

## Data Sets Coded with RNORM or RCALC under STATUS

(N. Otsuka, CP-D/841(Rev.), 2014-04-30)

There are two special status codes

- RNORM (data renormalized by other than author)
- RCALC (ratio to standard calculated by other than author)

to differentiate data sets obtained by non-authors from the original experimental data sets. I checked whether these codes have been used appropriately. I found 29 data sets coded with RNORM, and none coded with RCALC.

There are problems for all pairs indicated with a flag 1, 2, 3 or 4:

1. Corrected data sets flagged by 1 are renormalized data without indication of the corresponding original data, and they **violate** the usage of the status code RNORM, which always must be coded with the subentry number of the original data (i.e., subentry number flag R in Dictionary 16), for example,

```
STATUS      (OUTDT,40843020) data renormalized in 40843.020
STATUS      (RNORM,40843005) original data are in 40843.005
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when a data set renormalized from 40843.005 is compiled in 40843.020. NNDC and CJD are asked to add an appropriate subentry number after RNORM if the number is available.

2. Corrections are requested for data sets flagged by 2, 3 or 4.

I would like to remind you that the LEXFOR “Status” mentions that

**“Only in exceptional cases** should renormalizations or reassessments of the data as given by an evaluator be compiled.”

**Table: Data sets coded with the status code RNORM**

Corrected	Original	Compiled	Remark	Flag
12185.004	?	<1986	Renormalized by NNDC (in SCISRS?)	1
12185.006	?	<1986	Renormalized by NNDC (in SCISRS?)	1
12185.007	?	<1986	Renormalized by NNDC (in SCISRS?)	1
12434.009	12434.008	<1986	Renormalized by author (Leonard)	2
12576.003	?	<1984	Recalculated by NNDC (in SCISRS?)	1
13222.003	13222.002	<1988	Corrected by non-author (Wahl) (in RIDER?)	
22846.005	22448.002	2004	22448.002 data renormalized by the author of 22846 (two common authors in two articles)	2
22886.003	22668.002	2005	22668.002 data renormalized by the author of 22886 (several common authors in two articles)	2
22999.004.2	22999.003	2008	Sum of beta-delayed gamma production cross section (!?) calculated by compiler	3
30537.002	?	1980	Corrected by author (Chou)	2
40367.002	?	<1986	Renormalized by NEA DB (in NEUDADA?)	1
40367.003	?	<1986	Renormalized by CJD.	1
40367.008	?	<1986	Renormalized by NEA DB (in NEUDADA?). Renormalized error added by CJD.	1
40367.011	?	<1986	Renormalized by NEA DB (in NEUDADA?)	1
40367.014	?	<1986	Renormalized by NEA DB (in NEUDADA?)	1
40367.015	?	<1986	Renormalized by NEA DB (in NEUDADA?)	1
40648.002	40648.003	<1984	Renormalized by NNDC (in SCISRS?)	
40679.002	40679.003	<1984	Renormalized by NNDC (in SCISRS?)	
40679.004	40679.005	<1984	Renormalized by NNDC (in SCISRS?)	
40843.017	40843.002	1989	Approved by the author (Skorkin)	4
40843.018	40843.003	1989	Approved by the author (Skorkin)	4
40843.019	40843.004	1989	Approved by the author (Skorkin)	4
40843.020	40843.005	1989	Approved by the author (Skorkin)	4
B0016.004	B0016.002	<1978	Corrected by non-author for their normalization (detailed explanation given)	
D0012.004	D0004.001	1979	Renormalized by non-author (Drosg).	
D4224.002	D4224.002	2009	Renormalized by ATOMKI (new decay data)	
G4003.002 .2	G4003.002	2013	Approved by author (Parlag)	4
G4004.002 .2	G4004.002	2013	Approved by author (Parlag)	4
G4011.002 .2	G4011.002	2013	Approved by author (Parlag)	4

1. No cross reference to the original entry. It **violates** the usage of STATUS=RNORM.
2. Renormalized by the authors. RNORM should be deleted from the corrected entry, but STATUS=SPSDD must be added to the original entry.
3. This data set must be deleted.
4. STATUS=OUTDT (normalization out-of-date) must be added to the original entry.