

From: <sup>(OECD)</sup> Hans Potters  
Subject: Comments on EXFOR tapes

22.5.73

15th May 1973

INFORMATIONAL COPY ONLY

- c Altree
- c Colbourne
- c Dunford
- c Lemley

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Distribution:

- Dr. V. Manokhin (5 copies)
- Dr. S. Pearlstein ( " " )
- Dr. J. Schmidt ( " " )

  
Fritz Fröhner

GENERAL

1. We have converted and scanned tapes 1012, 3005-3008 and 4002-4005.
2. We found a suspicious number on tape 3003.
3. We ran tape 3009 through our CHECKT programme and found a considerable number of formal errors. We hope NDS will soon implement the CHECKT programme as updated by us on their new computer.
4. We cannot guarantee that we have not made remarks concerning rules which have come in to vigour since a work was coded. Centres can nevertheless assign priorities to changes or refuse changes as they wish.
5. We hope, however, that we shall get reactions on our remarks via the mechanism proposed in memorandum 4C-2/29, point 7. We shall shortly send off a memorandum with photocopies of remarks in earlier memoranda on which no reaction has been received up to the present.
6. With regard to missing information, we noted what we thought was useful information. However, there are some items which we strongly feel should be in, or should be corrected. We shall come back to these points if the reaction is negative.
7. We have just received TRANS 4007 and have run it through our CHECKT programme. More comments on TRANS 3009 and 4007 will follow when conversion to NEUDADA is done.

TRANS 1012

10012.all

STANDARD

Missing for all cross sections.

.004,005

BIB

Line 6: Free text parenthesis in column 12.

COMMON

E should be E-LVL.

.001,006

COMMON/DATA

EN-RSL in subwork .001 is not valid for subwork .006.

.006

? METHOD

Transmission missing.

.006-010

DETECTOR

Missing.

10013.001

? CORRECTION

Should be ANALYSIS?

DETECTOR

Expand.

FACILITY

Lines 12 and 13: . . . Spectrometer.

.008,010

STANDARD

Missing.

.009

SUBENT

Missing (92-U-234, NG) ?

10083.001

? ERR-ANALYS

Text unclear; contains information on STANDARD, ANALYSIS and CORRECTION, which should go under relevant keywords.

? STANDARD

Drop code; should be gold, according to ERR-ANALYS.

METHOD

Isotopic misspelt.

- 10126.001           ?   BIB  
 Line 13. Unclear: should PUC1 be PU-C?  
DETECTOR  
 Missing.  
ANALYS/STANDARD/DATA  
 According to DATA, this is a 2200 m/sec. cross section: how is this derived and normalized?
- 10132.001           STANDARD  
 Drop (not pertinent).  
GEOMETRY  
 Obsolete: move to METHOD.  
 ? ANALYSIS  
 No information on how the spins were derived (Shape analysis?).
- 10146.001           ?   METHOD  
 Time-of-flight?  
ERR-ANALYS  
 Points to ANALYS, where there is no information concerning errors.  
ANALYSIS  
 Part of this information should go under CORRECTION.  
N-SOURCE  
 Expand.
- .002           ?   ISO-QUANT/STANDARD  
 The same data are taken as standard. How are they normalized?
- 10152.001           STANDARD  
 Missing.
- 10159.001           ERR-ANALYS  
 Should be CORRECTION: therefore, ERR-ANALYS is missing.  
REFERENCE  
 According to COMMENT in subwork .005 the reference Ann. Phys. should be added.  
STANDARD  
 Missing.

10159.009           ?   ANALYSIS  
 Text unclear: from a spline fit of 125 data points?

    .010,011           DATA  
     .019              Blank out the zeros in the DATA-ERR columns.

    .010,011           STANDARD/STATUS  
 Unclear: how can one normalize elastic cross sections to total nonelastic if the nonelastic cross section is not known as it is derived from the elastic to be normalized?

    .018              SUBENT  
 Missing (1-H-3,TOT)?

    .020              BIB  
 Line 4: Total-elastic.

    .021              COMMENT  
 Should be STANDARD .

METHOD  
 Left-right asymmetry or magnetic field rotation missing.

10162.001           GEOMETRY  
 Obsolete: move under DETECTOR.

    .002              ISO-QUANT  
 Should be (... , NU, RES, PR/REL)  
 (see PART-DET in subwork .001 and EN-RES in DATA).

10168.001           N-SOURCE  
 Misspelt.

                      ?   Thermal column?

STANDARD/METHOD  
 Missing.

    .002,006           ?   DETECTOR  
     .007              Also Moxon-Rae detector?

    .002-008           DATA  
 EN-DUMMY should be 0.0253 eV.

10189.001            STANDARD  
Missing.

.002                ISO-QUANT  
Should be (6-C-0,EL,DA).

.003                COMMENT  
Should be CORRECTION.

10212.001           DETECTOR  
Missing.

.002                METHOD  
Missing.

DATA  
Independent variable repeated:  
8.0465E01 and 8.0665E-01 MeV.

.003,004           DATA  
Many independent variables repeated.

?                    Lines in subwork .003 correspond to fits  
(5 lines each) in subwork .004, except for  
750 keV where there are 3 lines in subwork  
.003 and 4 fits in subwork .004. One line  
forgotten in subwork .003?

.004                ISO-QUANT  
Should probably be:  
((94-PU-239,EL,LEG,RS)+(94-PU-239,INL,LEG,PAR/RS))  
Lines 5 to 8 of subwork .003 should also appear  
here (why not in DATA/Common?).

STANDARD  
Drop code.

10227.001           STANDARD  
Absolute.

ERR-ANALYS  
Unclear: what are TAC window shifts?

.002                STATUS  
Add free text.

METHOD  
Drop TOF (already in subwork .001) and add  
transmission (see TITLE).

10227.002            DATA  
EN-ERR should be EN-RSL.

10237.001            BIB  
Line 11: Evaporation misspelt.

                    .002,003            GEOMETRY  
Should become DETECTOR (obsolete).

                    ?            ERR-ANALYS/DATA  
What is the relation between the errors mentioned in BIB of subwork .002 and DATA in subworks .002 and .003? There is no agreement between any numbers.

                    .003            COMMENT  
Should not these values be taken out of this subwork and the 'total errors' given as DATA-ERR2 in the subwork .002 instead of coding the values twice?

STANDARD  
What is 'previous' data set? Please formulate independently of the EXFOR transmission format. At the four centres the order of the subworks is not generally preserved.

10242.001            METHOD  
Expand codes.

REFERENCE  
Add month (03).

10255.001            REFERENCE  
Add month (08).

10256.001            METHOD  
Expand TOF.

                    .004            A            COMMON  
   $\lambda=0$  assumed.

DATA  
Drop E from number format.

                    .004,005            ANALYSIS/ERR-ANALYS  
Missing.

                    .005            DATA  
-04 exponent forgotten in DATA/DATA-ERR.

10258.001

ERR-ANALYS/ANALYSIS

Missing.

METHOD

Wrong code TRANSM,: drop code.

.007,010

A

COMMON $\lambda=0$  assumed.

.008-010

A

DATA

Half-life 41.8 days assumed.

10260.002

ISO-QUANT

No competing reaction, so ABS should be NG.

10280.001

STANDARD

Absolute missing.

DETECTOR

Missing.

10290.001

REFERENCE

Add month (07).

.002,003

DATA

Drop E from number format.

.003

STANDARD

What is the difference between this and (92-U-235, NF) ?



TRANS 3003

30021.002

? DATA

Line 14: DATA=0.0. Is this correct?

TRANS 3005

30017.001

BIBLine 21: Cross section misspelt.

.001

DATA

±EN-ERR should be ±EN-RSL.

30037.001

GEOMETRY

Information from line 29 onwards should go under CORRECTION.

.002-015

COMMENT

The sentence concerning inscattering should go under CORRECTION; the rest under STANDARD.

BIB

Please do not mix up keyword order!

30055.002-004

STATUS

.006

'Entries' should be 'subentries': add also 'from double differential data in subentries ...'.

.007.010

BIB

Delete line 15.

30059.004

BIB

Line 6: 'TION....' dropped.

30061.001

REFERENCE

Line 6: Unclear - incomplete?

30073.001

BIBLine 19: Drift of amplifiers.A ANALYSIS

How is the reduction to the 2200 m/sec. cross section done? Or should there be an SPA modifier in the ISO-QUANTS; and should EN become EN-DUMMY? This is likely in view of the method used.

.007,009

SAMPLE

V2-O3, U3-O8.

30076.002,003

?

ISO-QUANT

.011-013

845 keV level belongs to Fe-56. Natural Fe means not corrected for isotopic abundance, so the Fe-56 cross section is about 9% higher.

.015-017

Is this true?

30076.003                    STATUS  
From Table 1 in PEL-180.

.005                        DATA  
Illegitimate lines: 79,121,122.

.006                        TABLE-NR  
Missing.

.007-010                    STANDARD  
.012-013  
.016-017  
Drop.

30092.002-005              FLAG  
.008  
Note by the compiler. Why do the compilers regard certain values as valid or invalid? It looks rather arbitrary.

.004-010                  A DATA  
What does EN DATA-CM mean? We interpreted it as EN-CM DATA.

30105.007,012              DATA  
Add half-lives.

30108.001                   PART-DET  
Code should be (AR).

30123.001                   REFERENCE  
Add month (05) to JNE, ...

30126.001                   COMMON  
E-RSL does not apply to subwork .002.

STANDARD  
Free text THC should be BI-212(TH-C) and THC' PO-212(TH-C').

GEOMETRY  
Should go under ERR-ANALYS with (ANG-RSL).

COMMENT  
Where are the data for IN-113 ?

30127.001                   SAMPLE  
Replace twice 'target' by 'sample'.

BIB  
Line 19: Channel misspelt.

- 30127.001 ERR-ANALYS/COMMON  
If the compiler is not sure of the value of EN-RSL it should be left out of COMMON.
- 30130.001 METHOD  
In view of the information under STANDARD and N-SOURCE, METHOD (ASSOP) should be added.
- .007 SUBENT  
As it stands it is a quite meaningless subentry. It should be organized as subentry .008 and at least contain the value mentioned under COMMENT of subentry .006.
- .008 FLAG  
Replace twice 'cross sections' by 'formula'.
- .010-011 EN-SEC  
Why not enter these values in COMMON ?
- .012 STATUS  
Can be entered under ANALYSIS as in subwork .006.  
Remove plural s in adjectives.
- .013-015 TABLE-NR  
'Data in subentries .013, .014 and .015'.
- 30135.001 TITLE  
This is the same paper as in entry 30105. Which is the correct title ?
- .004 DATA  
Add half-lives.
- 30136.004,008  
.013 DATA  
Add half-lives.
- 30137.002-007 ISO-QUANT  
Should be NG,RI.
- 30139.003,005 A DATA  
DATA-ERR units PER-CENT are ambiguous. We assumed absolute error.
- 30142.001 PART-DET  
This is an activation measurement. The fission fragments are equivalent to the residual nucleus in a non-fissile activation measurement and should not be entered under PART-DET.

30142.001

METHOD

Code (ACTIV) missing.

TRANS 3006

30016.001

TITLE

Why adapt the title ?

.001,002

HISTORY

R-flag used without justification in HISTORY.

.002

DATA/BIB

Why use R-flag here? Only EN-ERR has been changed to EN-RSL. We had therefore to compare the whole data section. Also, in the BIB-section the I-flag could have been used.

30018.001

ISO-QUANT

PAR should be RV.

30020.008

DATA

Resonance value should be 21.6 eV.

30057.001

STANDARD

Was hydrogen also used to obtain the cross section values in MB/SR/MEV ? If not, remove code. If yes, adapt free text.

A STATUS

Data taken from Priv. Comm. ?

ANALYSIS

Should be COMMENT.

ERR-ANALYS

... 10 - 20 PC...

.002-004

SAMPLE/ANALYSIS

.005-008

Should this not be repeated in subentries .003-004 and .006-008 ?

30060.002-009

MISC-COL/DATA

Use HL.

Add half-lives for ratios.

30067.016

DATA

Add half-life.

30071.003-007

COMMON

Enter levels 0. and 12 keV.

.004-007

STANDARD

Free text only (RS modifier).

30072.001

N-SOURCE/METHOD

Remove code THCOL. First paragraph of METHOD should go under N-SOURCE. The neutron source is in fact the converter plate.

.004-005

BIB

Line 5: X should be \*. Nice idea, 0/0 for PER-CENT, but 100 0/0 might be somewhat unclear.

30082.001

? INC-SPECT/ERR-ANALYS

Are the numbers under EN-RSL energy-spread FWHM ?

RESID-NUC

G-extension, as the half-life pertains to the ground state.

.003,006

.007

COMMON

Add half-lives.

30083.001

ERR-ANALYS

Partial errors add up to an error greater than 20%.

30084.002

DATA

Values of -EN-RSL should be positive.

30085.001

STANDARD

ABS should be NG for gold.

STAND1 and STAND2 should be repeated.

? COMMON

Is STAND2 also taken at an EN-NRM of 0.0253 eV?

.002

A DATA

Cut-off energy of 0.5 eV assumed.

ISO-QUANT

ABS should be NG.

30097.001

PART-DET

G should be DG.

INC-SPECT

Is EN-RSL in FWHM?

.002

DATA

Half-lives should be added.

30099.002,003

ISO-QUANT

Add PR modifier (neutrons and fission-fragments in coincidence - see subwork .001).

30100.005

DATA

30102.002

Was it necessary to use the R-flag here?

30104.001

STANDARD

According to free text, the code does not apply to any of the two subentries. Free text difficult to understand. Reformulate.

PART-DET

Code G should be AR (see METHOD), otherwise DG.

.002

DATA

Add half-lives.

30106.001

REFERENCE

Add month (10)

30110.001

BIB

Invert lines 16 and 17.

STANDARD

Free text unclear: which angular distribution is meant?

PART-DET

Add (B-) (see METHOD).

COMMON/STANDARD

Has to move to subentry .003: EN-NRM and EN-RSL can then be dropped.

Half-life should go into COMMON of subwork .001 instead.

30111.001

BIB

Line 19: Irradiation misspelt.

.002

ISO-QUANT

REL should be FCT.

DATA

H-LIFE: what is probably meant is between 0.5 and 0.6 sec.

0.6 and 1.8 sec. etc.

In that case, use HL-MIN and HL-MAX.



- 30121.003                    COMMON  
Put E = 10.3 MEV.
- 30138.002                    COMMON  
Add half-life.
- 30143.002-004                COMMENT  
      .006-011  
      .013-015  
First sentence belongs under ERR-ANALYS.
- 30144.003                    CORRECTION  
What has 27-CO-58 burn-up to do with  
22-TI-46 activation?
- 30146.003                    ISO-QUANT/COMMON  
Add PAR modifier and E-MIN = 12. MEV in  
COMMON.
- 30147.002,003                ? ISO-QUANT/COMMON  
What is the minimum gamma energy in order to  
ensure measurement of NG only?
- 30148.001                    GEOMETRY  
'Targets' should be 'samples'. Drop keyword.
- 30151.002,003                COMMON  
Add half-lives.
- 30153.002,003                COMMON  
TEMP is sample temperature only. Use MISC  
or invent new heading.
- 30154.001                    STANDARD/METHOD  
Associated particle method used? How was the  
gamma detector efficiency established?
- .009-016                DATA  
Add half-lives.
- 30155.002,004,007            COMMON  
      .009,011,012  
Add half-lives
- 30157.001                    STANDARD  
Add half-life in free text.
- .002                    DATA  
Add half-life.

30158.all  
(see also TRANS 3007)

GEOMETRY/COMMON/DETECTOR

ANG =  $0 \pm 60$  degr. must be wrong in view of the detector diameter:  $\arctg 0.75 = 37$  degr. Therefore, take authors' values 50 degr. FWHM i.e.  $35 \pm 25$  degr. HWHM everywhere.

Both ANG, ANG-RSL and EN,  $\pm$  EN-RSL are common to all entries and also to the level density parameter entries which have been derived from the spectra at that energy and angle. Level density parameters in general are energy- and angle-dependent, as are the spectrum shapes.

.001

GEOMETRY

Use sample instead of target (twice).

METHOD

TH-C(BI-212), TH-C'(PO-212).

STANDARD

Absolute in contradiction with the remark in subwork .010 (e.g.) under REFERENCE (P, INR-1401, 13, 7205). Does this mean that (26-FE-56, NP) is the standard? This must be an activation measurement as the 847 keV gamma belongs to Fe-56 and appears in the beta decay of Mn-56.

A compiler should be extremely suspicious about "absolute" measurements: with the exception of transmission measurements, they are relatively rare.

.010, 014  
.018

COMMENT

1. should go under EN-SEC and
2. under ERR-ANALYS.

ERR-ANALYS

Statistical misspelt.

.027, 028

STATUS

Subentry .014 and .018 respectively.

.002, 004, 006  
.008, 012, 016  
.020, 022, 024

COMMENT

Should be STATUS (UNOBT).

30159.003,004,006  
.007,009,010  
.012,013,015  
.016,018,019  
.021,022,024  
.025,027,028  
.030,031

COMMON

E-MIN = 3.75 MEV.

30160.001

REFERENCE

Add month (04) to ZP.

30163.001

COMMON

EN-ERR should be EN-RSL.

30168.003

?

CMPD-QUANT/DATA

Are MXW and EN-DUMMY correct?  
ANALYSIS suggests a 2200 m/sec. cross section.

30170.002

DATA

Lines 51, 56 and 64 invalid.

30175.004

DATA

Add half-life.

Small value: should it not be DATA-MAX?

30176.001

COMMON

Add half-lives.

TRANS 3007

30025.001

HISTORY

R-flag not documented.

30029.002,003

ANALYSIS/STATUS

Derived from subwork .004 and not from subwork .005.

Subwork .003 is dependent on subwork .005 and should be changed accordingly.

30056.001

STANDARD/ISO-QUANT/COMMENT

Delete STANDARD and COMMENT.

Add RSD modifier.

PART-DET

Expand.

ERR-ANALYS

Missing.

.002-006

DATA/Common

ARB-UNITS should be NO-DIM.

EN-ERR should be EN-RSL.

.003,005

DATA

Illegitimate lines with blank DATA-column.

ANALYSIS

Should be COMMENT.

In subwork .005 the text should be repeated and the reference to subwork .003 should be removed.

MISC-COL

Explanation of DELTA missing. I know at least two different definitions for the mixing parameter delta.

We suggest putting the contents of MISC-COL, ANALYSIS and the relevant numbers all under COMMENT.

30093.001

(see also TRANS 3009)

STANDARD

This is energy calibration: drop code.

ANALYSIS

Should go under the relevant subentries.

N-SOURCE

Any information about reactor n-source?

30093.002,004 .006	<u>ISO-QUANT</u> FAC should be FCT.
.003,005 .008	<u>ISO-QUANT</u> FAC should be RSD.
.007	<u>ISO-QUANT</u> Why not 'simply' ((92-U-235, NF, AKE, , FF)-(92-U-235, NF, AKE, TER, FF))?
.007,011	<u>DATA/ISO-QUANT</u> Is the 2.53E-2 eV value not some spectrum average? If so, these subentries should be broken up: EN should be EN-DUMMY and SPA or MXW modifier should be added to the ISO-QUANTS.
.009	<u>STATUS</u> Code (UNOBT) missing. If this is a mere remark in the article and there are no data measured, a note under COMMENT in subwork .001 or .008 is sufficient.
30101.001	<u>STANDARD</u> Remove.
.002,003 .005-018	<u>DATA</u> Half-lives missing.
.004,019-032	<u>NUC-QUANT</u> The nucleus should be that to which the quantity pertains. In this case it is the residual nucleus and not the compound, because that is the nucleus for which the spin cut-off parameter describes the spin distribution according to the theory of Huizenga and Vandenbosch. Compare Nucl. Phys., A122(1968) 234, section D (third line): <u>final</u> nucleus.
.004	<u>COMMENT/DATA</u> Is E-EXC the excitation energy of the residual nucleus? E-EXC should be E-EXC-MAX.
.013,030	<u>DATA</u> Use DATA-APRX.
.026,028	<u>DATA</u> Use DATA-MAX.
30140.001	<u>STANDARD</u> Not absolute - see 30089.002.

- 30162.001 COMMENT  
Drop (see subwork .003).
- .003 COMMENT/DATA  
Should be ANALYSIS.  
Why is the DATA-ERR = 0.04 not entered?
- 30164.001 COMMENT  
30165.001 Please add references.
- 30171.001-005 PART-DET/DATA  
Ask for half-lives.
- 30172.001 METHOD/STANDARD  
Standard is not absolute but Fe.
- 30173.001 BIB  
Identification part wrong !!!?? (line 6).
- .003 STATUS  
DEP is wrong, as the teflon cross section is not given. Subworks .003 and .004 contain inter-dependent data with correlated errors. STATUS should become ANALYSIS and ERR-ANALYS should give the reason for the higher (2%) error.
- 30177.002 HISTORY  
Second paragraph: date missing.  
Third paragraph should go under COMMENT.  
Angstroms are converted to Milli-eV and not to eV.
- 30183.001 ? METHOD  
Add code ASSOP?
- 30187.001 METHOD  
'Target' should be 'sample'.  
ERR-ANALYS  
Should read: 'Most of the error is due to ...'

TRANS 3008

30023.001

PART-DET

Missing.

30032.001

REFERENCE

30038.001

(C, 65ANTWERP, , 537, 6507).

30032.002-009

ISO-QUANT/DATA

REL should be FCT.

ARB-UNITS should be NO-DIM.

30065.002

DATA

Data heading FLAG blanked out.

30066.003,004

STATUS

The 14.67 MeV values should be flagged (DEP) dependent - see FLAG (2.). This would avoid breaking up the subentries for a mere STATUS.

30070.002,003

COMMENT/Common/STANDARD

COMMENT should be STANDARD (7-N-14, NA) + free text. STAND = 100MB in COMMON.

30074.001

STANDARD

Expand MFF.

30116.001-003

STANDARD/FLAG

Refer to entry 30186 for 14.7 MeV standard.

EN-SEC

This is an activation measurement, so the information should go under COMMENT and/or RESID-NUC.

.003

COMMENT

Should be STANDARD.

30118.001

STANDARD

Drop.

30137.001

INC-SPECT

Line 15: 1/E should read 1/V.

30184.001

?

STANDARD/METHOD

Is this not standard source?

ERR-ANALYS

Partial errors do not add up to the resulting error of 15%.

- 30184.008 ISO-QUANT  
Should this not be 20-CA-0?
- .013 COMMENT  
Occurs twice.
- 30185.001 STANDARD/METHOD/ERR-ANALYS  
See entry 30184.001.
- .002-011 SAMPLE/ISO-QUANT  
Why is isotopic abundance given at natural samples - because it was slightly different from the natural composition? If so, sample should appear in the NG, DE subentries too.
- 30186.001 COMMENT  
Refer to entry 30116, same reference.
- TITLE  
Why different titles for the same reference?
- 30191.001 STATUS  
Data taken from which reference?
- .002,004 SAMPLE  
Replace 10B by B-10.
- .003 COMMENT  
Unclear: is  $\text{Sigma}(\text{Th}) = 4 * \text{Sigma}(\text{Ex})$   
or  $\text{Sigma}(\text{Ex}) = 4 * \text{Sigma}(\text{Th})$ ?
- .006 ISO-QUANT  
In analogy with (3-LI-7, NNT) via  $\text{He}^5$  or three particle breakup (see LEXFOR light-nuclei reactions) this should be (3-LI-6, NND, DA, PAR).
- SAMPLE  
LI-F should be more readable.
- 30192.001 STATUS  
Data taken from which reference?
- .002 BIB  
Line 10: second 'cross' should read 'angle'.  
Line 11: from +60 to -60 degr. or from +30 to -30 degr.?
- 30193.004 COMMENT/STATUS  
COMMENT should be ANALYSIS and STATUS should have (DEP).



- 30195.005 PART-DET  
Expand.
- 30196.001 BIB  
Line 20: superseded misspelt.  
STATUS  
Expand NP/A.
- .005 RESID-NUC  
Check threshold / Q-value (see LEXFOR).
- 30197.003 ISO-QUANT/COMMENT/DATA  
ARB-UNITS should be MB/SR.  
ISO-QUANT should have FCT modifier in second term with free text 'Factor is abundance(37)/abundance(35)'.  
COMMENT should be reformulated and become ANALYSIS.
- 30198.001 BIB  
Line 23: Priv. Comm.  
PART-DET  
Code (RSD) for He-6.
- .002,003 RESID-NUC  
Parentheses missing.  
COMMON  
LVL = 0. MEV.
- .003 STATUS/COMMENT  
STATUS is (DEP) and COMMENT should be ANALYSIS.
- 30199.002-004 COMMON  
LVL = 0. MEV.
- 30200.001 METHOD  
ASSOP?
- 30201.001 N-SOURCE/STANDARD/PART-DET  
D(D,P)H-3: where are the neutrons?  
D(D,N)HE-3 looks better, but then what about the protons in STANDARD? Is there a known ratio P/N production? In that case 'absolute' should be removed and explanation in free text should be added.  
Delete (P) + free text (monitoring!).

- 30202.011            A    RESID-NUC  
 IN-116 has two metastable states: that of  
 HL = 54. Min. assumed.
- 30203.001            TITLE  
 Should not be an abstract. Leave out for  
 private communication.
- .003, 005            COMMENT/STATUS  
                   .007, 009            COMMENT should be ANALYSIS and STATUS  
   should have (DEP).
- 30206.001            SAMPLE  
 Impurities each less than .3% or altogether?  
 In the former case Fe should be deleted from  
 the list.
- 30208.001            STANDARD  
 Drop.
- .002            DATA  
 Units PER-CENT should be GAM/100N.
- .003-005        ?    ISO-QUANT/DATA  
 Add REL modifier or change ARB-UNITS in  
 GAM/100N.
- .004            ISO-QUANT  
 Spectrum modifier missing (EN-DUMMY in  
 subwork .001).
- .005            ISO-QUANT  
 Why SPA here? Spectrum description in subwork  
 .001 missing.  
 ING for thermal neutrons?  $\gamma$ -lines do not fit into  
 known level schemes of 1967 (Lederer, Table of  
 Isotopes, 6th Edition).
- DATA  
 First line illegitimate.
- 30209.001            METHOD  
 Code PLSED should be ACTIV. PLSED is for  
 buckling measurements.
- ?    COMMENT  
 Unclear: what is equal to  $2.9 \pm 0.4$  - the threshold  
 of the reaction leading to the ground state itself or  
 its difference with  $9.7 \pm 0.3$  MEV? I assume the  
 latter.

30209.002	<u>RESID-NUC/COMMON</u> Extension missing: half-life in COMMON. <u>DATA</u> Independent variable 9.4 MEV repeated.
30212.001	<u>REFERENCE</u> Where are the data from 2.1 to 2.9 MEV?
30213.001	<u>COMMON</u> EN-ERR should be EN-RSL.
.003,007 .009	<u>ISO-QUANT</u> ABS should be NG.
.005,010	<u>DATA</u> ? Should units be B/MEV?
.009	<u>DATA</u> Unit line missing, N1, N2 messed up.
.010	<u>DATA</u> Independent variable must not be blank.
30214.002	<u>STANDARD</u> Drop.
.003	<u>STANDARD</u> Value should go under DATA.
30216.001	<u>STANDARD</u> Drop.
.001,002	<u>ANALYSIS/DATA</u> Half-lives should go under DATA.
30217.001	<u>METHOD</u> Add TOF.
.002,003	<u>COMMENT/DATA</u> Add two subentries for interpolated 2200 m/sec. cross section values.

TRANS 3009

30036.001

INSTITUTE

Should be (3CHLSAN) - obsolete code.

STANDARD

Remove code.

30041.001

STATUS/FACILITY

Missing.

.003,006

HALF-LIFE

.008,009

-G extension missing.

.011

30046.004,005

ISO-QUANT

'94-PU-.....'

30124.001

GEOMETRY

Obsolete.

.002

DATA

Independent variables repeated: 61., 70., 117., 149., 152. and 278.keV, of which only 70.keV has different FLAG values.

30125.001

STANDARD

Drop code.

.002,003

DATA

More than one independent variable (EN and COS). Although this was strictly speaking agreed upon only for Legendre coefficients, we cannot see any reason why we should not accept this case too. It has formally the same structure.

30128.001

STATUS

Drop code.

30129.001

STATUS

Drop code.

.003

ISO-QUANT

Parenthesis on first line missing.

30188.001

STATUS

Drop code.

.004,005

ERR-ANALYS

.007

Missing.

30188.004,007      DATA  
EN-MIN = 0.6 eV of subwork .001 does not  
apply to these entries.

30189.001      STATUS  
Drop code.  
ERR-ANALYS  
Missing.

30190.001      STATUS  
Drop code.

30218.001      GEOMETRY  
30219.001  
30220.001      Obsolete.

30222.002      STANDARD  
Drop.

.003,004      STANDARD  
Drop code.

30223.001      STANDARD  
Absolute missing.  
STATUS  
Drop code.

30224.001      STANDARD  
Drop code.  
DETECTOR  
Missing.

30225.001-003      STANDARD/ISO-QUANT  
FCT/DL modifier missing: STANDARD can be  
dropped. Free text to explain FCT modifier.

30226.001      STANDARD  
Absolute missing.  
DETECTOR  
Missing.

30227.002-009      DATA  
Heading 'WVE-LN' is not unique if used for out-  
going energy. Should it not be replaced by E in  
this case? Units ANGSTROM is sufficient.

30227.004

DATA

Drop lines with no data.

.005

DATA

Independent variable repeated:  
1.03, 1.11 and 1.19 ANGSTROM.

30228.001

STANDARD

Drop.

DETECTOR

Missing.

.002-007

ISO-QUANT/DATA

REL modifier missing (ARB-UNITS).

30229.002,004

DATA

Independent variable repeated: 3.90E-3eV.

.005

DATA

Invalid data line: (136) 1.48E-2eV.

30230.001

DETECTOR

Missing.

30231.001

STANDARD

Absolute missing.

DETECTOR

Missing.

30232.001

DETECTOR

Missing.

TRANS 4002

40001.001

REFERENCE

(C,68DUBNA,... paper number between parentheses.

BIB

Line 13: STEHN misspelt.

Lines 18, 54: Private misspelt.

Line 29: should read 'Sample backing and sample holder'.

Line 32: 'foreign' should read 'other' or 'parasitic'.

Line 34: Target misspelt.

Line 37: Dependence misspelt.

Line 40: should read 'proton energy-spread'.

Lines 50,56: Does 'supporting' mean 'reference cross sections'?

Line 51: Measurement misspelt.

Line 58: Edition misspelt.

STANDARD/COMMENT

COMMENT information should go to subwork .002 under STANDARD.

To which cross section have the data been normalized? The Priv. Comm. probably contained Mn NG at 740 keV which were normalized to the new Iodide cross section (also NG at 740 keV). Is this correct? Enter the relevant codes.

The Uranium standard is used for the Ga-isotopes only and should move to subentries .003 and .004. Is this correct?

ERR-ANALYS

(EN-ERR) should be (EN-RSL).

STATUS

Drop code (PUBL).

.002-004

DATA

±EN-ERR should be ±EN-RSL.

.003,004

COMMENT

Information should go under STANDARD.

The cross sections given here are probably thermal cross sections for the same ISO-QUANT and the link has been done via U-235 fission (thermal) and U-235 fission (fast). Is this correct? Enter the relevant codes.

40001.003,004

COMMENT (cont'd)

Please state the reactor source information for the relative thermal measurements.

40010.001

BIB

Line 3: 'On subthreshold fission ...'?

Line 17: '... there are errors from ...'.

Line 18: Drop the comma; 'target' should be 'sample'.

Line 19: Drop 'error'.

DETECTOR

Add free text.

40011.001

STANDARD

Drop.

ISO-QUANT

(92-U-235, NF, AKE, FCT, FF) Ratio to thermal value.

STATUS/ERR-ANALYS

Add free text.

METHOD

Ratio of which counters?

.002

COMMENT

Should be STATUS (PRELM) + free text.

.002,003

DATA

ARB-UNITS should be NO-DIM.

40014.001

BIB

Line 16: polynomials misspelt.

Line 21: at 0 degrees (not O).

ERR-ANALYS

Free text.

.002-019

DATA

EN-ERR should be EN-RSL.

40015.001

BIB

Line 19: Isotopes misspelt.

Line 22: Movement misspelt.

.002,003

DATA

EN-ERR should be EN-RSL.



40020.001

BIB

Line 9: YFI-8,19.

40024.001

BIB

Line 23: 'Plural' should read 'multiple'.

Lines 26, 27: Series misspelt.Line 27: 'averaged over'.N-SOURCE

Free text missing.

40025.001

BIBLine 24: decrease misspelt.STATUS/N-SOURCE

Free text missing.

.003

BIBLine 7: series misspelt.

40028.001

STANDARD

Drop (irrelevant).

STATUS/N-SOURCE/PART-DET

Free text missing.

.002,003

DATA

.008,009

EN-RSL should be EN-RES-ERR (for resonance energies).

.007,013

ISO-QUANT/COMMON/DATA/STATUS

Only one spin value measured: therefore

Drop AV modifier.

Drop COMMON and enter EN-RES in DATA.

Enter '(DEP) from spin value and  $g * \text{Gamma}$  ( $\gamma$ )' under STATUS.

40033.001

BIB

Line 13: 'Impulses' should read 'pulses'.

REFERENCE

Can now be written as (C,70HELSINKI,2,167,7006)

PART-DET

Add (N) neutrons.

40033.002,003

ISO-QUANT/DATA

The value at EN = 0. is spontaneous nu-bar and has a different ISO-QUANT: SF/NU,PR. So the subentries have to be broken up.

DATA

EN-ERR should be EN-RSL.

40034.001

STANDARD

Memo 4C-2/30 wrongly mentioned 40024.001. RATIO obsolete and incompatible with units.

N-SOURCE/PART-DET

Free text missing.

40050.001

STATUS

Free text missing.

METHOD

Transmission method appears to be incompatible with the ISO-QUANT (INL). Is there any information concerning ANALYSIS?

SAMPLE

This cannot apply to subwork .002 (9-F-19).

BIB

Line 26: 'to' should read 'for'.

40055.001

PART-DET

Missing.

40056.001

PART-DET

Free text missing.

.002

DATA

Line 27: Is DATA = 1.95 MB correct, or should it be 19.5 MB?

TRANS 4003

40057.001

STANDARD

Cannot be absolute if normalization error is 15%  
(subwork .002). What is the STANDARD?

.002

BIB

Line 6: 'Absolutization' should be 'normalization'.

DATA

EN-ERR should be EN-RSL.

40058.001

REFERENCE

Should be (C,70HELSINKI,2,157,7006)

STANDARD

Should be (98-CF-252,SF/NU,,PR)

BIB

Line 22: Those misspelt.

Line 24: 'of    other isotopes'.

Line 29: 'background definition'.

ERR-ANALYS

(EN-ERR) can be dropped.

INSTITUTE/STATUS

Must be known as data are received from author.

40059.001

BIB

Line 11: deuterons misspelt.

Line 12: pulse misspelt.

Line 22: 'instability of apparatus'.

PART-DET

Free text missing.

40060.001

STANDARD/STATUS/PART-DET

Free text missing.

SAMPLE

Lines 28, 30: One of the two sample thicknesses  
must be wrong (the upper one?).

BIB

Line 46: 'Transparency' should be 'Transmission'.

40060.002

ISO-QUANT

Replace DRT by RAW (new convention).

BIB

Line 9: 'Transmission for resonance ....'

.002-004

STATUS

Should be Private Communication and not (PUBL) as stated in subwork .001.

40061.001

STANDARD/PART-DET

Free text missing.

.002-004

CORRECTION

ER+++ should be 'the ER+++ ion'.

'was changed' should be 'varied'.

.002-009

SAMPLE

.018-025

Replace zero by Oh in ER2O<sub>3</sub> and ER2(SO<sub>4</sub>)<sub>3</sub>

.005,007

SAMPLE

.008

Users do not know what 'subentry 40061002' etc. is, so please repeat isotopic abundance.

.005-009

STATUS

Free text missing.

A COMMONMomentum  $\lambda=0$  missing.COMMENT

Total width is not a constant: should it not be gamma width?

.008

DATA

Illegitimate lines without data should be entered in separate subentry with ISO-QUANT (....., EN, RES)

.017

ERR-ANALYS

This is not true: errors are given (0.8B). Maybe 'No further details given' is meant?

.018-022

BIB

Line 5: 'received' should be 'derived'.

STATUS

Add (DEP) dependent.

40061.023

COMMENT

Should be ANALYS.

.023-025

COMMONShould not ' $\rho=0$ ' be added, as all the resonances have it?

40062.002,003

COMMON

.006,007

Half-lives missing.

.002-006

N-SOURCE

.008

Neutron fluxes should be noted as e.g. ' $1.5E+13$  to  $1.0E+14$  neutrons/cm \*\*2/sec'.

.002-005

PART-DET

Free text missing.

.003

BIB

Line 11: 'Aurum' should read 'gold'.

.001

COMMON/COMMENT

.006-008

Explanation of headings STAND1, STAND2 etc. should go under STANDARD.

.004

A DATA/ISO-QUANT/SAMPLE/COMMON

The same value and error are given as in subwork .006, which is unlikely. In view of COMMENT in subwork .003, N-SOURCE in subwork .003 and .004 and STANDARD in subwork .004, we have assumed that the data value must be  $7200.0 \pm 300.0$  B as is the STAND1, STAND1-ERR in subwork .003 and that the ISO-QUANT must be (95-AM-242-M1, NF)

SAMPLE is correct, only 'after ... hours irradiation with a flux of ..... neutrons/cm \*\*2/sec' should be added.

Half-life has to be added in COMMON.

.007

N-SOURCE

Free text missing.

.008

COMMENT

Line 17: 'EN-MIN' should read 'EN-MAX'.

40068.001

N-SOURCE/METHOD

Free text missing.

40068.001

BIB

Line 13: Product misspelt.

Line 16: 'More' should probably read 'much'.

Line 29: 'That' should read 'The same'.

40073.001

STANDARD/PART-DET

Free text missing.

What does STANDARD absolute for alpha mean?

BIB

Line 30: centimetre misspelt.

ERR-ANALYS

EN-ERR should be EN-RSL.

.002-003

DATA

EN-ERR should be EN-RSL.

General

ERR-ANALYS

The heading has to be given in parentheses only when there is a remark about it and confusion could arise as to which item this remark pertains.

TRANS 4004

40070.001

Identification part

The ENTRY should have 4007000000001.

The SUBENT record should start with 1 and all the records should be numbered.

ENDBIB

NI should be 41 too.

STANDARD

Free text missing.

BIB

Line 26: expand PTE.

Line 41: cylindrical Li-F6 powder filter.

CORRECTION

Unclear - reformulate. We understood :

'For time-dependent background.

Time-independent background.

Room activity

Cosmic radiation

Natural gamma activity of the sample and room neutron scattering.

Background from U-238 and U-234 contaminations in the plates.

In order ...'.

Is this correct?

.002,003

ISO-QUANT

.....NF/WID,S0)

.010

DATA

In memo 4C-4/18 record 44 should be record 45.

STATUS/ANALYSIS

Is this derived as Gamma(fission)/Gamma(gamma)?

In that case, this should be stated under ANALYSIS, and STATUS should have (DEP).

.015

ISO-QUANT

....TOT/WID)

.025

ENDSUBENT

NI should be 19.

40070.025-027

ERR-ANALYSShould read 'explained by'.COMMENTShould read 'stated in'.

40071.001

N-SOURCE

Free text missing.

STANDARD

Absolute is in contradiction with free text.

? ERR-ANALYS

'Statistical errors' is true for the transmission measurements which are not given. Is this true also for the resonance parameters?

FLAG

Should go to the relevant subentries.

BIB

Line 7: should read 'Absolute normalization of gamma widths'.

Line 10: SM-149.

Lines 7, 31, 33, 34, 43: 'widths'.

Line 33: assumption misspelt.Line 39: resolution misspelt.

.003,009

STATUSShould this not be (DEP), as  $2g \cdot \text{Gamma}(n)$  is given?

.003,006

COMMON

.007

.009-012

Momentum  $\ell=0$  missing.

.005

ENDDATA

N1 should be 9.

.005,007

ISO-QUANTShould read (62-SM-.....

.006,007

? COMMON

Should not EN-MAX be 423 eV?

ENDSUBENT

N1 should be 15.

.008

DATA (Memo 4C-4/18)The record to be inserted after 00046 should be 104.7 0.3 20. 4.0 in view of the corresponding value in subwork .009.



.008.009            DATA  
 Invalid line for EN-RES=72.2 eV. Add subentry  
 with ISO-QUANT (... ,EN,RES).

.010,011        ?    COMMON  
 Should not EN-MAX be 134 eV in both subentries?

.011,012            COMMON  
 Headings have to be inverted.  
 Why not combined in one subentry?

40072.001            BIB  
 N2 should be 50.  
ENDBIB  
 N1 should be 50.  
ENDSUBENT  
 N1 should be 53.  
BIB  
 Lines 15, 16: '2, 4 or 6 mm'.  
 Line 26: '4 long counters'.  
 Line 45: 'Correction errors'.  
 Line 47: 'from inaccuracy ...'

.002-017            ISO-QUANT  
 ABS should be NG in view of the low energy (24 keV).

.017                ISO-QUANT  
 (83-BI-209,.....)

40074.001            BIB  
 Line 20: Water misspelt.  
PART-DET/DETECTOR/METHOD  
 Unclear. If METHOD is true, PART-DET is neutron  
 and the Sodium Iodide crystal is used for measuring  
 the activation in the Indium Chloride solution of the  
 activation detector.

.002-006            ISO-QUANT  
 ABS should be NG (at 24 keV).  
DATA  
 EN-ERR should be EN-RSL.

40076.001

N-SOURCE

Free text missing.

BIBLine 24: Weight misspelt.Line 27: 'On average neutron path-length  
in sample'.

Line 29: 'Exceeding' misspelt.

Line 30: '.... and error in standard cross section...'

40080.001

STANDARDWe agree with the proposal contained in Memo  
4C-4/18 but without code (free text only).N-SOURCE/INC-SPECTHow were these spectra obtained with a reactor?  
And which reactor was used?PART-DET/DETECTORHow were the neutrons measured with an ionchamber  
- via proton recoil, Li(n, alpha) or Boron(n, alpha)?

40088.001

ENDBIB

N1 should be 26.

ENDSUBENT

N1 should be 29.

BIBLine 4: 'Neutron scattering ..... on nuclei of' ...Line 14: Deuterons misspelt; 'on' should read 'of'.Line 22: 'Neutron absorption'.STANDARDHow is the measurement made absolute - by flux  
measurements, detection efficiency? (see 4C-2/36, p.3).ERR-ANALYS(ANG-RSL).

.002,004

ISO-QUANTShould this not be A=0 (natural)? For Ti this  
is given under SAMPLE; for Fe the abundance of  
Fe-56 is more than 90%, so enrichment is unlikely.

.004

ENDCOMMON

N1 should be 3.

.005

DATA (4C-4/18)

Record 00012 (and not 00011) should be dropped.

TRANS 4005

General:

Memo 4C-3/19 (from Vienna)

This memo has the wrong number (4C-4/18).

40027.002,003

BIB

Lines 13, 20 (in .002) and 12, 19 (in .003):  
'strange' should read 'other'.

Lines 21 (in .002) and 20 (in .003): isotopes  
misspelt.

PART-DET

Misspelt.

COMMENT

Information should go under STANDARD.

.002-005

DATA

EN-ERR should probably be EN-RSL.

.004

ISO-QUANT

Second item: add NF.

BIB

Line 6: Oxide misspelt.

Lines 10: '1-1.5\_percent.'

.005

BIB

Line 9: 1.5 percent.

40081.001

METHOD

Add code (ASSOP).

DETECTOR

Should read 'Five mica layers .....'

CORRECTION

The correction amounted to 4.0+-1.0% as the  
detector efficiency was 96.0+-10%. Should not  
this last number go under DETECTOR?

STANDARD

Free text missing.

BIB

Lines 5, 22: 'accompaning' should read 'associated'.

Line 36: Limits misspelt.

40084.001

GEOMETRY

'In the same plane' or 'on the same plate'  
(therefore back-to-back)?

Keyword is obsolete and information should  
go under SAMPLE.

METHOD

Line 20: add 'as Pu-240'.

.002-003

DATA

EN-ERR should be EN-RSL.

40090.001

METHOD

Add code TOF.

BIB

Lines 28, 29: should read 'could cause the cross  
sections to be too high by an amount of 2. PC  
for Dy-164 and 8. PC for Dy-162.

.002,004

SAMPLE

Isotope 161 is 94.2% (sum = 100%).

.002-013

SAMPLE

At (OXIDE) free text missing.

.004,007

ISO-QUANT

.010,013

ABS should be NG at these energies.

.011

BIB

Lines 5 and 6 inverted.

40094.001

FACILITY

Chopper used?

.003,005

DATA

.006

Units should be MILLI-EV.

.008

DATA

Decimal point missing under EN-MAX.

40097.001

ANALYSIS/ERR-ANALYS

Unclear free text under (HIST). We infer from  
ERR-ANALYS that the histogram method is applied  
to derive strength functions from neutron widths  
which could be calculated; hence <36 eV. Is  
this correct?

This should probably go under the strength  
function subworks.

40097.001

Under ERR-ANALYS we would prefer:

Lines 22, 23: 'due to very large level density of ...'

Line 24: 'number of omitted levels .....'

N-SOURCE/FACILITY

Chopper used?

.002-007

DATA

Units MEV should be MILLI-EV.

.003

BIB

Line 9: isotope \_ misspelt.

.003,004,006

SAMPLE

.007,010

The abundances given do not add up to 100%.

.003,006

DATA

Last line invalid (no data).

.005-007

?

COMMON

.011,012

 $\epsilon = 0$  missing?

.008-010

DATA

Resonance energies already mentioned in subworks  
.002-007 can be deleted.

40098.001

STATUS

Source of data missing.

N-SOURCE/METHOD

Remove codes (except TOF).

ANALYSIS

Unclear: see remark at subwork 40097.001,  
ANALYSIS, first two paragraphs.

Where were the Gamma 0(n) taken from?

BIB

Lines 8, 9, 12: 'Regime' should read 'mode'.

Line 16: NaI-Crystals misspelt.

Lines 18, 19: We would prefer '... 95 percent for  
each isotope measured'.

TRANS 4007

## General :

TRANS

Is TRANS 4006 still under way? If so, it should have a date between 09/11/72 and 05/02/73 (see Manual III.3: TRANS numbers (N1) should be assigned sequentially).

If the number is wrong (and should have been 4006), CCDN would prefer not to send 4006 or a second 4007 but to continue with 4008 and leave 4006 non-existent in aeternum.

40012.001

BIB

Invalid codes: PUBL, ACCEL, CRAT.

GEOMETRY

Obsolete keyword: change to COMMENT.

.004

DATA

Column 4: units NO-DIM misspelt.

40038.001

BIB

Invalid codes: PUBL, L-R, NONE.

40042.001

BIB

Invalid codes: PUBL, DIDET, ACCEL.

GEOMETRY

Obsolete keyword: change to COMMENT.

.005

ISO-QUANT

Nuclide should be 27-CO-59.

40047.001

BIB

Invalid codes: ABSOL, PUBL, ACCEL, TRNSS, SURBA.

GEOMETRY

Obsolete keyword: change to COMMENT.

.006

DATA

Headings (DATA-ERR, blanks) should be (DATA, DATA-ERR).

40069.001

BIB

Invalid codes: DIDET, IONCH, PUBL.

GEOMETRY

Obsolete keywords: change to COMMENT.

40069.001                    REFERENCE  
(R, INDC-232E): Ref date missing.

.002                    STANDARD  
Invalid code: ABSOL.

.003-009                    DATA  
Last column: heading and unit shifted.

.008                    BIB  
N1 should be 3.

40077.001                    DATA  
Line 20: Invalid number 23.0

BIB  
Invalid codes: DIDET, IONCH, PRIV.

GEOMETRY  
Keyword obsolete: information should go under  
DETECTOR.

.002                    STANDARD  
Invalid code: ABSOL.

DATA  
Independent variables 200., 350. keV repeated.  
Lines 27 to 34 out of order.

.003-005                    BIB  
N1 should be 3.

40078.001                    BIB  
Invalid codes: ABSOL, ACCEL, PRIV.

GEOMETRY  
Obsolete keyword: use COMMENT.

DETECTOR  
Missing.

40079.001                    BIB  
Invalid code: CRAT. APRVD misspelt.

GEOMETRY  
Obsolete keyword: information should go under  
DETECTOR.

REFERENCE  
(R, YFI-10, 17, 7105).

40079.001

BIB

N1 should be 17: if, however, GEOMETRY goes under DETECTOR, it should remain 16.

40093.001

BIB

Invalid codes: ABSOL, PRIV; REACT, TRNSM, HELIUM-3 SPECTROMETER.

Keyword ERR-ANALYS misspelt.

REFERENCE

Ref date missing in first reference.

.002

DATA

Line 88: Invalid number 1.113.

.006,008

ANALYSIS

Missing.

.007

ANALYSIS

Invalid code HIST.

.009

DATA

Column 2: heading shifted.

Column 3: unit missing.



TRANS 9013 (Dictionary tape)

Dict. 003

2JAPJAE

TOKYO should be TOKAI. ✓

2JAPOSP

SOKAI should be SAKAI.

Dict. 006

JAERI

TOKYO should be TOKAI.

Dict. 014

Why not remove the AV-modifier entries for the resonance parameters also?

Dict. 050

NDS/CCDN only

Add the following nuclides (on NDS tapes) to dict. 50:

1-H-4, 2-HE-5, 2-HE-6 and 27-CO-61

all with the unstable flag.

DAS/324-0

NOTE FROM CENTRAL REGISTRY

ATTACHED ENCLOSURE WAS RECEIVED WITHOUT COVERING NOTE

FROM: Hans Potters OECD, Enea

ADDRESSED TO: Schmitt

DESPATCHED ON: 8/II/73

SUBJECT: Memorandum 4C-2/34

- a Schmitt
  - Calamand
  - Durford
  - Lennel
  - Lemley
  - NDS
- + a encl