To: Distribution   1977-08-31

From: P.M. Attree and H.D. Lemmel

Subject: Exfor errors in connection with nuclides dictionary

During the process of trying to construct a preliminary
version of the nuclides dictionary many mistakes were found in the
nuclide codes in the EXFOR master files. Such mistakes are
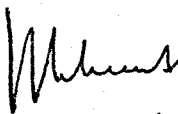extremely disturbing in connection with indexing and retrieval.

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

Appendix II lists other important corrections which
were made.

Appendix III lists disturbing mistakes which were found
but could either not be resolved or not easily corrected. (Note
that the RESID-NUC is an important keyword when converting from
ISO-QUANT to REACTION formalism for indexing purposes).

Entries from area-3 will be retransmitted with corrections.
Entries from 70 000 series have not been considered, as the whole
file is being revised.

Clearance: J.J. Schmidt

Distribution

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Subacc #	Keyword	Wrong code	Corrected to
10145.002	HALF-LIFE	(39-Y-90,NR...S)	(39-Y-90-M)
10214.021	RESID-NUC	((43-TC-99-M1)	(43-TC-99-M1)
10282.004	STANDARD	(13-AL-0,	(13-AL-27,
10482.002	HALF-LIFE	(HL2,21-SC-44-GND)	(HL2,21-SC-44-G)
20004.099	ISO-QUANT	(33-AS-0,	(33-AS-75,
20004.111	ISO-QUANT	(53-I-0,	(53-I-127,
2) 20028.002	CMPD-QUANT	(PLYST,TOT..SPA)	(1-H-CXX,TOT..SPA)
20028.003	CMPD-QUANT	(PLYST,TOT..SPA)	(1-H-CXX,TOT..SPA)
20028.004	CMPD-QUANT	(PLYST,TOT..SPA)	(1-H-CXX,TOT..SPA)
3) 20028.005	CMPD-QUANT	(PLYTH,TOT..SPA)	(1-H-PLE,TOT..SPA)
20028.006	CMPD-QUANT	(PLYTH,TOT..SPA)	(1-H-PLE,TOT..SPA)
20028.007	CMPD-QUANT	(PLYTH,TOT..SPA)	(1-H-PLE,TOT..SPA)
4) 20029.001	STANDARD	(97-AU-197,VG,RI)	(79-AU-197,VG,RI)
20029.001	STANDARD	(97-AU-197,VG)	(79-AU-197,VG)
20038.002	CMPD-QUANT	(D2O,TOT)	(1-H-020,TOT)
20038.003	CMPD-QUANT	(D2O,TOT)	(1-H-020,TOT)
5) 20048.001	STANDARD	(97-AU-197,VG)	(79-AU-197,VG)
20049.003	RESID-NUC	(26-FE-56)	(26-FE-56)
20066.002	ISO-QUANT	(82-PB-00,EL,DA)	(82-PB-0,EL,DA)
30005.003	ISO-QUANT	(1-D-2,	(1-H-2,
30043.001	STANDARD	(1-D-2,	(1-H-2,
30079.003	RESID-NUC	(23-V-52-)	(23-V-52)
4) 30085.001	STANDARD	(79-AU-0,	(79-AU-197,
30148.002	ISO-QUANT	(1-T-3,	(1-H-3,
30182.004	HALF-LIFE	(HL1,79-AU-196,M1)	(HL1,79-AU-196-M1)
30182.004	HALF-LIFE	(HL2,79-AU-196,M2)	(HL2,79-AU-196-M2)
4) 40005.003	STANDARD	(92-U-335,	(92-U-235,
40027.002	ISO-QUANT	(92-U-2333,VF)	(92-U-233,VF)
40037.085	ISO-QUANT	(28-NI-NEM,DA/DE)	(28-NI-0,NEM,DA/DE)
40042.005	ISO-QUANT	(27-CO-0,	(27-CO-59,
40042.011	ISO-QUANT	(27-CO-0,	(27-CO-59,
1) 40062.002	RESID-NUC	(AM)	(95-AM-242-G)
40062.003	RESID-NUC	(AM)	(95-AM-242-M1)
40062.006	RESID-NUC	(AM)	(95-AM-242-G)
40062.007	RESID-NUC	(AM)	(95-AM-242-M1)
40066.004	ISO-QUANT	(13-AL-0,	(13-AL-27,
40066.005	ISO-QUANT	(13-AL-0,	(13-AL-27,
40066.006	ISO-QUANT	(13-AL-0,	(13-AL-27,
40066.007	NUC-QUANT	(13-AL-0,	(13-AL-27,
40066.012	ISO-QUANT	(41-NB-0,	(41-NB-93,
40066.013	ISO-QUANT	(41-NB-0,	(41-NB-93,
40066.014	ISO-QUANT	(41-NB-0,	(41-NB-93,
40066.015	NUC-QUANT	(41-NB-0,	(41-NB-93,
40082.017	ISO-QUANT	(41-VO-0,	(42-MO-0,
40082.021	ISO-QUANT	(92-TH-232,	(90-TH-232,
40113.053	NUC-QUANT	(60/ND-142,	(60-ND-142,
40139.020	ISO-QUANT	(24-CR-52 INL,,PAR)	(24-CR-52,INL,,PAR)
40153.001	STANDARD	(92-G-235,	(92-U-235,
40161.002	ISO-QUANT	(13-AL-0,	(13-AL-27,
40161.003	ISO-QUANT	(13-AL-0,	(13-AL-27,
40161.004	ISO-QUANT	(13-AL-0,	(13-AL-27,
40161.005	ISO-QUANT	(13-AL-0,	(13-AL-27,
40161.006	ISO-QUANT	(13-AL-0,	(13-AL-27,
40161.007	ISO-QUANT	(13-AL-0,	(13-AL-27,
40161.008	ISO-QUANT	(13-AL-0,	(13-AL-27,
7) 40161.009	ISO-QUANT	(13-AL-0,	(13-AL-27,
40161.010	ISO-QUANT	(13-AL-0,	(13-AL-27,
7) 40161.010	ISO-QUANT	(13-AL-0,	(13-AL-27,
40161.011	ISO-QUANT	(13-AL-0,	(13-AL-27,

Subacc#	Keyword	Wrong code	Corrected to
40161.011	ISO-QUANT	(83-BI-?,	(83-BI-209,
40161.012	ISO-QUANT	(83-BI-?,	(83-BI-209,
40161.013	ISO-QUANT	(83-BI-?,	(83-BI-209,
40161.014	ISO-QUANT	(83-BI-?,	(83-BI-209,
40179.007	ISO-QUANT	(27-CO-?,	(27-CO-59,
40179.008	ISO-QUANT	(27-CO-?,	(27-CO-59,
40179.009	ISO-QUANT	(27-CO-?,	(27-CO-59,
40179.022	ISO-QUANT	(41-NB-?,	(41-NB-93,
40179.023	ISO-QUANT	(41-NB-?,	(41-NB-93,
40179.024	ISO-QUANT	(41-NB-?,	(41-NB-93,
40207.002	ISO-QUANT	(4-RE-0,	(4-RE-9,
40207.003	ISO-QUANT	(4-RE-0,	(4-RE-9,
40207.004	ISO-QUANT	(4-RE-0,	(4-RE-9,
40207.005	ISO-QUANT	(4-RE-0,	(4-RE-9,
40207.006	ISO-QUANT	(4-RE-0,	(4-RE-9,
40220.002	ISO-QUANT	(1-H-2,	(1-H-2,
40221.037	ISO-QUANT	(83-BI-209,	(83-BI-209,
40222.001	STANDARD	(79-AU-?,	(79-AU-197,
40222.002	ISO-QUANT	(79-AU-?,	(79-AU-197,
40226.019	ISO-QUANT	(2?-ZR-90,	(4?-ZR-90,
40266.002	ISO-QUANT	(13-AL-?,	(13-AL-27,
40274.031	STANDARD	(79-AU-?,	(79-AU-197,
40275.002	ISO-QUANT	(41-NB-?,	(41-NB-93,
40275.003	ISO-QUANT	(41-NB-?,	(41-NB-93,
40275.004	ISO-QUANT	(41-NB-?,	(41-NB-93,
40275.005	ISO-QUANT	(41-NB-?,	(41-NB-93,
40275.006	ISO-QUANT	(41-NB-?,	(41-NB-93,
40285.004	ISO-QUANT	(45-RH-?,	(45-RH-103,
40285.009	ISO-QUANT	(53-I-?,	(53-I-127,
40285.010	ISO-QUANT	(90-TH-?,	(90-TH-232,
40286.004	ISO-QUANT	(24-GR-50,	(24-C?-50,
40287.005	ISO-QUANT	(27-CO-?,	(27-CO-59,
40287.006	NUC-QUANT	(27-CO-?,	(27-CO-59,
40287.007	NUC-QUANT	(27-CO-?,	(27-CO-59,
40287.014	ISO-QUANT	(41-NB-?,	(41-NB-93,
40287.015	NUC-QUANT	(41-NB-?,	(41-NB-93,
40287.016	NUC-QUANT	(41-NB-?,	(41-NB-93,
40287.020	ISO-QUANT	(83-BI-?,	(83-BI-209,
40287.021	NUC-QUANT	(83-BI-?,	(83-BI-209,
40287.022	NUC-QUANT	(83-BI-?,	(83-BI-209,
40300.001	STANDARD	(79-AU-?,	(79-AU-197,
40302.019	ISO-QUANT	(60-GD-160,	(64-GD-160,
40338.002	ISO-QUANT	(4-RE-0,	(4-RE-9,
40341.002	NUC-QUANT	(24-PR-?,	(24-CR-?,
50037.003	STANDARD	(5-R-0,	(5-?-0,
50377.005	RESID-NUC	(91-PA,234-G)	(91-PA-234-G)
50377.006	STANDARD	(27,CO-59,?G)	(27-CO-59,NG)
50438.002	ISO-QUANT	(1-H-2?,TOT)	(1-H-2,TOT)
50553.002	STANDARD	(33-GE-76,	(33-GE-76,
50594.006	STANDARD	(24-CO-59,	(27-CO-59,
50642.002	CMPD-QUANT	(1-?-WT?,	(1-H-020,
50741.005	STANDARD	(49-AG-?,	(47-AG-?,
50755.005	CMPD-QUANT	(1-?-WTR,	(1-H-020,
50854.003	ISO-QUANT	(46-PD,108,	(46-PD-108,
51309.004	STANDARD	(3-LI6,?T)	(3-LI-6,?T)
51309.005	STANDARD	(3-LI6,?T)	(3-LI-6,?T)
51309.006	STANDARD	(3-LI6,?T)	(3-LI-6,?T)
51309.007	STANDARD	(3-LI6,?T)	(3-LI-6,?T)
51309.00?	STANDARD	(3-LI6,?T)	(3-LI-6,?T)

4)

Subacc #	Keyword	Wrong code	Corrected to
51309.010	STANDARD	(3-LI6,NT)	(3-LI-6,NT)
7) 51450.003	ISO-QUANT	(95-PU-241,TOT/MID))	(95-AM-241,TOT/MID)
51833.010	STANDARD	(53-I-0,	(53-I-127,
51865.002	CMPD-QUANT	(1-0-WTR,	(1-H-H2O,
51904.002	ISO-QUANT	(0-N-1,	(0-NN-1,
60664.003	ISO-QUANT	(28-NI-28,	(28-NI-58,
60892.003	CMPD-QUANT	(1-0-WTR,	(1-H-H2O,
6) 60892.004	CMPD-QUANT	(1-H-ETH,	(1-H-CXX,
4) 61037.002	STANDARD	(29-FE-56,NP)	(26-FE-56,NP)
61037.002	STANDARD	(26-CU-65,N2N)	(29-CU-65,N2N)
61073.010	STANDARD	(1-H-0,	(1-H-0,
61073.011	STANDARD	(1-H-0,	(1-H-0,
61073.012	STANDARD	(1-H-0,	(1-H-0,
61073.013	STANDARD	(1-H-0,	(1-H-0,
61073.014	STANDARD	(1-H-0,	(1-H-0,
80173.002	ISO-QUANT	(0-N-1,	(0-NN-1,
80298.002	ISO-QUANT	(0-N-1,	(0-NN-1,

1) Remove free text from record

2) Add POLYSTYRENE in free text

3) Add POLYETHYLENE in free text

4) Second standard given

5) Third standard given

6) Add ETHANOL in free text

7) Second unit in isoquant combination

<u>Other corrections to master files in connection with nuclides</u>

30163.003	Replace ISO-QUANT by CMPD-QUANT.
40109.006	Replace ISO-QUANT by CMPD-QUANT.
40274.001	CORRRECTION corrected to CORRECTION
40275.001	Move (N,P) one space to right in record following STANDARD keyword.
40275.004	Data-heading DATA-ERR moved two spaces to right.

60905.015	STANDARD	Replace code (R) by blanks.
	ISO-QUANT	Remove one comma before MS in second unit of multiple Isoquant.

<u>The following mistakes could either not be resolved or could not easily be corrected.</u>

<u>Subacc#</u>	<u>Keyword</u>	<u>Error</u>
10214.007	RESID-NUC	In each case 2 or more nuclide
017		codes are included in parentheses,
019		separated by '+';
026		e.g. ((77-IR-190-M1)+(77-IR-190-G)).
028		We do not believe this form has even
		been agreed upon. Probably no difficulty
		would be encountered in REACTION formation.
50026.034	ISO-QUANT	(26-FE-26, - - -
036		