

EVALUATION OF SAMPLING LOCATIONS FOR TWO RADIONUCLIDE AIR-SAMPLING SYSTEMS BASED ON THE REQUIREMENTS OF ANSI/HPS N13.1-1999

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Abstract—The Pacific Northwest National Laboratory characterized the performance of sampling locations for two radionuclide air-sampling systems that continuously monitor radioactive air emissions from research and development facilities. The testing was conducted to determine whether sampling system locations would meet the criteria for uniform air velocity and contaminant concentration in the American National Standard Institute standard, *Sampling and Monitoring Releases of Airborne Radioactive Substances from the Stacks and Ducts of Nuclear Facilities* (ANSI/HPS N13.1-1999). The standard is a revision of the 1969 version that the facilities have been required to meet. Whereas the 1969 standard provided prescriptive criteria for the selection of sampling locations, the 1999 standard is performance-based and requires well-mixed sampling locations that must be demonstrated through performance tests that are specified in the standard. Testing at the Life Sciences Laboratory 1 was performed on the existing stack at the current sampling location; a scale model was built and used in place of the Radiochemical Processing Laboratory. Although both facilities' sampling sites were compliant with the 1969 standard, only the Radiochemical Processing Laboratory met the criteria of the revised standard. In the future, the use of a computational fluid dynamics computer model may be useful in determining whether a sampling location is likely to test successfully.

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Key words: regulations; air sampling; emissions, atmospheric; monitoring, air

INTRODUCTION

THE PACIFIC NORTHWEST NATIONAL LABORATORY (PNNL) operates a number of research and development (R&D) facilities for the U.S. Department of Energy at the Hanford Site, Washington. Some of the projects conducted in these facilities involve the use of radioactive materials and are subject to federal and state regulations

requiring the sampling of radioactive air emissions. In the past, these regulations incorporated by reference the American National Standards Institute (ANSI) standard N13.1-1969, *Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities* (ANSI 1970). The ANSI/HPS N13.1 standard was updated in 1999 and the revised version, *Sampling and Monitoring Releases of Airborne Radioactive Substances from the Stacks and Ducts of Nuclear Facilities*, provides performance-based criteria for radionuclide air-sampling systems rather than the prescriptive criteria in the 1969 version (ANSI 1999). Federal regulations have been amended to apply the revised standard to new and significantly modified emission units with a potential for significant emissions [greater than one percent of the national emission standards for hazardous air pollutants (40 CFR 61 Subpart H)] (EPA 2002). Although the ANSI/HPS N13.1-1999 revision is considered an improvement over the 1969 version for sampling radioactive air emissions, the EPA concluded that upgrading existing sources would not change the representativeness of the sample (FR 2002). Furthermore, based on a cost-benefit analysis and data from Department of Energy sites, the EPA concluded that upgrade of existing sampling systems is not needed to comply with the regulation and has only required an upgrade for new or significantly modified stacks (FR 2002). In addition, Washington State has started applying selected requirements from the revised 1999 standard on a case-by-case basis as permitting modifications are approved.

Although not required by federal regulations at this time, PNNL conducted facility-specific evaluations to determine the impact of the revised standard and to form strategies for complying with the regulations in a cost-effective manner. Two series of tests were performed: 1) field testing at the 331 Facility, Life Sciences Laboratory 1 (LSL-1) of an existing sampling system location to determine if the location met requirements in the revised standard, and 2) testing using a scale-model replica of the 325 Facility, Radiochemical Processing Laboratory

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Table of Contents N13 Physi Hp

1. Understanding the eBook N13 Physi Hp
 - The Rise of Digital Reading N13 Physi Hp
 - Advantages of eBooks Over Traditional Books
2. Identifying N13 Physi Hp
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an N13 Physi Hp
 - User-Friendly Interface
4. Exploring eBook Recommendations from N13 Physi Hp
 - Personalized Recommendations

-
- N13 Physi Hp User Reviews and Ratings
 - N13 Physi Hp and Bestseller Lists
 - 5. Accessing N13 Physi Hp Free and Paid eBooks
 - N13 Physi Hp Public Domain eBooks
 - N13 Physi Hp eBook Subscription Services
 - N13 Physi Hp Budget-Friendly Options
 - 6. Navigating N13 Physi Hp eBook Formats
 - ePub, PDF, MOBI, and More
 - N13 Physi Hp Compatibility with Devices
 - N13 Physi Hp Enhanced eBook Features
 - 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N13 Physi Hp
 - Highlighting and Note-Taking N13 Physi Hp
 - Interactive Elements N13 Physi Hp
 - 8. Staying Engaged with N13 Physi Hp
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N13 Physi Hp
 - 9. Balancing eBooks and Physical Books N13 Physi Hp
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N13 Physi Hp
 - 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 - 11. Cultivating a Reading Routine N13 Physi Hp
 - Setting Reading Goals N13 Physi Hp
 - Carving Out Dedicated Reading Time
 - 12. Sourcing Reliable Information of N13 Physi Hp
 - Fact-Checking eBook Content of N13 Physi Hp

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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