

Memo 4C-3/212

To: Distribution 1977-10-14  
From: P.M. Attree and H.D. Lemmel  
Subject: EXFOR errors in connection with nuclides dictionary

During the course of further work on the preliminary version of the nuclides dictionary many additional mistakes were found in the EXFOR master files (refer also memo 4C-3/208).

Appendix I lists all the corrections which we have made to the nuclide codes in the EXFOR master files.

Entries from area-3 will be retransmitted with corrections.

Other important EXFOR corrections

|                  |   |
|------------------|---|
| 10090.023 to 038 | Data-headings TEMP and TEMP-ERR corrected to DATA and DATA-ERR. (Nuclear Temperature is <u>not</u> entered under TEMP!) |
| 40287.006        | Data-units correctly aligned.   |
| 51322.020        | Data-heading H-LIFE corrected HL.   |

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*Whinnit*

Wrong code

Correct code

| Wrong code         | Correct code |
|--------------------|--------------|
| 10214031 RESID-NUC | 42-MO-99     |
| 10356002 HALF-LIFE | 33-AS-75-M1  |
| 10361003 HALF-LIFE | 83-BI-207-M1 |
| 10361004 HALF-LIFE | 83-BI-206-M1 |
| 10361005 HALF-LIFE | 83-BI-205-M1 |
| 10431016 HALF-LIFE | 64-GD-159-M1 |
| 10431030 HALF-LIFE | 37-RB-85-M1  |
| 10431055 HALF-LIFE | 64-GD-159-M1 |
| 10536005 HALF-LIFE | 28-NI-57-G   |
| 10536006 HALF-LIFE | 28-NI-57-G   |
| 10536007 HALF-LIFE | 28-NI-57-G   |
| 10536017 HALF-LIFE | 40-ZR-88-G   |
| 10536024 HALF-LIFE | 63-EU-149-G  |
| 10536025 HALF-LIFE | 63-EU-149-G  |
| 10536026 HALF-LIFE | 63-EU-149-G  |
| 10536027 HALF-LIFE | 63-EU-148-G  |
| 10536028 HALF-LIFE | 63-EU-148-G  |
| 10536029 HALF-LIFE | 69-TM-168-G  |
| 10536030 HALF-LIFE | 69-TM-168-G  |
| 10536031 HALF-LIFE | 69-TM-168-G  |
| 10536032 HALF-LIFE | 69-TM-167-G  |
| 10536033 HALF-LIFE | 69-TM-167-G  |
| 10536034 HALF-LIFE | 69-TM-167-G  |
| 10536035 HALF-LIFE | 69-TM-166-G  |
| 10536036 HALF-LIFE | 69-TM-166-G  |
| 10536040 HALF-LIFE | 71-LU-173-G  |
| 10536041 HALF-LIFE | 71-LU-173-G  |
| 10536042 HALF-LIFE | 71-LU-173-G  |
| 10536050 HALF-LIFE | 77-IR-188-G  |
| 10536060 HALF-LIFE | 79-AU-194-G  |
| 10536061 HALF-LIFE | 79-AU-194-G  |
| 10536062 HALF-LIFE | 79-AU-194-G  |
| 10559002 RESID-NUC | 30-ZN-64-G   |
| 10559003 RESID-NUC | 30-ZN-66-G   |
| 10559004 RESID-NUC | 30-ZN-67-G   |
| 10559005 RESID-NUC | 30-ZN-68-G   |
| 10559006 RESID-NUC | 30-ZN-70-G   |
| 10559008 RESID-NUC | 29-CU-64-G   |
| 10606002 HALF-LIFE | 81-TL-206-G  |
| 10536029 RESID-NUC | 78-PT-198-M1 |
| 20554002 RESID-NUC | 24-CR-49-M1  |
| 20554003 RESID-NUC | 25-MN-54-M1  |
| 20554004 RESID-NUC | 25-MN-54-M1  |
| 20554005 RESID-NUC | 24-CR-51-M1  |
| 20554006 RESID-NUC | 25-MN-56-M1  |
| 20554007 RESID-NUC | 28-NI-65-M1  |
| 20625032 ISO-QUANT | 73-TA-182-G  |
| 20638026 ISO-QUANT | 43-TC-99-G   |
| 20638027 ISO-QUANT | 43-TC-99-G   |
| 30063002 RESID-NUC | 25-MN-56-G   |
| 30063012 RESID-NUC | 90-TH-233-G  |
| 30171006 HALF-LIFE | 50-SN-116-M1 |
| 30171006 HALF-LIFE | 50-SN-116-M2 |
| 30237002 RESID-NUC | 9-F-18-M1    |
| 30237007 RESID-NUC | 19-K-40-M1   |
| 30237010 RESID-NUC | 37-RB-85-M1  |
| 30237013 RESID-NUC | 42-MO-92-M1  |
| 30249002 HALF-LIFE | 72-HF-181-G  |

42-MO-99

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28-NI-57  
28-NI-57  
28-NI-57  
40-ZR-88  
63-EU-149  
63-EU-149  
63-EU-149  
63-EU-148  
63-EU-148  
69-TM-168  
69-TM-168  
69-TM-168  
69-TM-167  
69-TM-167  
69-TM-167  
69-TM-166  
69-TM-166  
71-LU-173  
71-LU-173  
71-LU-173  
77-IR-188  
79-AU-194  
79-AU-194  
79-AU-194  
30-ZN-64  
30-ZN-66  
30-ZN-67  
30-ZN-68  
30-ZN-70  
29-CU-64  
81-TL-206  
78-PT-197-M1  
24-CR-49  
25-MN-54  
25-MN-54  
24-CR-51  
25-MN-56  
28-NI-65  
73-TA-182  
43-TC-99  
43-TC-99  
25-MN-56  
90-TH-233  
49-IN-116-M1  
49-IN-116-M2  
72-HF-181

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|          |           | Wrong code  | Correct code |   |
|----------|-----------|-------------|--------------|---|
| 30249003 | HALF-LIFE | 81-TL-206-G | 81-TL-206    | } |
| 30249004 | HALF-LIFE | 80-HG-205-G | 80-HG-205    |   |
| 30249004 | HALF-LIFE | 82-PB-209-G | 82-PB-209    |   |
| 30249005 | HALF-LIFE | 81-TL-206-G | 81-TL-206    |   |
| 30263003 | HALF-LIFE | 12-MG-27-G  | 12-MG-27     |   |
| 30263004 | HALF-LIFE | 13-AL-28-G  | 13-AL-28     |   |
| 30263005 | HALF-LIFE | 18-AR-41-G  | 18-AR-41     |   |
| 30263006 | HALF-LIFE | 22-TI-51-G  | 22-TI-51     |   |
| 30263007 | HALF-LIFE | 23-V-52-G   | 23-V-52      |   |
| 30263008 | HALF-LIFE | 26-FE-59-G  | 26-FE-59     |   |
| 30263010 | HALF-LIFE | 28-NI-65-G  | 28-NI-65     |   |
| 30263011 | HALF-LIFE | 29-CU-64-G  | 29-CU-64     |   |
| 30263012 | HALF-LIFE | 29-CU-66-G  | 29-CU-66     |   |
| 30263014 | HALF-LIFE | 37-RB-88-G  | 37-RB-88     |   |
| 30265002 | HALF-LIFE | 12-MG-27-G  | 12-MG-27     |   |
| 30265003 | HALF-LIFE | 13-AL-28-G  | 13-AL-28     |   |
| 30265004 | HALF-LIFE | 14-SI-31-G  | 14-SI-31     |   |
| 30265014 | HALF-LIFE | 53-I-128-G  | 53-I-128     |   |
| 30286002 | HALF-LIFE | 11-NA-24-G  | 11-NA-24     |   |
| 30287003 | HALF-LIFE | 31-GA-70-G  | 31-GA-70     |   |
| 30290001 | HALF-LIFE | 74-W-187-G  | 74-W-187     |   |
| 30315002 | HALF-LIFE | 24-CR-51-M1 |              |   |
| 30315002 | RESID-NUC | 24-CR-51-M1 |              |   |
| 40154002 | HALF-LIFE | 5-B-12-M    | 5-B-12       |   |
| 50567002 | ISO-QUANT | 95-AM-244-G | 95-AM-244    |   |
| 51322020 | STANDARD  | 38-SR-56    | 38-SR-86     |   |

- Note:
1. Half-life measured first time in this work, therefore doubtful if code should be included in nuclide dictionary
  2. No metastable state exists, therefore code G should not be used.
  3. No metastable state, therefore M1 should not be used.
  4. G not permitted in ISO-QUANT code.