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MEMO CP-4/180

DATE:	26 February 2010
TO:	Distribution
From:	M.Mikhaylyukova, A.Blokhin, V.Pronyaev
Subject:	Statistics for Subents with NODATA

For discussion of 9.2 Agenda at NRDC2010.

At present time EXFOR data base contains a lot of Subents without data (NODATA). According to the Action 48 of NRDC2009 meeting NDS prepared the full list of these Subents: http://www-nds.iaea.org/nrdc/nodata

At this web-page Subents (NODATA) were split into two groups:

- Subents superseded by other Subents – they have STATUS (SPSDD,#);
- Subents not superseded.

For first group of Subents (SPSDD,#) - EXFOR user has possibility to find data in other Subents #, therefore data are presented in EXFOR.

For second group of Subents (not superseded) data are really absent in EXFOR.
Total number of such Subents– 1891 and it's growing from year to year.

There are several reasons to minimize the number of Subents with NODATA and not SPSDD:

- For evaluators and other users it would be better to have no one such Subent in EXFOR.
- Old publications are not always available now. Some issues of journals are lost in libraries. And if we will not start to digitize systematically data from old articles (at least those are in EXFOR already with NODATA) we could lost these experimental data.
- EXFOR is data base, so data should be found and inserted in EXFOR.

To analyze situation by years the statistics was prepared for Entries before and after 2000 year (year is year of first reference in Entry).
Prepared statistics is given in Table .
In last column the ratio of number of Entries after year 2000 to total number of Entries is given.
At average this ratio is about 9.5 %. So, it could be concluded, that situation with such Entries without data has been improved during the last 10 years, if one takes in mind, that other 90.5 % are for previous period of about 50 years (from ~1950 to 2000 year).

Table. Number of Entries containing Subents with NODATA and not superseded -before and after 2000 year.

Center character	Total	Entries < 2000 year	Entries >= 2000 year	(>=2000)/total %
1	202	197	5	2.5
2	131	117	14	10.7
3	18	18	0	
4	61	58	3	4.9
A	1	1	0	
C	83	81	2	2.4
D	15	3	11	73.3
E	29	19	10	65.5
K	1	1	0	
L	1	1	0	
M	2	1	1	50.
O	1	1	0	
P	10	10	0	
R	5	5	0	
T	18	18	0	
V	1	1	0	
Summary	**579**	**522**	**55**	**Average - 9.5 (=55/579)**

PROPOSALS <u>for Entries with NODATA and not superseded</u>:

1) When authors' tables are available in old EXFOR backup or in References -
- Restore the numerical data.

2) When there is real duplication as in REFERENCE as in DATA -
- Delete this Subent by NOSUBENT and add comment in HISTORY.

3) When SPSDD is applicable.
- Add SPSDD under STATUS.

4) When SPSDD is not applicable and the last article was published in 2000 or before -
- Digitize numerical data if quality of the figures is enough for digitization.
- If digitization is not possible - add UNOBT and comment.

5) When SPSDD is not applicable and the last article was published after 2000 -
- Ask authors numerical data again, write the date of this request and also author's name in HISTORY.

In the future, if the e-mail list of authors will be produced (proposed in Memo CP-4/178**)**, then regular automatic sending of e-mails to authors could be organized probably once in half of year.

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