Conclusions and Recommendations



Ernst Warnecke; IAEA / NSRW "Workshop on Safety Assessment for Decommissioning of Research Reactors" Danish Decommissioning Risø, Denmark, 04 - 08 October 2010



International Atomic Energy Agency

Comments on the Workshop 1

- Very informative format and contents
- Very helpful information
- Good selection of lecturers who had good experience and qualification
- Presentation of realistic approaches and practical experience was appreciated
- The overview lecture on safety assessment framework was very helpful as it included also information on the application of safety assessment in the DeSa and FaSa Projects
- Sufficient opportunities to learn from each other, particularly in the practical exercise

Comments on the Workshop 2

- The workshop and the practical exercise were useful for participating countries and should help them to improve national situations
- The venue was appropriate because of the available experience in decommissioning
- Participants could prepare themselves for a workshop if one or two overview articles on the workshop subject would be provided in advance
- Good selection of the location of the WS as the local equipment could be seen as it was in use
- Danish Decommissioning organised the WS perfectly well

Comments on the Practical Exercise 1

- The practical exercise
 - was very useful and well structured;
 - was associated with the Risø site;
 - was truly 'practical';
 - demonstrated the importance of safety assessment for choosing the appropriate dismantling techniques, taking into account the radiological consequences to workers, the public and the environment;
 - fostered the team work and the collaboration on a given task; and

improved communication among participants.

Comments on the Practical Exercise 2

- Continue to put emphasis on practical exercises
- The lecturers were very well associated with the practical exercise
- It should be considered to distribute the practical exercise in advance of the workshop
- Can a practical exercise for the evaluation of a license application and strategy be used in evaluating an application?



New and useful Information

- The deep assessment provided a lot of new information
- The main steps to for conducting a safety assessment and the iterations among steps
- The need for and implementation of characterisation to provide the necessary input for a safety assessment
- The identification of industrial hazards
- Danish Decommissioning provided a lot of very useful information / documents / reports
- The Danish case shows that good co-operation between regulators and operators is very efficient without compromising independence

Main / Difficult Issues

- It is very difficult to determine / make available reliable data necessary for a safety assessment
- As a result of the peer review it is sometimes difficult to 'understand' the facility



Situation in Participating Countries

- Peer review of national situations was very useful and shows that national situations need further clarifications / improvements
- Peer review provided useful input for the clarification / improvement of national situations
- National reports were provided in advance of the workshop. That was very useful for carrying out the review
- The exchange of information between countries should continue, also in a bilateral manner
- The achievements of Danish Decommissioning were very much appreciated
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Recommendations to Participating Countries

 Participating countries should prepare a decommissioning plan, including safety assessment, for each nuclear facility in order to comply with international recommendations



Recommendations to IAEA

- The R²D²P website should be maintained. It is informative and useful and gives an opportunity to review what has already been done
- The website is useful in its present form
- The IAEA should hold more workshops in Denmark
- Danish Decommissioning is able to provide a lot of output with a small team



How to Proceed in the R²D² Project

- The next item in the workshop schedule would be the 'review of a decommissioning plan'
- Such a plan should be provided by one of the participating countries
- Indonesia and China will check the availability of a decommissioning plan by mid 2011
- Philippines and Malaysia will not have such a plan available by mid of 2011; Vietnam may have a plan ready by the end 2011
- 'Security' and the 'Management of decommissioning waste' should be added to the list of workshops
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THANK YOU



