

Memo 4C-3/78

To: Distribution 6 April 1973
From: A. Calamand and J.R. Lemley
Subject: I. Distribution of the final report on the 8th 4C-Meeting.
II. Recirculation of lists of Actions and Recommendations from the 8th 4C Meeting.
III. Reply to Memo 4C-1/32.

I. The Report on the 8th Four Center Meeting was given to the Agency's Publishing Section for reproduction on 6 April 1973 and will be distributed on or before 13 April.

II. As required in Action 23 of the last 4C Meeting, the lists of Actions and Recommendations are annexed to this Memo for recirculation two months in advance of the next meeting.

We also call attention to Document 4CM/VIII/X4 of the Report on the last Meeting, which contains actions on all Centers in addition to details required for maintenance of the EXFOR manuals and dictionaries. Because of the volume of this document, we hope that distribution of the final Report at this time will suffice for recirculation of the actions in 4CM/VIII/X4. Please note also that the List of Actions has been amended to include items from 4CM/VIII/X4.

Distributions: S. Pearlstein, NNCSC (5)
F. Fröhner, CCIN (5)
V.I. Popov, CJD (5)
All NDS

Clearance: J.J. Schmidt

W.

III. Reply to 4C-1/32.

All comments on page 1 of the memo have been incorporated in the final Report exactly as stated or as described below (page and paragraph numbers refer to the Report):

A. HALF-LIVES (Page 24)

The proposed bibliographical keyword HALF-LIFE has been deleted from the list appearing on page 24 of the Report. The detailed proposal on page 38 is reopened for discussion in 4C Memos and at the next Meeting. NNCSC should circulate arguments or counter-proposals soon.

B. Page 29, paragraph 25

We agree that compilers may not check consistently for the possibility of multiple reactions, but we think that the warning proposed in Paragraph 25 of 4CM/VIII/X4 should still be included in the LEXFOR entry Nonelastic.

C. Wavelength (Page 30, Paragraph 34)

We acknowledge the contradiction of the independent variable rule. Therefore Paragraph 34 has been deleted from the section of agreed changes to LEXFOR in the Report and has been moved exactly as stated to Paragraph 66, page 39, in the section on proposed changes. Since the problem of indexing and retrieval according to incident neutron energy remains, we welcome proposals for the next meeting which offer solutions consistent with the independent variable rule and with the rule that each line of a data table must contain data information.

D. Two-Dimensional tables (page 32)

We recall that at the last 4C-Meeting CCIN offered to contribute a proposal on two-dimensional tables; however, an additional proposal from NNCSC would also be welcome.

E. Paragraph 75 of the Draft Report = Paragraph 81 of the final Report. Accidental interchange of pages 20 and 21 in the draft report may have contributed to misunderstanding of this paragraph. After correcting the page order in the final Report and revising according to BNL suggestion, it was necessary to renumber the paragraphs on pages 20 and 21 only.

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F. Dictionaries

All changes suggested in the Memo have been made to pages 35 and 36 and will be included in the next dictionary update unless objections occur.

We think that PHD (pulse-height discrimination) would be more appropriately entered in Dictionary 21 (Method) where the code COINC (coincidence) also appears. For us there are other conceptual inconsistencies between these two dictionaries about which we shall inquire at the next Meeting. Although we have no interest in maintaining these dictionaries, an explanation of how they are used at NNCSC plus better definitions in LEXFOR would help us to prepare more consistent entries and to use the existing codes as intended.

LIST OF ACTIONS

<u>Action Number</u>	<u>Defining Paragraph in 4CM/VIII/MIN</u>	<u>Responsible Centre/person</u>	<u>Action pertaining to</u>
1.	3	all Centres	provide statistics on compilation for letter to Kolstad.
2.	10	NDS	inform INDC of problems of obtaining data from authors.
3.	13	all Centres	prepare recommendation to editors of journals about types of information which the Centres need to have included in journal articles.
4.	15	all Centres	prepare for the next meeting an agreement on common quantities and formats for the statistical reports of all centres.
5.	21	all Centres	acknowledge receipt of all tran-tapes promptly.
6.	24	NNCSC	revise EXFOR Manual page IX.2
7.	27	all Centres	investigate possibility of retransmitting only the BIB section of a subentry.
8.	34	NNCSC	submit condensed versions of Dictionaires 18,19,21-23.
9.	39	NNCSC	circulate publication schedule for BNL-325.
10.	41	NNCSC	prepare LEXFOR entry on types of gamma spectra data to be compiled; introduce new quantity codes if necessary.
11.	41	NNCSC	investigate priorities for compilation of gamma spectra data.
12.	41	NNCSC	investigate coordination of compilation effort with other groups who compile gamma spectra data.
13.	45	all Centres	improve the completeness of CINDA.
14.	48	Pearlstein	explore increase of U.S. CINDA effort with appropriate authorities.
15.	51	Tubbs	send CINDA-input check program to NDS.

<u>Action Number</u>	<u>Defining Paragraph in ACM/VIII/MIN</u>	<u>Responsible Centre/Person</u>	<u>Action pertaining to</u>
16.	53	CCDN	distribute a detailed proposal on machine addition of data index lines to CINDA blocks.
17.	62	NDS	discuss with INDC proposed annual publication of WRENDA.
18.	64	CCDN	evaluate the possibility of allowing more than one comment line per data-index line in CINDA.
19.	68	NDS	refer the topic of Common Evaluation Procedure to INDC.
20.	69	all Centres	send existing supplementary information for evaluated data files such as 2200m/sec values, 20° Maxwellian average cross sections, etc.
21.	79	Schmidt	inquire deadlines for next CODATA Compendium.
22.	79	all Centres	contribute to the CODATA Compendium according to guidelines obtained by Schmidt.
23.	82	NDS	recirculate List of Actions from this Meeting two months prior to next meeting.
	<u>Defining Paragraph in ACM/VIII/X4</u>		
24.	4CM/VIII/X4, Part I	NNCSC	Make the numerous revisions of the EXFOR manual agreed at the 8th 4C Meeting.
25.	4CM/VIII/X4, Part II	NNCSC	Make the numerous revisions of the LEXFOR manual agreed at the 8th 4C Meeting.
26.	4CM/VIII/X4, Part III	NDS	Make the dictionary revisions agreed at the 8th 4C Meeting.
	<u>Defining Paragraph in ACM/VIII/X4</u>		
27.	15	CCDN	submit LEXFOR entry on the RAW modifier.
28.	18	NDS	submit LEXFOR entry on <u>experimental methods</u> for fission-product yields.
29.	19	NNCSC	submit LEXFOR entry on all Polarization and Asymmetry quantity-codes.
30.	20	NNCSC	submit LEXFOR entry about Multilevel Resonance Parameters.

<u>Action Number</u>	<u>Defining Paragraph in ACM/VIII/XA</u>	<u>Responsible Centre/Person</u>	<u>Action pertaining to</u>
31.	21	NNCSC	submit LEXFOR entry listing all strictly monoisotopic and nearly monoisotopic elements.
32.	22	NNCSC	submit LEXFOR entry on independent variables.
33.	38B	CCIN	revise the LEXFOR entry on two-dimensional tables.
34.	38C	NDS	submit LEXFOR revision to include warning about references which contain superseded data.
35.	48-52	NNCSC	submit final shortened versions of Dictionaries 18-19, 21-23
36.	63	all Centers	transmit in EXFOR the important fission data listed in Memo 4C-3/48.
37.	65	NDS	submit shortened versions of the EXFOR/LEXFOR manuals.

LIST OF RECOMMENDATIONS

<u>Rec. Number</u>	<u>Defining Paragraph in ACM/VIII/MTN</u>	<u>Recommendation to</u>	<u>Recommendation</u>
1.	10	all Centres	tabulate statistics for data requests by Z-A-Quantity
2.	17	all Centres	communicate promptly information which might affect operations or scheduling of work at other Centres
3.	25	all Centres	comply as soon as possible with new EXFOR correction procedures involving Column 80 of certain records.
4.	29	NDS	produce itemized chart of errors found on EXFOR transmission tapes.
5.	30	CJD	use correct system identifiers.
6.	32	all Centres	continue development of EXFOR checking programs
7.	39	CCIN, NDS, CJD	transmit heavy nuclei data to NNCSC immediately; needed for BNL-325.
8.	40	all Centres	begin compilation of fission-yield data
9.	66	all Centres	prepare indexes of evaluated data exclusively from information released by the originating centre
10.	81	CCIN, NDS, CJD	request specific ENDF/B data sets simultaneously from NNCSC and USAEC when unreleased data has been used as a standard reference cross section
11.	82	all Centres	circulate new proposals at least 2 months prior to next meeting