

SG-13

CROSS SECTIONS OF MONITOR REACTIONS IN THE INTERMEDIATE  
ENERGY REGION. \*)

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The Nuclear Data section of the IAEA is coordinating evaluations of cross sections of reactions used for monitoring neutron and proton beams. An extensive list of such reactions was prepared by the participants of the IAEA Advisory Group Meeting on Nuclear Data for Radiation Damage Assessment in 1989 in Vienna.

The resulting file will include evaluations by Chinese, Russian and some other specialists.

The following reactions for proton monitoring will be included  
12-C(p,n)11-C, 12-C(p,x)7-Be, 27-Al(p,x)24-Na, 27-Al(p,x)22-Na  
63-Cu(p,n)53-Zn, 65-Cu(p,n)65-Zn, 56-Fe(p,n)56-Co.

Neutron monitor reactions will include 197-Au(n,x)196,195,194-Au,  
59-Co(n,x)52,54,56-Mn, 54,56,57,58-Fe(n,x)51-Cr, 52,54,56-Mn,  
63,65-Cu(n,x)56,57,58,60-Co

The energy range of the evaluations will be up to 350 Mev.  
The file is scheduled for release in the beginning of 1996.

\*) Prepared for SG13, NEA WPEC, Paris, 16-18 May 1995.

From: M4300::PASHCHENKO "ANATOLY PASHCHENKO, IAEA/Nuclear Data Section" 3-1  
To: OBLOZINSKY, LEMMEL  
CC:  
Subj: MENDL-2 and WIND

From: M4300::PASHCHENKO "ANATOLY PASHCHENKO, IAEA/Nuclear Data Section" 3-1  
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Subj: RE: 100 MeV Activation Data

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Dear Bob,

I know 2 Russian' Libraries which contains Activation CS Data up to 100 MeV: MENDL-2 and WIND. (However neither MENDL-2 nor WIND were described at the FENDL meetings, may be MENDL-2 was reported at the Working Party meeting in Gatlinburg ?). MENDL-2 (Medium Energy Nuclear Data Library) contains activation cross sections (ALICE-92 calculations) for more than 57535 neutron induced reactions for nuclei from Al to Po at energies 0-100 MeV.

WIND (Waste Incineration Nuclear Data) contains cross section data for neutron induced fission and threshold reactions (n,xn), (n,pxn) and (n,axn) for U isotopes 232-238, Np-237,239, and Pu isotopes 236-244 at energies up to 100 MeV.

WIND data are available from [scr] open area, [.wind] subdirectory. IAEA-NDS-143, describing this library, will be sent to you under separate mail.

MENDL-2 data are available on diskettes (11 diskettes). Data will be sent to your address today.

With best wishes,

Anatoly