

**Nuclear Data Section  
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**Memo CP-D/412**

**Date:** 15 September 2004

**To:** Distribution

**From:** V.Zerkin

**In reply to:** Memo CP-N/28, H. Henriksson, 13 September 2004

**SUBJECT:** Experiences and remarks on the transition to CINDA2001.

There were 3 questions in the MEMO CP-N/28 from Hans Henriksson, NEA Data Bank concerning transition from old CINDA to new CINDA in NEA.

***1. Can new  $Q$  values be added when no match is found (e.g. 'XXX', 'XX1', 'XX2')? Can text analysis of the Comments section be used? Should the original references be examined?***

Unresolved issue with multiple translation of old CINDA to new <Reaction, Quantity> was solved in NDS/NNDC version of CINDA database by keeping the old Quantity codes in the new CINDA (users can retrieve data by old Quantity codes). New Quantity is defined for such cases as <Blank>. If user wants to retrieve by a new Quantity, code=<Blank> is used with Boolean .OR. in addition to the code defined by user. This means that user can find more data than he expected and therefore check-box "search old Cinda" records can be introduced. (Last feature is not yet implemented.)

***2. Should multiple CINDA blocks be created when a non-unique SF6 is found? If so (as has been done at the NEA), then should the EXFOR line in CINDA be updated with the sub-work number?***

Generally, we have decided not to do deep analysis (using EXFOR) during conversion.

***3. Should new CINDA2001 blocks be created from charged particle induced reactions found in EXFOR?***

Yes, it was done in NDS and available on our EXFOR-CINDA CD-ROM and on NDS Web-site since mid-2004.

### **General remark.**

One general remark seems to be needed just to clarify status and possible directions of development of our cooperation. NRDC Network at the beginning was organized to exchange data between Nuclear Data Centers; so having agreement, data formats and protocols we suppose to have the same data libraries. Concerning further business of implementation (like software development, database schema, selection of environment, etc.) Data Centers only informed each others when found this to be useful for them; co-operation in those areas were voluntarily on bilateral basis and co-ordination was not really organized. As result, now Data Centers have partially common software, partially own software which they do not share with others (of course, in many cases, like Retrieval Software, it is dictated by differences in users' needs). Moreover, Data Centers have slightly different data in libraries (EXFOR) and additional work has to be done to merge them.

New CINDA. Migration to the new format and all related problems coincided with Migration Project (from VMS/DBMS to relational databases) being performed by collaboration between NDS-IAEA and NNDC-BNL. CINDA migration was not on first priority in that collaboration, but it was done and presented for user community on CD and Web this year (some maintenance features still have to be finished). Of course, it can be improved and changed if it will be found useful and reasonable.

At the end, it would be great, if we can agree about common approach to database part of our business, adopt a common database schema, intensify software exchange, etc., but since it is beside of the NRDC mandate (scope), we can either expand the scope or continue coordinate our efforts and decisions in this area on bilateral/group basis.

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