

RUSSIA'S NUCLEAR DATA CENTER - RNDC  
 Alias: CENTR JADERNYKH DANNYKH - CJD  
 Bondarenko Sq., 1  
 Institute of Physics and Power Engineering - IPPE  
 Obninsk 249020  
 Kaluga Region, RUSSIA

(Internet) [manokhin@ippe.obninsk.ru](mailto:manokhin@ippe.obninsk.ru)

Telephone: (+7 08439)989-82  
 FAX: (+7 095)883-3112

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

**EXPLANATION**

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

**ENTRY 22450,**

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

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.

=====  
 Stanislav Maev

Clearance: Vassily N. Manokhin.

Distribution:

MCLANE@NNDC.BNL.GOV

KELLET@NEA.FR

MANOKHIN@IPPE.OBNINSK.RU

