**Nuclear Data Section**

**International Atomic Energy Agency**

**P.O.Box 100, A-1400 Vienna, Austria**

**Memo CP-D/1136**

**Date:** 12 May 2025

**To:** Distribution

**From:** N. Otsuka

**Subject: Revised Formats Manual, LEXFOR, Dictionary Manual (A5, A6, A7)**

In fulfilment of Actions 5, 6 and 7 of the NRDC 2024 meeting, I prepared the updated EXFOR Formats Manual (IAEA-NDS-207). LEXFOR (IAEA-NDS-208), and EXFOR/CINDA Dictionary Manual (IAEA-NDS-213). The conclusions from the NRDC 2023 and 2024 meetings are taken into account. They are available on the NRDC website.

**Summary of corrections**

EXFOR Formats Manual (A5)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paper** | **Concl.** | **Memo** | **Title** | **Chapt.** | **Remark** |
| WP2023-23 | C20 | CP-D/1053, CP-D/1055(Rev.) | STATUS: Format extension and LEXFOR revision | 7 |  |
| WP2023-25 | C22 | CP-D/1056 | Use of pointer for independent variable | 5,6 |  |
| WP2023-28 | C25 | CP-D/1071 | Omission of data type field (SF9) in MONITOR and ASSUMED | 7 |  |
| WP2024-12 | C13 | CP-D/1110(Rev.) | Proposal on revisions in manuals | 1,2,7,8, C |  |
| WP2024-24 | C26 | CP-D/1089 | Definition of TRANS N2 (date) and time stamp on NDS open area | 2 |  |
| WP2024-25 | C27, C28 | Addition to CP-D/1098 | Article collection and improvement of primary reference coding | 7 |  |
| WP2024-27 | C31, C32 | CP-D/1106 | BIB/BIB link by pointer | 5,7 |  |
| WP2024-30 | C6, C15, C16 | CP-D/1093 | Reproduction of EXFOR backups with new utility codes | 2 |  |
| WP2024-31 | C36 | CP-D/1094 | Retroactive production of EXFOR Masters | 2 |  |

CP-D/1069=WP2023-27 (DECAY-DATA and FLAG) is in A5. This proposal was rejected (C24) and not implemented in this revision.

Chapter 1: The record identification (Col. 67-79) has been explained as optional since Rev. 2011/01. But I could not find its approval in the summaries of the NRDC 2008, 2009 and 2010 meetings, and hence deleted “(optional)” from the manual.

Chapter 2: I renamed “exchange file identification” into “transmission identification” to be consistent with our actual terminology (“Trans ID”).

Chapter 7 “Reference”: I added the underlined words:

Author subfield: contains family name of the first author in uppercases. This field must be present.

For a thesis, the name of the institution awarded the degree must be entered in free text.

LEXFOR (A6)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paper** | **Concl.** | **Memo** | **Title** | **Chapt.** | **Remark** |
| WP2023-08 | C14 | 4C-3/0421 | LEXFOR “Scattering” | S |  |
| WP2023-31 | C28 | 4C-4/0233(Rev.) | Compilation of the zeroth order Legendre coefficients | F |  |
| WP2023-23 | C20 | CP-D/1055(Rev.) | STATUS: Format extension and LEXFOR revision | S |  |
| WP2023-24 | C21 | CP-D/1038 | Usage of ERR-HL and ERR-IDD | D | Decay data |
| WP2023-29 | C26 | CP-D/1072 | 209Bi(p,x) 211At cross section? - Secondary particle induced reaction | C | Corrections |
| WP2023-30 | C27 | CP-D/1076 | LEXFOR “Activation” | A |  |
| WP2024-12 | C13 | CP-D/1110(Rev.) | Proposal on revisions in manuals | F |  |
| WP2024-13 | C14 | CP-D/1111(Rev.) | Revision of LEXFOR “Partial reactions” | P |  |

EXFOR/CINDA Dictionary Manuals (A7)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Paper** | **Concl.** | **Memo** | **Title** | **Chapt.** | **Remark** |
| WP2023-11 | C17 | CP-D/1081 | Revision of EXFOR/CINDA Dictionary Manual and format change | 3 | All items other than “Proposal 1” are adopted in the 2023 Revision. |
| WP2024-09 | C10 | CP-D/1092(Rev.) | Structure of Transmission dictionary | 2 |  |
| WP2024-10 | C11 | CP-D/1105 | Exclusion of full stop from data headings and units | 3 |  |
| WP2024-11 | C12 | CP-D/1109 | Numbering scheme for compound codes | 3 |  |
| WP2024-12 | C13 | CP-D/1110(Rev.) | Proposal on revisions in manuals |  |  |

CP-D/1067=WP2023-09 (Dictionary 227) is in A7. This proposal has been already incorporated in the last version (Rev. 2023/05).

CP-D/1081=WP2023-11 (full review) in A7. Only “Proposal 1” was implemented since other proposal have been already incorporated the last revision

CP-D/1092 (Rev.)=WP2024-09 (Transmission dictionary): To be consistent with the EXFOR Formats Manual Chapter 1, (1) “Record identification field” was renamed to “Sequence number field”, and (2) the description on the N2 field of the ENDSUBDICT record was changed to “Always zero (0)|”.

**Distribution:**

nrdc-memo.distribution@iaea.org