

ANSI N320

American National Standard Performance Specifications for Reactor Emergency Radiological Monitoring Instrumentation

Working Group

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History

- N320 first issued1979, only months before TMI
- Never updated
- First rewrite attempted with formation of working group in 1998. Came up with draft but never completed or submitted due to member retirements.
- Current working group held initial meeting at HPS Mid-Year in January of 2007

Scope

- This standard defines the essential performance and testing requirements for monitoring radiation levels and radionuclides associated with reactor accident and post accident conditions. This standard includes the following types of systems;
- High range radiation monitors
- Noble Gas monitors
- Airborne particulate and iodine monitors
- Process steam monitors
- Liquid effluent monitors
- On-site environmental monitors
- High range portable radiation instruments
- Radiation dosimetry

Challenges

- High Temperatures, Pressures, Moisture and Radiation Levels
- New reactor designs and higher power densities
- Digital electronics

Continuing Work

- Reconciliation with IEC 60951
- New Technology
- Calibration and Calibration Frequencies
- Evaluation of new Reactor I&C Designs

40 років дослідниць

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