

## Progress of Subgroup C (High Priority Request List: HPRL) in 2001

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### Progress in 2001-2002

The 2001 version of the HPRL, which was prepared by NEA/Data Bank, has been checked by the HPRI Group of the Japanese Nuclear Data Committee (JNDC) for updating the list. The detailed suggestions from JNDC checking are below.

Generally, it can be suggested:

- The 2001 version of HPRL should be kept as revised to keep the history.
- The next version (may be 2002 version) should be fully revised for the structure, request ID, the order of listing, etc. (Could you explain more on this please? Maybe give an example.)
- If the request is satisfied by evaluated files and/or experiments, the request should be removed. In this case, an additional list, say a "Satisfied List", should be prepared.

New entries are;

- N-14(n,g), cross section, 0.0253eV, 5%, To confirm the thermal value, since only the Mughabghab value is currently available. For fission reactor., Priority 1, Requester (T. Nakagawa (JAERI): nakagawa@ndc.tokai.jaeri.go.jp)
- Pu-240(n,g), cross section, around 1eV resonance, 0.5% or more, To confirm gamma-width of JENDL-3.3. For fission reactor., Priority 1, Requester (T. Nakagawa (JAERI): nakagawa@ndc.tokai.jaeri.go.jp)
- Am-241(n,g), cross section, 0.0253eV, 5%, To confirm the thermal value. For fission reactor., Priority 1, Requester (T. Nakagawa (JAERI): nakagawa@ndc.tokai.jaeri.go.jp)

### Suggestions from HPRI Group of Japanese Nuclear Data Committee (JNDC)

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| General   | If the column of originator is missing (purpose, priority, accuracy, energy range, etc.), it should be completed.<br>The request numbers should be rearranged in order to search for a requested target more easily. And rearrange the list as target-wise (Z-order?).<br>The sub-section, 6.A, should be checked by A. Koning.<br>The withdrawn items (4.A.13-14, 4.A.29, 4.A.34-41, 4.D.10, 4.H.37-38) should be removed or put into a "satisfied list". |
| 1.A.1     | Check the experimental and evaluation status.  |
| Section 2 | Create the real request list table for the readers.<br>If not, this section should be deleted.   |
| 3.A.1-15  | Met at 14 MeV?   |

- Check the experimental and evaluation status.  
 Evaluation has achieved in accuracy 20%.  
 It is necessary to ask to requester.
- 3.B.1 Is the reaction,  $\text{Li-7}(n,n'p)$ , mistaking  $\text{Li-7}(n,n't)$ ?  
 Satisfied by evaluated files?
- 3.B.3 Satisfied by evaluated files?
- 3.C.2-3 Sequential reaction. Some comments is required.
- 3.C.4-7 Difficult to measure. Check the request accuracy.
- 3.C.6-8 Sequential reaction. Some comments is required.
- 3.C.9-12,15 Satisfied? JENDL Dosimetry File 99 has 5% accuracy for 3.C.9.
- 3.C.16,18,19,22 Is it important? Check the priority and request accuracy.
- 3.C.18 Is  $\text{Sn-121}$   $\text{Sn-121m}$ ?
- 3.C.19  $\text{Sn-124}(n,g)$ ?
- 3.C.22 Move to after 3.C.19.
- 3.C.23 Check the present status.  
 Remove "because of their radioactivity" from comment.
- 3.D.1 Move to 3.A.  
 Check the request accuracy.
- 3.D.2-6 Move to 3.C.
- 3.D.5 Merge to 3.D.3.
- 3.D.7 Move to 3.C.  
 Why  $\text{Al-27}$  production?  $\text{Al-26}$ ?
- 3.D.8 Move to 3.C.  
 Check the request energy range and accuracy.  
 Satisfied?
- 3.E.1-12 Check the present status. Met?
- 4.A.1 Check the purpose and present status.
- 4.A.2,3 Check the present status.
- 4.A.4 Difficult to measure.  
 Check the purpose.
- 4.A.5,6 Check the present status.  
 Merge.
- 4.A.7 Check the present status.
- 4.A.8-12 Check the present status.
- 4.A.15,16 Check the present status.
- 4.A.17 Merge to 4.D.13.  
 Check the request energy range.
- 4.A.18 Merge to 3.C.23.
- 4.A.19-26 Satisfied?
- 4.A.27,28 Check the present status.  
 $(n,n''g) \rightarrow (n,n'g)$
- 4.A.30 Check the purpose.  
 Check the present status.
- 4.A.31 Check the present status.  
 $(n,n''g) \rightarrow (n,n'g)$
- 4.A.32 Move to 3.A.
- 4.A.33 Check the purpose.
- 4.B.2 Difficult to measure.

4.B.6	Check the purpose.
4.B.6-8	Check the request reaction, quantity, energy range and accuracy.
4.D.2	Check the request energy range.
4.D.5	Merge to 4.D.6.
4.D.15	Merge to 4.D.1.
4.D.26	Merge to 4.D.10.
4.D.28	Merge to 4.D.11.
4.E.3	Merge to 4.E.2.
4.E.5,6	Satisfied?
4.E.8,9,11	Check the purpose.
4.E.14	Merge to 4.E.13.
4.E.17	Merge to 4.E.16.
4.E.21	Check the purpose.
4.E.22-24,28	Check the present status.
4.E.29-33	Check the request energy range and accuracy.
4.E.32	Merge to 4.E.4.
4.F.9	Merge to 4.F.8.
4.F.12	Merge to 4.F.11.
4.F.14	Merge to 4.F.13.
4.F.16-18	Check the request energy range and accuracy.
4.F.17,18	Check the purpose.
4.F.20	Merge to 4.F.19.
4.F.22	Check the purpose.
4.F.23	Merge to 4.F.22.
4.F.32	Merge to 4.F.31.
4.G.1-3	Check the request energy range and accuracy.
4.G.4	Merge to 4.G.2.
4.G.4-9	Check the request energy range.
4.G.6,8	Merge to 4.G.5.
4.G.7	This number have two items. Merge into one.
4.H.1-3,5-7	Satisfied?
4.H.8	Check the present status.
4.H.12	Check the requester and priority.
4.H.17	Satisfied?
5.A.1,5	Move to 3.C.
5.A.2,9,10	Check the request accuracy.
5.A.8	Move to 3.B.
6.B.8,9	Difficult to measure.
6.B.12	This number is skipped.
6.B.22	Merge to 6.B.7.
6.B.30	Bi-209(n,g0)Po-210 → Bi-209(n,g0)Bi-210g "Po-210 Production" is added into comment.
6.C.9	Merge to 6.B.29.
6.C.42,43	Merge to 6.B.10.
6.C.57,58	Merge to 6.B.11.
6.C.64,65	Merge to 6.B.13.

References

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