Japanese Proposal for  
Progress of Subgroup C (High Priority Request List: HPRL)

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Progress in 2002-2003

The 2001 version of the HPRL, which was prepared by NEA/Data Bank (http://www.nea.fr/html/dbdata/hprl/), has been checked by the HPRL 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 has been separated into three lists, HPRL-J/R (Request List), HPRL-J/S (Satisfied List) and HPRL-J/C (Check List, which is a list of requests needed to be checked) with HPRL-J/Ref (References) as a starting point for discussion.
- The HPRL-J includes requests for all applications into one table with their purpose. The request ID number has been newly defined as Z*1000+A.number, and so on.
- In the list, new columns for “Achieved Accuracy” and “HPRL Priority” are added with no data (This should be discussed by SG-C).

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)

Proposal from HPRI Group of Japanese Nuclear Data Committee (JNDC)

- In general JNDC proposes to keep WPEC/HPRL activity with following reasons and efforts (revision).
- The HPRL is frequently used as a reference of measurement request, especially for the ISTC project proposal. In addition, HPRL is also referred to in the planning of new experiments proposed in Japan.
- To fill following items into the list: requesters’ name, proposes (for what specific application), priorities, accuracies, energy regions and other needed information.
- We agree with Nordborg’s suggestion as “we would need to organize a meeting with a limited number of selected persons who would revise the existing list or who would establish a new list”.
To check achieved accuracy, for example, discrepancy between evaluated files, and to compare with request accuracy. Then to define the SG-C priority with consideration that accuracy and to adopt the requests having only SG-C priorities equal to the first as HPRL. Other requests having SG-C priority equal to second or lower should be stored as "secondary list". Above is following to the comment of Nordborg, "A proposal to have a ranking system with a linear 'decay time' has been proposed, in which the ranking is lowered each year, unless the requester renews his request. In this way, unsupported or 'forgotten' requests would "slide off" the priority list after a number of years."

To separate the list into, for example, Request List, Satisfied List and Check List which is a list of requests needed to be checked. And in the purpose and/or comment columns, "measurement request" or "evaluation request" should be identified, since in some cases there are requests hard to measure.

Of course, the list should continue to be accessible on-line for people to provide feedback and comments on each request. JNDC and/or T. Fukahori (JAERI) can maintain the list at least once a year. This is the proposal for the Nordborg's suggestion, "we also need participation of people who can and will perform work related to the requests and who will indicate that through on-line feedback to the list".

We agree the following Nordborg's suggestion.

Once we have re-organized and/or revised the present High Priority Request List, we also need to agree on mechanisms on how to maintain the list. How do we for example:

- identify people who could work on a specific request?
- organize regular reviews/updates of the list?
- decide when a request is fulfilled or when it should be removed from the list?

Nordborg suggested "In conclusion, I feel that, if we are going to advance with the High Priority Request List, we urgently need to call a meeting where a limited number of well-informed and well-prepared nuclear data users get together to revise the existing list or to establish a new list. If you agree, I would appreciate if you could come to the next WPEC meeting prepared to suggest names of persons who should participate in such a meeting and when they are available for a meeting. Normally, such a meeting should be held in Paris." And we can agree. However if the meeting is held in Paris independent of WPEC, financial support of NEA is inevitable. Otherwise no one can attend such meeting, we believe.

We (JNDC) feel that the HPRL is important and useful. So even if WPEC decides HPRL is not necessary, we will continue to maintain the list as, for example, the "HPRL-J" based on the current HPRL within JNDC effort.