LA-UR-20-23335

Approved for public release; distribution is unlimited.

Title: International Safeguards and Verification for Nonproliferation at LANL

Author(s): Trahan, Alexis Chanel

Intended for: Webinar

Issued: 2020-05-07 (rev.1)

Disclaimer:

Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by Triad National Security, LLC for the National Nuclear Security Administration of U.S. Department of Energy under contract 89233218CNA000001. By approving this article, the publisher recognizes that the U.S. Government retains nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.

International Safeguards and Verification for Nonproliferation at LANL

Alexis Trahan

May 6, 2020

Managed by Triad National Security, LLC for the U.S. Department of Energy's NNSA

"We are one team, dedicated solely to the success of our Laboratory's national security mission."
- Thom Mason, Laboratory Director

Laboratory Director
Thomas Mason

Director, Laboratory Staff
Frances Chadwick

Communications & Public Affairs
Matthew Nerzig

Ethics & Audits Division
John Schroeder

Office of Counterintelligence (Acting)
James Downs

Office of General Counsel
David Sosinski

Office of Government Affairs & Protocol
Patrick Woehrle

Office of National Security & International Studies
Kory Sylvester

Deputy Director
Science, Technology, & Engineering
John Sarrao

ALD, Global Security
Nancy Jo Nicholas

ALD, Chemical, Earth, & Life Sciences
J. Patrick Fitch

ALD, Physical Sciences
Antoinette Taylor

ALD, Simulation & Computation
Irene Qualters

Deputy Director
Weapons
Robert Webster

ALD, Weapons Physics
Michael Bernardin

ALD, Weapons Engineering
James Owen

ALD, Weapons Production
Dave Eyler

Actinide Operations Director
Frank Gibbs

Deputy Director
Operations
Kelly Beierschmitt

ALD, ESHOSS
Michael Hazen

ALD, Capital Projects
Kathy Segala

ALD, Business Management
LeAnne Stribley

ALD, Facilities & Operations
Bret Simpkins

Global Security

- “It takes a weapons laboratory to find a weapons laboratory”
- We leverage facilities and expertise from LANL’s long history to develop and support programs that span the entire nuclear threat spectrum

International Safeguards

50 years of support for the
International Atomic Energy Agency
(IAEA) through...

Technology development

Training

Expertise

Nuclear Verification

Developing and maintaining the technical means to monitor whether the terms of a nuclear arms control treaty or other international agreement are fulfilled

Develop tools and technologies for U.S.-led on-site verification and/or monitoring activities

Leverage LANL's unique facilities and capabilities to train ONV resources who may be needed for rapid deployment

Spent Power Reactor Fuel Measurements in Sweden

Differential Die-Away Self-Interrogation passive NDA system

Chernobyl Waste Assay Device

Active NDA system for waste drum characterization,
to be deployed to Ukraine

Improved Plutonium Canister Assay System

Passive NDA system for plutonium canister assay,
deployed to Japan