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MEMO 4C-4/113

DATE: 18 Dec 2000
TO: Distribution
From: S. Maev (alias: S.Mayev)
Subject: Exfor Dictionary 09 and Daniel Dictionary 27
update

Exfor Dictionary 9 (Compounds)

67-HO-CMP Holmium compound
67-HO-OXI Holmium oxide

Daniel Dictionary 27

27 PRO 2000nn	27-CO-CMP	COCMP nnnnn1 3	C
			COBALT COMPOUND
27 PRO 2000nn	27-CO-OXI	COOXI nnnnn1 3	C
			COBALT oxide
27 PRO 2000nn	50-SN-OXI	SNOXI nnnnn1 3	C
			TIN oxide
27 PRO 2000nn	65-TB-CMP	TBCMP nnnnn1 3	C
			TERBIUM compound
27 PRO 2000nn	65-TB-OXI	TBOXI nnnnn1 3	C
			TERBIUM oxide
27 PRO 2000nn	67-HO-CMP	HOCMP nnnnn1 3	C
			HOLMIUM COMPOUND
27 PRO 2000nn	67-HO-OXI	HOOXI nnnnn1 3	C
			HOLMIUM oxide
27 PRO 2000nn	68-ER-CMP	ERCMP nnnnn1 3	C
			ERBIUM COMPOUND
27 PRO 2000nn	68-ER-OXI	EROXI nnnnn1 3	C
			ERBIUM oxide

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EXPLANATION

While compiling data for ultra-cold neutrons coherent scattering I met the necessity to use as targets an f residual neclei oxides and compounds. After running CHEX program this results in following error messages (records are split in two parts):

ENTRY 22450,

REFERENCE (J, ZP/A, 357, 297, 1997)

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Illegal use of nuclide                field 4
REACTION  (65-TB-CMP(N,THS)65-TB-CMP,COH,AMP)Coherent Scattering
          ^^^^^^^^^^^
22450  200003
-----
Illegal use of nuclide                field 4
REACTION  (65-TB-OXI(N,THS)65-TB-OXI,COH,AMP)Coherent Scattering
          ^^^^^^^^^^^
22450  300003
-----
Illegal code in                       field 1
Illegal code in                       field 4
REACTION  (67-HO-CMP(N,THS)67-HO-CMP,COH,AMP)Coherent Scattering
          ^^^^^^^^^^^      ^^^^^^^^^^^
22450  500003
-----
Missing independent variable          NUCLIDE
22450  5
-----
Illegal code in                       field 1
Illegal code in                       field 4
REACTION  (67-HO-OXI(N,THS)67-HO-OXI,COH,AMP) Coherent Scattering
          ^^^^^^^^^^^      ^^^^^^^^^^^
22450  600003
-----
Missing independent variable          NUCLIDE
22450  6
-----
Illegal use of nuclide                field 4
REACTION  (68-ER-CMP(N,THS)68-ER-CMP,COH,AMP) Coherent Scattering
          ^^^^^^^^^^^
22450  800003
-----
Illegal use of nuclide                field 4
REACTION  (68-ER-OXI(N,THS)68-ER-OXI,COH,AMP) Coherent Scattering
          ^^^^^^^^^^^
22450  900003
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and similar messages for ENTRY 22451.
REFERENCE (J,ZN/A,52,270,1997)

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To avoid error messages
"illegal code in field 1"

it is sufficient to add codes "67-HO-CMP" and "67-HO-OXI" in Exfor
Dictionary 9 - Compounds.

To avoid error message
"illegal use of nuclide field 4"

it would be necessary to add "3" to field 15 in Dict. 27. But this
latter does'nt contain compounds. On this reason this "3" has to be
added in corresponding fields of Daniel Dict.27.

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