

Verifying Environmental Performance through Inventory and Assessment: Case Study of the Los Alamos National Laboratory Waste Compliance and Tracking System

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Abstract : To address an important set of unverified field conditions, the Los Alamos National Laboratory Waste Compliance and Tracking System (WCATS) Wall-to-Wall Team performed an unprecedented and advanced inventory. This reconciliation involved confirmation analysis for approximately 5850 hazardous, low-level, mixed low-level, and transuranic waste containers located in more than 200 staging and storage areas across 33 technical areas. The interdisciplinary team scoped, planned, and developed the multidimensional assessments. Through coordination with cross-functional site hosts, they were able to verify and validate data while resolving discrepancies identified in WCATS. The results were extraordinary with an updated inventory, tailored outreach, more cohesive communications, and timely closed-loop feedback.

Keywords : circular economy, environmental performance data, social-ecological-technological systems, waste management

Conference Title : ICNDWMT 2022 : International Conference on Nuclear Decommissioning and Waste Management Technology

Conference Location : San Francisco, United States

Conference Dates : June 02-03, 2022