

MEMORANDUM 4C-2/45

Date : 20th September 1973
 From : Hans Potters *HP*
 Subject : Comments on EXFOR tapes

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Distribution

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

H. Potters

GENERAL

1. This memorandum reports the errors found by checking program in tapes 1013-1019, 3010, 4004 (Retr), 4006, 4008-4013.
2. We appreciate that CJD produced so many tapes among which their first retransmission tape. We noticed, however, that the tape number and date are not in the sequential series. This gives book-keeping trouble. We propose two possible solutions concerning TRANS 4004 (Retr.) :
 - a) We look upon this TRANS tape as TRANS 4014 with a date later than that of TRANS 4013 (730529)
 - b) CJD retransmit this tape under a new number making use of the opportunity to include further corrections from Memorandum 4C-3/69, 4C-4/18, 4C-2/35 and this memorandum.

May we hear from CJD which solution it prefers.

3. To our despair all centres start to make errors in N1, N2, etc. now ! We called them book-keeping errors and flagged them with a B. In general they upset our book-keeping program and give wrong results in the statistics. We managed to correct the mess partly directly in our administration ; partly, however, we had to correct the tapes, e.g. in the case of duplicate dataset numbers. We marked those cases as B, A and we asked the Originating Centre to approve at their earliest convenience the ad hoc measures we took.

We propose that in case of these type of errors, the whole entry will be retransmitted having the same accession number but that the subaccession numbers can be reassigned. We cannot come around to violate the rule that the data set number should be kept during the life of the subwork in this case.

./..

4C-2/45 (General cont.)

- 3 -

This proves one more that the book-keeping information, if it has to be handcoded, gives rise to errors messing up the system, or if it is created automatically has hardly any value to control the content of the tape. It should, therefore, be kept to an absolute minimum. (See memorandum 4C-2/42 ! ! !)

4. Missing bibliographical keywords were mentioned as far as we thought the information could be useful.
5. Invalid codes were all listed for convenience ; they are low priority corrections. Sometimes the code is followed by the correct code between parentheses.
6. We reduced the mentioning of "independent variable repeated" to the really suspicious cases.
7. We hope the centres will sent us back copies of this memo with their remarks as usual, as soon as possible.

4C-2/45

TRANS 1013

10079.002-004
.007,010
.011

ISO-QUANT
Add function parameter RES

.005,006
.008,009

ISO-QUANT
Add to dictionary 10 AHC and AFC
and to dictionary 14 AMC, RES and
AFC, RES (capture ?)

10112.001

DETECTOR
Invalid code LSCIN(SCIN)

STANDARD
EL, DA

.012

DATA
Independent variable repeated with
same data 30.49 Adeg.

10197.001

REFERENCE
Add NYO-73 to Report dictionary

DETECTOR
Invalid code LSCIN(SCIN)

STANDARD
Drop code

10228.001

FACILITY/DETECTOR/METHOD/STANDARD
Invalid codes REAC, FOIL, INTEG, RATIO

.002-009

DATA
Invalid numerical data (blank between + and 6)

GENERAL

B

ENDTRANS
NT should be 4

4C-2/45

TRANS 1014

10104.001

DETECTOR
Invalid code LSCIN(SCIN)

.005

ISO-QUANT
Add INL, LEG, 2L2 to dictionary 14

10105.001)
10106.001)
10107.001)

DETECTOR
Invalid code LSCIN(SCIN)

10127.001

METHOD
Invalid code TRSM, CAPTG

10228.001

FACILITY/METHOD/STANDARD
Invalid codes REAC, CDRAT, RATIO

10129.001

FACILITY/DETECTOR/ANALYSIS
Invalid codes REAC, SURBA, LSF

10160,002-005

COMMON
EN column : drop E

10257.001

FACILITY/DETECTOR
Invalid codes REACT, SPECM

STANDARD
Quantpart missing

10278.002

HISTORY
Missing

DETECTOR
Missing

10279.001

DETECTOR
Missing

10282.001

FACILITY
Invalid code REAC

ERR-ANALYS/DETECTOR
Missing

.003,005

METHOD
Missing

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TRANS 1014 (cont.)

10282.004

STANDARD
13-AL-27

10295.001

FACILITY/DETECTOR
Invalid codes REAC, BF3

GEOMETRY
Obsolete ; information should go
under N-SOURCE

STANDARD/ERR-ANALYS
Missing

10296.001

N-SOURCE/STANDARD
Invalid codes P-V51, ABSOL

4C-2/45

TRANS 1015

10022.001 GEOMETRY
 Obsolete ; information could go under
 METHOD

10023.001 FACILITY/METHOD/STANDARD
 Invalid codes ACCEL, NONE, STANS

GEOMETRY
 Obsolete ; could go under SAMPLE

10028.001 METHOD/DETECTOR/STANDARD
 Invalid codes NONE, CSCIN(SCIN)

10034.001 N-SOURCE
 Invalid code NONE

10039.001 FACILITY
 Invalid code REAC

GEOMETRY
 Obsolete ; could go under SAMPLE

10041.001 METHOD
 Invalid code CAPTG

10043.001 DETECTOR
 Invalid code PSCIN(SCIN)

10048.001 N-SOURCE
 Invalid code NONE

DETECTOR
 Missing

.086-088 COMMON
 Add Q-VAL-RSL to dictionary 24

.091 METHOD/STANDARD
 Invalid codes TRNSM, ABSOL

10049.001 DETECTOR
 Invalid code LSCIN(SCIN)

4C-2/45

TRANS 1015 (cont.)

10051.001	<p><u>DETECTOR</u> Invalid code BF3</p> <p><u>HISTORY</u> Invalid date : 710931</p>
.015-030	<p><u>ANALYSIS</u> Invalid codes HIST, LSF</p>
10052.001	<p><u>METHOD/DETECTOR/STANDARD</u> Invalid codes TRNSM, BF3, NONE</p>
10072.001	<p><u>METHOD, STANDARD, DETECTOR</u> Invalid codes TRNSM, ABSOL, BF3, LSCIN(SCIN)</p>
10073.001	<p><u>DETECTOR</u> Missing</p>
10074.001	<p><u>METHOD/DETECTOR/PART-DET/ANALYSIS</u> Invalid codes CAPTG, TRNSM, BORSL, LSCIN(SCIN), AA(AREA), SA(SHAPE).</p> <p><u>REFERENCE</u> NP/A, 163,</p>
10090.001	<p><u>STANDARD/DETECTOR/STATUS</u> Invalid codes NONE, PUBL, PSCIN(SCIN)</p>
10093.001	<p><u>GEOMETRY</u> Obsolete ; should go under N-SOURCE</p>
.002	<p><u>METHOD</u> Invalid code TRNSM</p>
.081	<p><u>STANDARD/METHOD</u> Missing</p>
10095.001	<p><u>METHOD/STANDARD</u> Invalid codes NONE, OTHER</p>

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TRANS 1015 (cont.)

- 10097.001 GEOMETRY
 Obsolete ; information could go under
 METHOD, DETECTOR and SAMPLE

- STANDARD
 Invalid code STANS

- 100114.001 METHOD
 Invalid code TRNSM

- 10125.001 FACILITY
 Invalid code REAC, IONCH

- GEOMETRY
 Obsolete ; should go under DETECTOR

- 10131.001 FACILITY/N-SOURCE/STANDARD/ERR-ANALYS
 Invalid codes NONE, REAC

- DETECTOR
 Missing

- 10135.001 DETECTOR
 Invalid codes P-N, RECC, PSCIN(SCIN)

- 10136.001) METHOD/DETECTOR/STANDARD
 10137.001) Invalid codes TRNSM, ABSOL, CSCIN(SCIN)

- 10139.001 FACILITY/N-SOURCE/STANDARD
 Invalid codes SYNCY, P-PB, ABSOL

- 10140.001 METHOD/ERR-ANALYS
 Invalid code NONE

- GEOMETRY
 Obsolete ; could go under DETECTOR

- 10141.001 N-SOURCE/METHOD
 Invalid codes BETAN, CAPTG

- GEOMETRY
 Obsolete, should go under DETECTOR

- 10148.001 DETECTOR
 Invalid code BF3

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TRANS 1015 (cont.)

- 10149.001 FACILITY/DETECTOR/METHOD
Invalid codes SYNCY, IONCH, NONE

- 10151.001 FACILITY
Drop

GEOMETRY
Obsolete ; should go under SAMPLE

- 10157.001 FACILITY/STANDARD
Invalid codes ACCEL, STANS

- 10171.001 FACILITY/METHOD/DETECTOR
Invalid codes REAC, CHSEP, SURBA

- 10172.001 METHOD/FACILITY/N-SOURCE/DETECTOR
STANDARD/STATUS
Invalid codes TRNSM, SYNCY, P-PB, BORSL,
NONE, PUBL.

- 10174.001 DETECTOR/STATUS
Invalid code PRIV, LSCIN(SCIN)

- 10175.001 METHOD/DETECTOR
Invalid codes NONE, IONCH

- 10179.001 DETECTOR
Missing

- 10191.001 GEOMETRY
Obsolete ; could go under METHOD

STANDARD
Invalid code NONE

- 10213.001 REFERENCE
Add BRL- to dictionary 6

METHOD/DETECTOR/STANDARD
Invalid code L-R, OSCIN, NONE,
GSCIN(SCIN)

GEOMETRY
Obsolete ; should go under DETECTOR

4C-2/45

TRANS 1015 (cont.)

10231.001

FACILITY/N-SOURCE
Invalid code NONE

10232.001

FACILITY/DETECTOR
Invalid codes BBFCH, DYNOM(DYNAM),
GSCIN(SCIN)

10234.001

DETECTOR
Invalid code RCTEL

GEOMETRY
Obsolete ; should go under
DETECTOR

10256.001

N-SOURCE/METHOD/SAMPLE/DETECTOR
Invalid codes BETAN, CAPTG, POWDR, NAI
(NAIGR)

ANALYSIS/ERR-ANALYSIS
Missing

4C-2/45

TRANS 1016

10049.001

DETECTOR
Invalid code LSCIN(SCIN)

.009-022

METHOD/STATUS
Invalid codes CAPTG, TRNSM, SIN, PUBL

.016, 017
.021, 022

FLAG
Invalid flag code

10217.001

REFERENCE
Add NASA-TN-D- to dictionary 6

PART-DET
Invalid code GAMMAS

FACILITY
Missing

10270.001

N-SOURCE/DETECTOR
Invalid codes BETAN, LSCIN(SCIN)

.002-005

STANDARD/ERR-ANALYS
Missing

.006-009

STANDARD
Code (s) missing

10303.001

REFERENCE
Add GULF-RT- to dictionary 6 and
deleted GULF-RT-A- from it or reference
should be (R, GULF-RT-A-12210, 7210)

N-SOURCE/DETECTOR/STATUS
Invalid codes G-U, BF3, IONCH, PUBL.

Invalid codes G-U, BF3, IONCH, PUBL.

Invalid codes G-U, BF3, IONCH, PUBL.

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TRANS 1017

10035.001

DETECTOR

Invalid codes IONCH, LSCIN(SCIN)

10062.001

ANALYSIS

Missing

10082.001

FACILITY/N-SOURCE/METHOD

Invalid codes ACCEL, P-PT, TRNSM

GEOMETRY

Obsolete ; should go under DETECTOR, N-SOURCE and SAMPLE

10249.001

?

STANDARD

Code Missing ?

PART-DET

Missing

.002-005

STANDARD

Code Missing

.003

DATA

Line 1728 out of order

10267.001

METHOD/DETECTOR

Invalid code DIDET, LSCIN(SCIN)

.002-004,)

STANDARD

.006-008,)

Missing

.010, 011,)

.013)

10272.001

DETECTOR

Invalid code BF3

10273.001

METHOD

Invalid code DIDET

10293.001

FACILITY/METHOD/DETECTOR

Invalid codes REACT, INTEG, FOIL, GSPEC(GELI)

10294.001

FACILITY/METHOD

Invalid codes REACT, INTEG

N
R
P
H
S
K

4C-2/45

TRANS 1017 (cont.)

10302.001

N-SOURCE

Invalid code BETAN

STANDARD/ERR-ANALYS/DETECTOR/PART-
DET

Missing

4C-2/45

TRANS 1018

10001.001

DETECTOR
Invalid codes LSCIN, SCINC(SCIN)

STANDARD
Quantity missing in code

METHOD/PART-DET
Missing

10002.001

DETECTOR
Invalid code LSCIN(SCIN)

PART-DET/STANDARD
Missing

10101.001

N-SOURCE
Invalid code BETAN

REFERENCE
(J, ANS, 13.....)

PART-DET
Missing

10143.001

FACILITY/METHOD/DETECTOR
Invalid codes REAC, INTEG, SPECM

STANDARD
Code (79-AU-197, NG, RI) missing

.019 B

ENDENTRY
N1 should be 19

10190.001

FACILITY/DETECTOR
Invalid codes TVDG, LSCIN(SCIN)

.005 B

ENDENTRY
N1 should be 5

10239.001

GEOMETRY
Obsolete, should go under DETECTOR

4C-2/45

TRANS 1018 (cont.)

10239.015

ISO-QUANT
(11-NA-23,.....)

B

ENDENTRY
N1 should be 15

10291.001

HISTORY/STANDARD
Missing

10292.001

HISTORY/PART-DET
Missing

STANDARD
Code (s) missing

General

B

ENDTRANS
N1 should be 11

I 2

J 5

K 8

L 9

M 5

N 7

O 5

P 8

Q 9

R 5

S 8

T 8

4C-2/45

TRANS 3010

30036.001

HISTORY
Invalid character (U) after date.

30191.006

ISO-QUANT
Add NND, DA, PAR to dictionary 14

B ENDENTRY
NI should be 2

30193.004

HISTORY
Invalid character (U) after date.

B ENDENTRY
NI should be 2

30198.001

HISTORY
Invalid character (U) after date.

30199.001

STANDARD
Invalid code NONE

.004 B ENDENTRY
NI should be 4.

30203.003-009

HISTORY
Invalid character (U) after date.

.009 B ENDENTRY
NI should be 5.

30208.002

STANDARD
Missing

30217.002

STANDARD
Invalid code ABSOL.

DETECTOR
Missing

HISTORY
Invalid character (U) after date.

30228.001

DETECTOR
Missing

HISTORY
Invalid character (U) after date.

TRANS 3010 (cont.)

300229.004,005

HISTORY

Invalid character (U) after date.

.005

B

ENDENTRY

NT should be 3

30231.001

HISTORY

Invalid character (U) after date.

30237.001

DETECTOR

Missing

30238.001

ERR-ANALYS/FACILITY/PART-DET

Missing

30239.001

ERR-ANALYS

Missing

.003

ISO-QUANT

.....NG)), (60-ND-148,

30240.001

ERR-ANALYS/STANDARD

Missing

30241.003

A

DATA

Binding energy 7.6. MeV assumed.

ERR-ANALYS/FACILITY/PART-DET
ERR-ANALYS/STANDARD
ISO-QUANT
DATA

TRANS 4004 retransmitted

General

B TRANS

Trans number and date should increase on subsequent tapes.
Only those subworks which have been changed should be retransmitted.

40070.001

STATUS/STANDARD/FACILITY/METHOD
DETECTOR

Invalid codes, PUBL, ABSOL, REACP, TRNSM, SIN, LSCIN (SCIN).

GEOMETRY

Obsolete, should go under METHOD.

.002-⁴005

ISO-QUANT

SO function parameter should be 50.

.015

ISO-QUANT

.....TOT/WID.

40071.001

STANDARD/STATUS/FACILITY/DETECTOR

Invalid codes ABSOL, PUBL, REACP, LSCIN (SCIN)

.005,007

ISO-QUANT

(62-SM-147,....

.008

DATA

Line:75 out of order

.011,012

COMMON

EN-MIN and EN-MAX headings inverted

40072.001)
40074.001)

STANDARD/STATUS/N-SOURCE/METHOD/
ANALYSIS

Invalid codes ABSOL, PUBL, SB-BE, TRNSS, DB

GEOMETRY

Obsolete, drop.

40072.001

B

BIB

N2 should be 50

40076.001

FACILITY/DETECTOR/STATUS

Invalid codes ACCEL, LSCIN (SCIN), PUBL.

.005

B

SUBENT

N1 should be 40076005

4C-2/45

TRANS 4004 retransmitted (cont.)

40080.001

FACILITY/METHOD/DETECTOR/ANALYSIS/STATUS
Invalid codes REAC, DIDET, IONCH, OPTM, PUBL.
STANDARD
Missing (ANALYSIS ?)

40088.001

STANDARD/STATUS/FACILITY/DETECTOR
Invalid codes ABSOL, PRIV, ACCEL, PSCIN(SCIN).
GEOMETRY
Obsolete ; should go under METHOD.

B BIB_n
N2 should be 29

.002 DATA
DATA-ERR misspelt.

.005 B ENDCOMMON
Missing

B DATA
Drop line 13 (with ANG-RES)

B ENDATA
N1 should be 13

.007, 010 DATA
ANG-RES should be ANG-RSL.

RECEIVED
LIBRARY
INTERNATIONAL
ATOM ENERGY
AGENCY
VIENNA
AUG 19 1975

4C-2/45

TRANS 4005

40081.001

BIB

Invalid characters (: and ;) in free text
lines 29, 31, 33, 34, 36, 38, 40, 41.

4C-2/45

TRANS 4006

40107.001

STANDARD/STATUS/FACILITY/DETECTOR
Invalid codes ABSOL, PUBL, ACCEL, PSCIN(SCIN)

GEOMETRY
Obsolete, should go under DETECTOR.

RESID-NUC
Misspelt

.002-007

DATA
H-LIFE should be HL

40108.001

ISO-QUANT
.....,ALF,,AV)

DETECTOR/STATUS
Invalid codes OSCIN(SCIN), GSCIN, PUBL.

GEOMETRY
Obsolete ; should go under METHOD and SAMPLE.

.002, 003

? DATA
Last line : EN-MIN = EN-MAX and Iso-quant averaged.

40109.001

STATUS/FACILITY/METHOD/DETECTOR
Invalid codes PUBL, REACT, TRNSM, BF3

.003

? DATA
Lines 28 and 30 should have 0.03 and 0.04 in the EN column ?

.004

B DATA
N1 and N2 shifted.

.005

B DATA
N1 and N2 shifted.
Line 24 should have 0.04 in EN-column.

.006

ISO-QUANT
Should be CMPD-QUANT

40110.001

STATUS/METHOD/DETECTOR
Invalid codes PUBL, DIDET, BF3.

GEOMETRY
Obsolete, should be put under DETECTOR.

4C-2/45

TRANS 4006 (cont.)

40115.001

METHOD/DETECTOR/STATUS

Invalid codes CRAT, IONCH, HE3SP, PUBL.

GEOMETRY

Obsolete, should go under STANDARD

40116.001

STANDARD/STATUS/FACILITY/METHOD

Invalid codes PUBL, REAC, STANS, DIDET

40117.001

STANDARD/STATUS/FACILITY/METHOD

Invalid codes OTHER, PUBL, REAC, DIDET

40118.001

STANDARD/STATUS/FACILITY/METHOD/DETECTOR

Invalid codes STANS, PUBL, REAC, DIDET, GELT(GELI)

40119.001

REFERENCE

Ref code should be JINR-P3-...

STATUS/FACILITY/N-SOURCE/METHOD/DETECTOR/ANALYSIS

Invalid codes PUBL, REACF, TRANSM, LSCIN(SCIN), HIST.

.003

B

DATA

N_i should be 5

.006

DATA

Line 57 out of order.

4C-2/45

TRANS 4008

40082.001

REFERENCE

Ref date missing in first reference.

STATUS/METHOD/DETECTOR/ANALYSIS

Invalid codes PUBL, TRNSM, SEPEX.

GEOMETRY

Obsolete, change to COMMENT

.017

ISO-QUANT

(42-MO-0,

.021

ISO-QUANT

(90-TH-232,

400111.001

STATUS/METHOD/FACILITY/ANALYSIS

Invalid codes PUBL, DIDET, ACCEL, STATM, LSF

PART-DET

Missing

40113.001

AUTHOR

Misspelt

REFERENCE

(R, JINR-P3-.....

STATUS/FACILITY/METHOD/DETECTOR/ANALYSIS

Invalid codes PUBL, REACP, TRNSM, CAPTG, SIN, LSCIN(SCIN), HIST, FERMI.

.002

B

NOCOMMON

Missing

B

ENDSUBENT

NT should be 19

.007

B

BIB

NT should be 3

DATA/COMMENT/ISO-QUANT

Drop COMMENT, AV-modifier and put EN-RES = 736 KEV (or is it EV ?) in the DATA section. Better delete subentry in view of .019.

4C-2/45

TRANS 4008 (cont.)

40113.008	B	<u>NOCOMMON</u> Missing
.009		<u>ISO-QUANT</u> Blank within parenthesis.
.022		<u>DATA</u> Line 58 out of order.
.024		<u>DATA</u> Line 50 column 2, decimal point missing.
.031		<u>DATA</u> Second column heading should be EN-RES-ERR
.046	B	<u>SUBENT</u> Invalid date 920920
.053		<u>NUC-QUANT</u> (60-ND-142,
.053-059		<u>DATA</u> Incident neutron energy omitted.
40114.001		<u>REFERENCE</u> 66 PARIS, ... Ref date omitted.
		<u>STATUS/METHOD/ANALYSIS</u> Invalid codes PUBL, TRNSM, SIN, CAPTG, HIST, OPTM:
.005		<u>DATA</u> Line 14 should be 251.29
40121.001		<u>STATUS/FACILITY</u> Invalid codes PUBL, ACCEL
		<u>ANALYSIS</u> Misspelt
40123.001		<u>ANALYSIS/STATUS</u> Invalid codes PWA, LSF, PUBL
40124.001		<u>STATUS/METHOD/FACILITY/ANALYSIS</u> Invalid codes PUBL, DIDET, ACCEL, LSF

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TRANS 4008 (cont.)

40124.001

B

BIB
NI should be 13

PART-DET
Missing

40130.001

STATUS
Invalid code PRIV.

FACILITY/DETECTOR
Missing

.002-005

PART-DET
Missing

4C-2/45

TRANS 4009

40021.001

STATUS/METHOD
Invalid codes PUBL, CRAT

PART-DET
Missing

.002

DATA
Line 61, column 3, decimal point.missing

40043.001

STATUS/METHOD/STANDARD
Invalid codes PUBL, L-R, ABSOL.

GEOMETRY
Obsolete, should go to N-SOURCE

.008

DATA
Drop EN column (see .001)

40044.001

REFERENCE
(J, JINR-....

STATUS/FACILITY/ANALYSIS
Invalid codes PUBL, REACF, REACP, LSF

GEOMETRY
Obsolete, move to METHOD.

B

BIB
NT should be 17

40048.001

STATUS/FACILITY/DETECTOR/ANALYSIS
Invalid codes PUBL, REACT, NONE, SUBTR

ERR-ANALYS
Missing

40049.001

ISO-QUANT
(3I-GA-0,SCT)

STANDARD/FACILITY/ANALYSIS/STATUS
Invalid codes ABSOL, REACT, SUBTR, PUBL.

ERR-ANALYS/DETECTOR
Missing

4C-2/45

TRANS 4009 (cont.)

40049.002

DATA

WVE-LN should be EN (Moskow 4-C-meeting)

400122.001

REFERENCE

68 DUBNA, Ref-date missing

STATUS/FACILITY/METHOD/DETECTOR

Invalid codes PUBL, REACT, TRNSM, BF3

STANDARD

Missing

.002-010

SAMPLE

Invalid codes METAL, COMI = .

40127.001

ERR-ANALYS/DETECTOR

Missing

.002-016

ANALYSIS

Missing

.024

DATA

Units NO-DIM for FLAG missing

40129.006

B ENDBIB

Missing

B ENDSUBENT

N1 should be 10

DATA

Decimal point missing in column 2.

.008

DATA

Heading FLAG shifted

40132.001

DETECTOR/STATUS

Invalid codes BF3, PUBL

B BIB

N2 should be 29.

4C-2/45

TRANS 4010

- 40028.001 INSTITUTE/FACILITY/DETECTOR/STATUS
 Invalid codes 4CCPDUB (4ZZZDUB), REACP,
 LSCIN (SCIN), PUBL.

B GENERAL
 This entry is a retransmission from TRANS 4002
 adding two more subworks without any indication
 in column 80.
- 40028.002 B BIB
 NT should be 3
- .006 COMMON
 3rd column Units NO-DIM
- .007 B NO COMMON
 Missing
- .008 B BIB
 NT should be 3
- B NO COMMON
 Missing
- .012-014 B,A SUBENT
 Subaccession number .012 occurs twice
 This error made the tape unprocessable ; so we
 changed subaccession number .012^{II} (NG/WID)
 to .013, .013 to .014 and .014 to .015.
- 40035.001 STANDARD/METHOD/FACILITY/DETECTOR/
STATUS
 Invalid codes STANS, DIDET, ACCEL, BF3, PUBL,
- 40036.001 METHOD/FACILITY/STATUS
 Invalid codes DIDET, ACCEL, PUBL
- .010 B DATA:
 NT should be 3
- .001-014 SAMPLE
 Invalid codes COMC =, POWDR
- .011-013 ISO-QUANT
 Should be (....., ING,, PAR)

4C-2/45

TRANS 4010 (cont.)

40036 .012

B ENDSUBENT
Misspelt ; Record number (col 75-79) should be 99999.

.014

B ENDBIB
Occurs second time after NOCOMMON.

40039.001

FACILITY/DETECTOR/STATUS
Invalid codes REACT, BF3, PUBL

.004

DATA
EN-MAX should be 0.17

40104.001

FACILITY
Misspelt

STATUS/FACILITY/N-SOURCE/METHOD/DETECTOR/
SAMPLE/ANALYSIS.
Invalid codes PUBL, REACT, COINCIDENCE(COINC),
LSCIN(SCIN), METAL, HIST.

REFERENCE
(R, JINR-P-2713,

.009

B BIB
NT should be 1

40105.001

STATUS/FACILITY
Invalid codes PUBL, ACCEL.

.002, 003

DETECTOR
Invalid code BF3.

.004

DETECTOR/PART-DET
Missing

.002, 003

.005-008

.015

STANDARD
(..... MXW)

SAMPLE
Invalid codes (No codes for SAMPLE since 8th
4C-meeting in Vienna).

.007

SAMPLE
Second line should start in column 13.

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TRANS 4010 (cont.)

40105.014	B	<u>DATA</u> N2 shifted.
.016		<u>SAMPLE/STANDARD</u> Invalid codes OXIDE, NONE
40125.001		<u>STATUS</u> Invalid code PUBL
.002		<u>DETECTOR/FACILITY</u> Invalid codes IONCH, REAC
.003		<u>METHOD/DETECTOR/FACILITY</u> Invalid codes CRAT, SURBA, REAC
40126.001		<u>STATUS/DETECTOR</u> Invalid codes PUBL, IONCH
		<u>ISO-QUANT</u> Should be NUC-QUANT
40133.001		<u>INSTITUTE</u> Invalid code 4CCPEEI (4CCPFEI)
		<u>GEOMETRY</u> Obsolete ; should go under SAMPLE
		<u>ENDSUBENT</u> Missing
.002		<u>DATA</u> Line 21, column 3, decimal point missing
.003		<u>DATA</u> Column 2 and 3 shifted
	A	Line 49, first column, should be .105400E+2 ?
.010-012		<u>DATA</u> Invalid numerical data (not right adjusted, decimal point missing) in column 3. .010 (line 20) .011 (line 44) .012 (line 16).
.019	A	<u>DATA</u> Column 1 of line 36 should be .377100E+1

4C-2/45

TRANS 4010 (cont.)

40134.001

GEOMETRY

Obsolete, should go under SAMPLE.

B BIB
N1 should be 15

.003

A DATA
First column of line 63 and 64 should have exponent 2.

.007

A DATA
First column of line 17 should have exponent 1.

A
e

7
11

P

a
o

o
o

e
a

a
a

u

u
n

n
n

r

A
e

7
11

P

a
o

o
o

e
a

a
a

u

u
n

n
n

r

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TRANS 4011

40022.001

FACILITY/DETECTOR/STATUS
Invalid codes REACP, LSCIN(SCIN),
BF3, PUBL.

.002-007
.009-012

SAMPLE
Invalid code METAL

.003

B NOCOMMON
Missing

B ENDSUBENT
N1 should be 18

.007

B NOCOMMON
Missing

B ENDSUBENT
N1 should be 27

.010

B DATA
N2 should be 4

.013

DATA
Second column, heading should be +DATA-ERR.

.016

B COMMON
N2 should be 3

.029-033

ANALYSIS
Missing

40026.001

FACILITY/DETECTOR/STATUS
Invalid codes REACP, LSCIN(SCIN), PUBL.

.002

DATA
Column 2 of line 37 ; decimal point missing

.009

ISO-QUANT
(....., AV)

.012

ISO-QUANT
(....., NG/WID)

.016

B DATA
N2 should be 1

4C-2/45

TRANS 4011 (cont.)

- 40030.001 FACILITY/DETECTOR/STATUS
Invalid codes REACP, LSCIN(SCIN), PUBL.

- .002 B, A SUBENTRY
Occurs twice. As this error made the tape unprocessable we have assumed that the second one (STF) should have subaccession number .008

- .008(002) COMMON
Data heading MOMENTUM L misspelt

- .011 DATA
Heading EN-RES-ERR misspelt.

- .019 ISO-QUANT
Comma missing.

- 40040.001 STATUS/FACILITY/METHOD
Invalid codes PUBL, ACCEL, DIDET

- COMMON
Heading EN-NRM misspelt.

- 40046.001 FACILITY/DETECTOR/ANALYSIS/STATUS
Invalid codes REACT, BF3, SUBTR, PRIV.

- STANDARD
Missing

- .002-004 SAMPLE
Codes invalid.

- .002 DATA
Line 42 (identical to 36) out of order.

- 40131.001 REFERENCE
(R, YFI-12, ...)

- STANDARD
Misspelt.

- .002-014 ISO-QUANT
....., ING,, PAR/SPA)

- .003 DATA
Units PER-CENT misspelt.

4C-2/45

TRANS 4011 (cont.)

- 40131.004 B ENDCOMMON
Missing

- B DATA
Repeated ; N2 should be 3

- B ENDDATA
N1 should be 5

- .007 B ENDCOMMON
Repeated

- B DATA
Missing, N1 =3, N2 = 6.

- B ENDDATA
N1 should be 8.

- .013 DATA^g
Units PER-CENT misspelt.

- .014 DATA^h
Units PER-CENT misspelt.
First column not monotonic

- 40137.001 REFERENCE
INDC-260 E..... Invalid Ref-date...

- DETECTOR
Missing

- .002, 003 ISO-QUANT
should be NUC-QUANT

- .002 B ENDBIB
Misspelt, N1 should be 5

- 40139.001 REFERENCE
Invalid Ref-date on last 3 references.

- .007-009 ? ISO-QUANT
(....., INL , , PAR) or (....., ING , , PAR)
according to free text ?

- .009 B DATA
N2 should be 8.
Lines 25 and 26 identical.

3
2
1

4C-2/45

TRANS 4011 (cont.)

40139.011

B COMMON
Heading line (E) missing.

B ENDCOMMON
N1 should be 3

B ENDSUBENT
N1 should be 27

.020

ISO-QUANT
Comma missing in first term.

40141.001

INSTITUTE
Missing

REFERENCE
Invalid Ref code P 15- (JINR-P-15- ?)

.002

NUC-QUANT/DATA
NUC-QUANT should include the ratio too.

n i
5 5
L I
5 5
3 4
4 4
F
E I
5 5
3 4
L I
5 5
3 4
E I
5 5
3 4

4C-2/45

TRANS 4012

40002.002

COMMON
Heading H-LIFE should be HL

40023.001

FACILITY/DETECTOR/STATUS
Invalid codes REACP, LSCIN(SCIN), PUBL

.004

B DATA
N2 should be 3

.006

B COMMON
N2 should be 3

B DATA
Heading line missing (DATA DATA-ERR ?)

B ENDDATA/ENDSUBENT
N1 should increase by 1.

.002, 003,)
.008, 009,)
.014, 025,)
.020, 021,)
.026, 027)

SAMPLE
Codes invalid

.010

B ENDCOMMON
SUBENT line preceding this record should be deleted,
N1 should be 3
Record numbering should be restored from this record
on

B DATA
DATA record missing ; N1 = 3, N2 = 1.

B ENDDATA
N1 should be 3

B ENDSUBENT
N1 should be 13

.015

DATA
First column of line 21 decimal point missing.

.016

ISO-QUANT
Misspelt.

4C-2/45

TRANS 4012 (cont.)

- 40023.019 NUC-QUANT
Misspelt
- .020 DATA
Heading DATA-ERR shifted
- .022 B COMMON
N2 should be 3
- .027 ISO-QUANT
Code shifted.
- .029 B BIB
N1 should be 2
- .031 B BIB
N2 should be 3
- B ENDENTRY
N1 should be 31
- 40032.001 FACILITY/DETECTOR/STATUS
Invalid codes REACP, LSCIN (SCIN), PUBL.
- 40045.001 DETECTOR/STATUS/SAMPLE
Invalid codes OSCIN(SCIN), PRIV, METAL
- 40095.001 METHOD
Invalid code DIDET
- GEOMETRY
Obsolete, already under SAMPLE.
- .007 COMMENT
Misspelt
- B ENDBIB
N1 should be 3
- .016-021 B,A SUBENT
from 4009501600030 up until 4009502100011
is displaced and should go after 4009501900004
Identification part should be changed for subaccession
number and record counter.
The following N1's should be changed :

V Y
C C
A T
E Y
H C

4C-2/45

TRANS 4012 (cont.)

40095.016-021

4009501600031	(ENDBIB)	N1= 3.
4009501699999	(ENDSUBENT)	N1=15.
4009502100016	(ENDDATA)	N1=21.
4009502199999	(ENDSUBENT)	N1=33.
4009501999999	(ENDSUBENT)	N1=20.

As this error made the tape unprocessable we had to correct this.

.030

DATA
Heading DATA shifted

.033

COMMON
Heading and units line inverted.

B DATA
Heading line missing(EN DATA)

B ENDDATA/ENDSUBENT
N1 should increase by 1

.046

ISO-QUANT
(....., ING,, PAR)

40101.001

STANDARD/STATUS/METHOD
Invalid codes ABSOL, PUBL, DIDET

B BIB
NT should be 15

A REFERENCE
Missing : Assumed (W, POPOV, 72)

.007, 011,)
.012,)
.015-017)

ISO-QUANT
Misspelt

40135.001

B NOCOMMON
Record blank.

STATUS
Missing

40136.001

INSTITUTE
Invalid code 4CCP

B BIB
N2 should be 19

4C-2/45

TRANS 4012 (cont.)

40136.001

STATUS/FACILITY
Missing

.002

DATA
Heading DATA misspelt

.009

DATA
Last two headings shifted

.013

DATA
Last number shifted

.016

B ENDBIB
Missing ; N1 = 2

B ENDSUBENT
N1 should be 10

.018

DATA
Spurious comma under DATA-ERR

.021

RESID-NUC
(82-PB-204 - M1)

B ENDBIB
Occurs second time after DATA record ; delete

B ENDDATA
N1 should be 4

B ENDSUBENT
N1 should be 12

BIB
What does the 3 in position 34 mean ?

.022

DATA
Headings of column 4 and 5 shifted

.027

ISO-QUANT
(8 - Q - 0, TOT)

40138.001

? INSTITUTE
Invalid code 4CCPKUP (4CCPKUR ?)

B NOCOMMON
Missing

4C-2/45

TRANS 4012 (cont.)

- 40138.001 B ENDSUBENT
 NI should be 21

- 40144.001 DETECTOR
 Missing

- .002-006 STANDARD
 Missing

- .007 B COMMON
 NI should be 2

1 1
 2 2
 3 3
 4 4
 5 5
 6 6
 7 7
 8 8
 9 9
 10 10
 11 11
 12 12
 13 13
 14 14
 15 15

4C-2/45

TRANS 4013

40003.001

STATUS
Invalid code PRIV

.002

COMMENT
Should be HALF-LIFE

COMMON
H-LIFE should be HL (and not HL 1)

DATA
Units 5th column PER-CENT misspelt.

B Line 15 occurs twice ; Line 14 missing

40004.001

STATUS
Invalid code PRIV
Third line should start in column 13

.002-004

COMMENT
Should be HALF-LIFE

COMMON
Heading H-LIFE should be HL

.002

COMMON
STAND-ERR2 should be STAND2-ERR.

.004

B BIB
N2 shifted

SAMPLE
Invalid code METAL

40142.001

ERR-ANALYS
Misspelt

STANDARD/DETECTOR
Missing

.002

DATA
4th column units shifted.

.004

B SUBENT
N1 =40142004, N2 (date) missing

4C-2/45

TRANS 4013 (cont.)

40143.001

REFERENCE
second line, ref-date missing.

SAMPLE
Invalid codes

.003

A DATA
Line 16, second column ; invalid numerical data 023 ; should it be 0.2 ?

.007

ISO-QUANT
Should be..., EL, POT)

40145.001

STANDARD
Missing

.002

B BIB
N2 should be 4

40155.001

STATUS/STANDARD/FACILITY/METHOD/DETECTOR
Missing

40157.001

REFERENCE
Last line, ref-date missing.

B BIB
N2 should be 23

ERR-ANALYS/FACILITY/METHOD/DETECTOR/
PART-DET
Missing.

.004

B DATA
N2 should be 6

40158.001

REFERENCE
INDC-64E, Ref-date missing.
ANL-TR- should be ANL-TRANS-

.004

B BIB
N1 should be 6

.005(U-233)

DATA
Heading first column should be EN

.005(U-235)

B, A SUBENT
This subwork is renumbered to subwork .006 as this error made the tape unprocessable.

4C-2/45

TRANS 4013 (cont.)

40158.005(U-235)

DATA

Units under FLAG should be NO-DIM.

40159.001

ERR-ANALYS/FACILITY/DETECTOR/PART-DET

Missing

.002

ISO-QUANT

Should be NUC-QUANT

1	0	1	1
2	0	1	1
3	0	1	1
4	0	1	1
5	0	1	1
6	0	1	1
7	0	1	1
8	0	1	1
9	0	1	1
10	0	1	1
11	0	1	1
12	0	1	1
13	0	1	1
14	0	1	1
15	0	1	1
16	0	1	1
17	0	1	1
18	0	1	1
19	0	1	1
20	0	1	1
21	0	1	1
22	0	1	1
23	0	1	1
24	0	1	1
25	0	1	1
26	0	1	1
27	0	1	1
28	0	1	1
29	0	1	1
30	0	1	1
31	0	1	1
32	0	1	1
33	0	1	1
34	0	1	1
35	0	1	1
36	0	1	1
37	0	1	1
38	0	1	1
39	0	1	1
40	0	1	1
41	0	1	1
42	0	1	1
43	0	1	1
44	0	1	1
45	0	1	1
46	0	1	1
47	0	1	1
48	0	1	1
49	0	1	1
50	0	1	1