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Subject: Report on Foreign Travel to IAEA Vienna (Virtual)
Date: 04/05/2021
To: Dr. Angela Chambers, Nuclear Criticality Safety Program Manager, National Nuclear Security Administration / NA-511
From: Marco T. Pigni

Meeting Title: Technical Meeting of the International Nuclear Data Evaluation Network (INDEN) on Light Elements and charged-particle reactions

Meeting Location: Vienna (Virtual)

Meeting Date: 15-19 March 2021

Attendees on behalf of NCSP:

Meeting Purpose:

Marco's attendance at the INDEN meetings 15--19 March was about n+16O evaluation and the (a,n) scoping study. After the ENDF/B-VIII.0 in 2018, the n+16O (LANL) evaluation was found in need of several updates that are under discussion within the INDEN and other meetings. Till FY 2018, the n+16O evaluation was an ORNL task within the APPENDIX B and, although the evaluation was completed within the scheduled milestone, discussions on the 16O evaluation within the 2019 INDEN meeting on light nuclei requested important updates to this evaluation. Among these updates, there is the fitting of data for multiple incident channels and normalization factors. These updates are pending enhancements related to the SAMMY code. The presentation gave the status of the 16O evaluation and some recent updates related to the use of the experimental corrections and the use of different parameter basis (B=S and B=I). The second part of the presentation was devoted to the (a,n) scoping study funded by NA22.

Meeting Benefits to the NCSP:

16O evaluation is key player in criticality safety benchmarks.

Purpose of Travel:

To present (virtually) the status of the 16O evaluation and the results of the scoping study for charged-particle induced reactions.

Persons Contacted at Meeting:

Presentations, Chair Responsibilities, Etc.

RES PUB ID 101316.

Distribution:

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