Proposal for new Nuclear Reaction Data Center Protocol
O. Schwerer and V. McLane

modified - 28 May 2002

The Nuclear Data Section (NDS) will assume a more active role co-ordinating all Nuclear Reaction Data Centers (NRDC). In this extended role, NDS will be responsible for ensuring that data compilations are done in an efficient, productive and timely manner. The role of NDS will be to:

(a) assign clear responsibilities for the creation and correction of data compilations, and drive these activities forward,

(b) ensure implementation of compilation rules,

(c) decide on all issues relating to dictionary codes,

(d) be responsible for CINDA and EXFOR distribution to the other data centers.

1.   Compilation Responsibilities
NDS will assign areas of responsibility for data compilation. If a center assigned to a particular area of compilation (e.g., neutron data from a country or countries)[1] is not carrying out their responsibilities, i.e., compiling all new data for that area in a timely manner, the NDS co-ordinator will reassign all or part of those responsibilities to another volunteer center.

A center responsible for an area of compilation may agree with another network center to share the compilation work for that area on a regular basis. However, the responsibility for coverage and quality of the compilation remains with the responsible center.

2.   Decisions concerning compilation rules and new quantities
Final decisions on proposals concerning compilation rules and new quantities can be made with Core Center[2] agreement after discussions among all centers. NDS will be the final arbiter in case the "Core Centers" are unable to reach a decision.

3.   Decisions concerning dictionary codes
NDS will be the final arbiter for all decisions concerning dictionary codes (see also 2).

4.   EXFOR/CINDA Transmissions
All preliminary and final EXFOR and all CINDA transmission will be sent to NDS. NDS will be responsible for distributing all final transmissions.

5.   Corrections to EXFOR/CINDA entries
NDS may correct or assign volunteers to correct preliminary transmissions, which are not corrected and resubmitted as final transmissions in a timely manner.

6.   Urgent compilation needs
If a center has a need for a particular data set to be compiled immediately, the center should send a request to the responsible center with a copy to NDS. If the originating center cannot compile the data in time needed to meet the requirements of the center making the request, that center may compile the data as an area Z entry. The entry will then be sent to both the originating center and NDS. If the originating center does not intend to enter the data in a timely fashion, the NDS may then transmit the Z entry to all centers. The originating center would then be responsible for deleting the Z entry, if they replace it with an entry for their area.

7.   Corrections to entries compiled at another center
Notification of errors found in entries originating at another center should be communicated to all centers. The NDS should make sure these corrections are done in a timely manner. If they are not, the co-ordinator will ask one of the other centers to submit the corrected entries.

8.   Maintenance of the Masterfile.
NDS will maintain and distribute the EXFOR (and CINDA) Masterfile.

---

[1] An area may be for a given projectile or set of projectiles, for a given country or group of countries, for a given data type or data types, or for any combination of these.

[2] Core centers will be defined by NDS based on contributions to network and user service capabilities.

Notes

As a consequence of the above, the obligatory link between the geographical area of the Institute and the accession number, which is in force for neutron data, will now be lifted for all data. Similarly, for corrections to entries of another center according to item 7 above, it will be allowed to transmit entries of different accession number areas on the same TRANS file.

This protocol will be reviewed at the next NRDC meeting.

EXFOR Compilation Responsibilities

Center	Basic responsibility	Additional compilation
NNDC	Neutron data and CPND from USA and Canada	
NEA-DB	Neutron data from "area 2"	CPND (O-series) (co-ordinated by NDS)
NDS	Neutron data and CPND from "rest of the world" (areas not covered otherwise)	
CJD	Neutron data from former Soviet Union (except Ukraine)	
CAJAD	CPND from former Soviet Union (except Ukraine)	CPND from "rest of the world" (co-ordinated by NDS)
CDFE	Photonuclear data	
CNDC	Neutron data and CPND from China (Entries submitted through NDS)	
JCPRG	CPND from Japan (entries submitted through NDS)	
ATOMKI	CPND from Juelich and ATOMKI (entries submitted through NDS)	
UkrNDC	Neutron data and CPND from Ukraine (entries submitted through NDS)	
CNPD-VNIIEF	CPND on light nuclei, co-ordinated with other centres	