

History of IRDF(F) library since 1972 at NDS/IAEA

1. Pre-history, IRDF and IRDFF:

1972: First Selection of Data (18 reactions) - by the IAEA Meeting on “Status of Nuclear Data of Neutron Cross Section Data for Reactor Radiation Measurements”

[Report INDC\(NDS\)-47/L](#), 1972 (Part 1):

“This is to be considered as a first step towards the later establishment of internationally accepted standard values for these reactions. The eighteen reactions considered most important in the list of reactions suggested by the members of IWGRRM ..”

1978: Establishing of name “IRDF” - Advisory Group Meeting on Nuclear Data for Reactor Dosimetry

[Report INDC\(NDS\)-103/M](#) and [Report INDC\(NDS\)-100/M](#) hold 13-17 Nov 1978:

*“The Conclusions and recommendations of this meeting ...
- The general Guidelines for the Creation of the International Reactor Dosimetry File...”*

2010: Establishing of name “IRDFF” - Consultants’ Meeting on Improvements and Extensions to IRDF”, May 2010

[Report INDC\(NDS\)-0575](#) :

page 10: "4. the new file should be called the International Reactor Dosimetry and Fusion File (IRDFF)"

page 15: "This report provides a roadmap for the production of the new nuclear data library which will be called the International Reactor Dosimetry and Fusion File (IRDFF)"

page 17: "At the last meeting it was suggested that the new, extended library should have the name “IRDFF: International Reactor Dosimetry and Fusion File”

2. History and Content of IRDF(F) as a Database:

Year	Name & Link	# of Reactions	Report	Comments
1982	IRDF-82	35	IAEA-NDS-41 rev.0	ENDF-5, with covariance
1993	IRDF-90 v. 2	37	IAEA-NDS-141 rev.4	ENDF-B6
2006	IRDF-2002	69	Tech. Rep. Ser. no. 452	
2012	IRDFF v. 1.00		INDC(NDS)-0616	Extension up to 60 MeV
2014 March	IRDFF v. 1.03	76 + 3 covers	CRP IRDFFtest DDP IRDFF	
Current Version	IRDFF v. 1.05 (since Oct 2014)	79 + 3 covers	CRP IRDFFtest DDP IRDFF	see actual List of Reactions