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MEMO 4C-4/189

DATE:	17 May 2011
TO:	Distribution
From:	M.Mikhaylyukova
Subject:	Comments of CHEX, for NRDC2011

Comments of CHEX

A. These my comments were already considered and proper corrections were done in CHEX:

- 1) I,M in REL-REF.
- 2) Limits of uncertainties.
- 3) "3" in MONIT-REF for evaluated libraries.

B. Recent comments proposed for consideration:

1)Entry 41375.002:

```

** Illegal code in          field 4
   REACTION 1(50-SN-116(N,G)50-SN-117,,MLT,,RES) Average      41375002

** Illegal code in          field 4
   REACTION 1(50-SN-116(N,G)50-SN-117-M,,MLT,,RES) Average    41375002

```

Comment:

When I added SN-117 in SF4 according to Naohiko's comment, CHEX gives these messages.
Probably, for CHEX this is resonance parameter and SF4 has to be empty for res. par.?
Naohiko insisted that SF4 is not empty.

2) Entry 23103

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** Nonmonatonic data field          E-LVL-INI
      1.675    0.0    0.25    0.03          23103010

```

Comment:

Really, I decided this problem: split this Subent into two Subents.
But this message of CHEX :
Nonmonatonic data field E-LVL-INI
looks very strange, because they are monotonic...
Also Nonmonatonic -> Nonmonotonic (a -> o)?

3)

ENTRY 41191

** Illegal floating point number

** Illegal data field 41191002

ERR-ANALYS (DATA-ERR,3.,10.) Not specified, probably total.
^^^^^^^^^^^^^^^^^^^^

ENTRY 41290

** Illegal floating point number

** Illegal data field 41290002

ERR-ANALYS (DATA-ERR,1.,30.) Total error, mainly due to
^^^^^^^^^^^^^^^^^^^^

Comment:

These two messages of CHEX are not understandable for me.

4)

ENTRY 41427

** Check use of heading TEMP 41427002

** Check use of heading TEMP 41427003

Comment:

These messages are not understandable, because in Subents:

REACTION	(92-U-235(N,G)92-U-236,,SIF/TMP,,AV)	Self-indication	41427	2	3
	function in capture cross-section of U-235,		41427	2	4
	TEMP- sample temperature.		41427	2	5
EN-MAX	EN-MIN	TEMP	DATA	DATA-ERR	
EV	EV	K	NO-DIM	NO-DIM	
4.65	2.15	100.	0.38	0.01	
					41427 2 12
					41427 2 13
					41427 2 14
REACTION	(92-U-235(N,F),,SIF/TMP,,AV)	Self-indication	41427	3	3
	function in fission cross-section of U-235,		41427	3	4
	TEMP- sample temperature.		41427	3	5
EN-MAX	EN-MIN	TEMP	DATA	DATA-ERR	
EV	EV	K	NO-DIM	NO-DIM	
4.65	2.15	100.	0.50	0.01	
					41427 3 12
					41427 3 13
					41427 3 14

5)

ENTRY 41427

** Incorrect units, should be dimension THK in field 3 41427004

In Subent:

EN-MIN	EN-MAX	THICKNESS	DATA	DATA-ERR	
EV	EV	MM	NO-DIM	NO-DIM	
					41427 4 12
					41427 4 13

Comment:

Sometimes thickness of sample is given in units like millimetres
and corresponding values in atoms/barn units are not given in an article.
Probably, "MM" unit could be added in dictionaries as the unit for thickness.

6)

ENTRY 41507

** Incorrect units, should be dimension YLD in field 3 41507003

Comment:

In Subent:

E-MIN	E-MAX	DATA-MAX	41507	3	14
MEV	MEV	PRT/FIS	41507	3	15

This message of CHEX is not understandable, because PRT/FIS is the unit for yield.

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