

BROOKHAVEN NATIONAL LABORATORY

MEMORANDUM

CP-C/153

DATE: October 25, 1985
TO: Distribution
FROM: V. McLane *VM*
SUBJECT: Dictionary 27 (Nuclides)

We should use standard sources for deciding which isotopes have metastable states before entering them into Dictionary 27. I propose the Nuclear Wallet Cards as a source and invite the other centers to propose additional sources.

I would also like to propose the addition of a new field in column 17: Fission product code 'F'.

Based on the Nuclear Wallet Cards, the following changes should be made to Dictionary 27:

Add to column 25

27-CO-54	1
31-GA-74	1
32-GE-79	1
33-AS-82	1
3x-AS-84	A
39-Y-93	A
39-Y-96	2
39-Y-97	1
39-Y-98	1
42-MO-105	1
44-RU-109	1
45-RH-100	1
45-RH-96	1
46-PD-113	1
47-AG-117	1
48-CD-119	1
49-IN-122	1
49-IN-124	1
49-IN-126	1
49-IN-129	1
50-SN-130	1
51-SB-129	1
55-CS-124	1
57-LA-146	1
63-EU-142	1

cc. *Lullen*
Gandarias
Goulo
Lammer
Lennel
Okamoto
Oshomura
Schmidt
Schweel
Seits

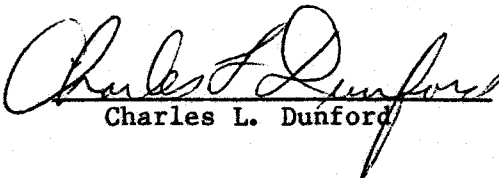
63-EU-154	1
69-TM-162	1
71-LU-170	A
73-TA-178	1
83-BI-200	1
83-BI-212	2
86-RN-201	1
86-RN-203	1
93-NP-242	1
99-ES-250	1
99-ES-256	1

Change column 25

32-GE-73	A
35-BR-76	i
49-IN-114	1
51-SB-126	2
56-BA-136	A
94-PU-237	A
95-AM-246	1

Delete column 25

50-SN-109
51-SB-114
51-SB-135
56-BA-127
66-DY-164
73-TA-179
77-IR-189
95-AM-237
95-AM-238
95-AM-239
95-AM-240
95-AM-245
96-CM-241
96-CM-242
96-CM-243
96-CM-244
96-CM-245
97-BK-242
97-BK-244
97-BK-245


Charles L. Dunford

VML:anl

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