

**SUBGROUP ON HIGH PRIORITY DATA NEEDS**  
**FOR FUTURE ADVANCED REACTORS**  
**M. SALVATORES**

The input from the subgroup participants has started to shape. First input was provided by Y. KIKUCHI for Japan and by A.J. DERUYTTER for dosimetry data.

However, there is not yet a full picture, which takes into account data needs specifically oriented to future/advanced reactors and their associated fuel cycles.

Most of the data needs expressed are related to the different long-lived radioactive wastes transmutation concepts. The justification of data needs is expected to be expanded in the next few months.

The qualitative statements of Ref. 1, will be as far as possible quantified with respect to the present trends of the innovative reactor program in France.

The work plan proposed to the participants is attached, and a six months delay is expected with respect to the original schedule.

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**REFERENCE :**

- 1] M. SALVATORES  
"Medium and Long-term Data Needs for Advanced Fission Reactors"  
International Conference on Nuclear Data for Science and Technology  
JULICH, Germany, May 13-17, 1991

## ANNEX

### WORK PLAN FOR SUB-GROUP 9

- [a] Each contributor should provide a list of topics representing current priorities in National programs in the field of advanced/future reactor concepts, for which the data issue can be of relevance, even in an early stage of the related studies.

It should be clearly indicated what are the integral parameter (or performance characteristics), which can be affected by the poor data knowledge, and what isotope, data type, and energy range is potentially important.

These indications should be sent (step 1) to the coordinator and will be edited and distributed to all the members in the form of a list of isotopes, data types, energy ranges (step 2).

- [b] The members should provide a first rough estimate of the uncertainties as seen by the evaluators of each individual project, to be associated to the data mentioned in 1, and sent to the coordinator (step 3).

- [c] Target accuracies should also be specified on the basis of sensitivity studies, where practical, with indications of the impact of the uncertainties on specific integral parameters. These target accuracies will be sent from members to the coordinator, and circulated (step 4).

The agreement on this point can need an iteration among members.

Further expertise from reactor physics or fuel cycle experts can be needed on controversial points, if any. A final priority list will result and a report will be prepared (step 5).

- [d] Suggestions and recommendations will be given by the members on how to meet target accuracies (integral experiments, differential measurements, new evaluations), together with indications on desirable time scales. A report will be prepared (step 6).

Expected completion date of each step :

- Step 1 : end of 1991
- Step 2 : February 1992
- Step 3 : May 1992
- Step 4 : October 1992
- Step 5 : End of 1992
- Step 6 : March 1993