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DATE:	18 September 2008
TO:	Distribution
From:	M.Mikhaylyukova, V.Pronyaev
Subject:	Working paper to NRDC2008

EXFOR entries corrections: important points

1. Find all References and read.

As REFERENCE – give only publications, which contain data for this ENTRY.

Other references (containing details of experiment, method of analysis and so on) have to be moved to REL-REF lines.

If the **first author** of second reference (or any subsequent references) is different from the first author of first (main) reference, then this should be mentioned in the free text of the lines with these references.

2. Check data in Tables and in text, compare with data for ALL Subentries of Entry (visually and by plotting as graphs).

3. Check data at Figures of publication, their correspondence to Tables and EXFOR Entry data.

4. Search for duplications in EXFOR database. It is very useful to make Quick Plot from EXFOR database and evaluated libraries by software developed by Victor Zerkin and compare data. Large difference with data from other entries or evaluations may show also, that used reaction code is wrong (e.g. “inelastic collision” used by authors does not mean inelastic scattering cross section, but non-elastic cross section, etc.)

5. Old data (before 1976 year) could be checked against data published in UCRL-50400. Careful analysis of data was done by R.J.Howerton, D.E.Cullen, M.H.NacGregor and S.T.Perkins, when Livermore Evaluated Data Library was prepared. There are several volumes, where experimental and evaluated data are presented at Figures.

Data from many journals, reports, even private communication are presented and could be found using author name or reference or reaction.

6. Check of **physical meaning** of data. The questions should be answered:

What was really measured (primarily measured quantity)?

How was done (if done) the normalization of the cross sections, which standard cross section or monitor reaction was used?

It is very useful to communicate with evaluators and physicists. Any questions and discussions are helpful. Again it's useful to make Quick Plot to compare with other data for the same reaction. These plots can be sent to authors for explanations if they differ too much from other data in the EXFOR database.

7. **Ask authors** (if possible) any questions about found disagreements and possible misprints through e-mail. Often authors answer more readily at the questions about possible misprints, than on request at their data.
8. Use **NuDat** retrievals to understand decay properties and decay radiation actually used (if used) in measurements.
9. Check also **ERRATA or CORRIGENDUM** lists published usually in the last issue of the journal of the year of publication.
10. Use **CHEX code** to find errors.
11. Use **Spellcheckers** to correct free text and remove simple misprints.

Proposals:

To prepare a short Guideline for EXFOR compilers on the base of these working paper with adding comments and other proposals worked out at the meeting.

To recommend all compilers to use this Guideline as checklist at correction of old Entries and at compilation of new ones.