieval, in addition to standard features of gamma emission monitoring, real time read out, and background noise screening.
- Easy integration into infrastructure.

## PEMO-7



### PEMO-7 PIPE MONITOR

Detection and quick alarm of waterborne radioactivity contamination flowing through one or more pipes, ducts or effluent streams **regardless of flow rate.**

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## SSS-22P



### LIQUID SCINTILLATION PORTABLE COUNTING SYSTEM

- All BETA emitters
- Includes: Carbon-14, Tritium, SR-90, CS-137
- Field testing kit