



Los Alamos National Laboratory

SUBJECT: Report on Foreign Travel to Vienna (Austria) for participation in the Technical Meeting of the International Nuclear Data Evaluation Network on Nuclear Data (INDEN) Evaluation of Fissile Actinides

DATE: January 19, 2024

TO: Dr. Angela Chambers, Nuclear Criticality Safety Program Manager, National Nuclear Security Administration / NA-ESH-21

FROM: Esther Leal Cidoncha through Joetta Goda

MEETING TITLE: Technical Meeting of the International Nuclear Data Evaluation Network (INDEN) on Nuclear Data Evaluation of Fissile Actinides

MEETING LOCATION: Vienna (Austria)

MEETING DATES: 11/20/23 to 11/23/23

ATTENDEES ON BEHALF OF NCSP:

Esther Leal Cidoncha (attended virtually)

MEETING PURPOSE:

From the meeting agenda:

- $^{239,240,241}\text{Pu}$ for the JEFF4T3 library
- Status of Burnup calculations
- Optimization of RRR parameters
- Loss of reactivity in burnup calculations using recent data libraries
- **^{233}U capture-to-fission cross section experimental data (Esther's work)**
- ^{232}Th , ^{235}U and ^{238}U with thermal and fast neutrons – final results from AMS measurements
- Validation measurements of neutron capture gamma cascades
- Actinide evaluations up to 300 MeV
- ^{238}U evaluation for JEFF-4
- INDEN evaluations of fissile actinides
- Comments on INDEN evaluations – nubar & PFNS

MEETING BENEFITS TO THE NCSP:

NCSP-sponsored LANL attendee presented NCSP-funded research to the nuclear data and evaluations community. During this meeting, LANL attendee had the opportunity to discuss the status of nuclear data for the new evaluations.

PURPOSE OF TRAVEL

Attendee from Los Alamos National Laboratory attended the Technical Meeting of the International Nuclear Data Evaluation Network on Nuclear Data Evaluation of Fissile Actinides held in Vienna (Austria).



Persons Contacted at Vienna

The attendance was virtual.

Presentations, Chair Responsibilities, Etc.:

- I presented the "Measurement of the neutron-induced capture-to-fission cross section ratio in ^{233}U at LANSCE" on 11/21/23. This document is included with our FY24 Q1 Nuclear Data reports.
- I attended the meeting and discussions.

Distribution:

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