



INTERNATIONAL ATOMIC ENERGY AGENCY

**COORDINATING WORKING GROUP
MEETING OF THE DESA PROJECT**

Finalization of the Outcomes of DeSa Project

Evaluation and Demonstration of Safety during Decommissioning of Nuclear

Facilities (DeSa Project)

Co-ordinating Group Meeting

ASN office, Lyon, France

21 to 25 January 2008

K. Percival, Chairman, United Kingdom

(February 2008)



CONTENTS

- 1. Introduction**
- 2. Work Performed**
- 3. Outcomes**
- 4. DeSa Follow-up Project**

APPENDICES

- Appendix A Agenda for Lyon Coordinating Group Meeting
- Appendix B List of Participants



1. Introduction

1.1 Project Overview

The international project on the *Evaluation and Demonstration of Safety during Decommissioning of Nuclear Facilities (DeSa)* was launched in November 2004 with the aim of developing a harmonized and robust methodology for the safety assessment of decommissioning activities that includes the identification of the necessary safety control measures and the demonstration of compliance with regulatory requirements and safety criteria. During the three years the project involved over a hundred experts from over 30 Member States. In this way the DeSa project also provides an effective international forum for the exchange of experience and good practices in the field of safety assessment, application of the graded approach and the regulatory review of safety assessments.

The IAEA intend to publish all the DeSa reports (six) as one overall report in 2008, consisting of 4 volumes. In addition to the main DeSa report (volume 1) that describes the safety assessment methodology for decommissioning, its application to three different test cases will be presented in volume 2, the application of a graded approach to all aspects of decommissioning safety assessment in volume 3 and the regulatory review process in volume 4. The demonstration of the practical application of the DeSa methodology will be provided in volume 2 through three test cases covering a Nuclear Power Plant, a Research Reactor and a Nuclear Laboratory.

With the substantial completion of the assessment methodology report the emphasis at the 4th Joint DeSa meeting from 29 Oct to 2 Nov 2007, was focused on the review and further development of the three test cases, regulatory review procedure and development of the recommendations on the application of the graded approach. Since the 4th Joint DeSa meeting each the members of the Coordinating Working Group have been finalizing each of the DeSa report volumes taking into account all comments and recommendations received before mid Jan 2008.

The Coordinating Working Group of the DeSa project held a meeting from 21 to 25 Jan 2008 in Lyon, France. The meeting was kindly hosted by the French nuclear regulator (ASN). The meeting was chaired by K. Percival, UK and followed the agenda presented in Appendix A. The list of participants in the meeting is enclosed in Appendix B.

1.2 Scope and Objectives of the Meeting

The purpose of the meeting was to carry out final editing of the six draft reports and the draft executive summary and to bring these reports to finalization (4 volume Safety Report), ahead of the IAEA's publication process. The report will be published as IAEA Safety Report with ref number DD741. The work involved was carried out as a team effort to ensure consistency between the volumes with appropriate cross referencing and a consistent use of terminology.

An Executive Summary for the overall report had been produced as a draft prior to the Feb 2008 meeting, and this needed to be reviewed and finalized.

The key 'Lessons Learned' from all aspects of the project were to be reviewed and finalized now that a complete set of volumes was available.



A technical visit was arranged by ASN to Superphenix at Creys Malville. This is a commercial size liquid metal cooled fast reactor power plant, which is now undergoing decommissioning under the project management of its operator EDF.

During the 4th Joint DeSa meeting there has been considerable interest expressed by a number of Member States in a follow-up project with the aim of providing further guidance on other types of decommissioning projects and facilities. This project will also more fully explore the whole decommissioning life-cycle. The Coordinating Working Group reviewed and provided comments on the draft terms of reference for the DeSa follow-up project that was prepared at a consultants meeting in Dec 2007.

2. Work Performed

The meeting was opened with a welcome from O. Lareynie (ASN), and then the participants reviewed the status of the individual draft DeSa reports and agreed the work to be undertaken during the week. It was emphasized that all Volumes and the Executive Summary should be finalized with little or no work being carried over, in order to meet IAEA's publishing timetable.

The meeting opened with an updated presentation by B Batandjieva on IAEA documentation for decommissioning, and this was followed by a status review presentation by each of the Working Group chairmen on their respective documents. From these and subsequent discussions, the weeks work programme was established.

The finalization of each document was led by the Chairperson of the respective Working Group. The new executive summary had been drafted by K. Percival, but developed at the meeting following coordinating group comments, by B. Batandjieva. The lead person on each document was as follows:

- Safety Assessment Methodology (Volume 1) – K. Percival;
- NPP Test Case (Volume 3) – P. Manson;
- RR Test Case (Volume 3) – J. Kaulard;
- Nuclear Laboratory (Volume 3) – A. Joubert;
- Graded Approach (Volume 2) – S. Thierfeldt;
- Regulatory Review (Volume 4) – R. Ferch;
- Executive Summary and DD741 Structure - B Batandjieva.

O. Lareynie of ASN took the lead in further developing the terms of reference for the DeSa follow-up project.

A review of the draft executive summary was undertaken to ensure would adequately address all the key matters from the individual reports. The key lessons learned for the executive summary and the other resorts were also discussed and agreed.

The main part of the week was occupied by amending the six draft reports to bring them into line with each other, dealing with comments, ensuring consistent terminology, and developing lessons learned.



The draft terms of reference setting out the purpose and specification for the DeSa follow-up project was reviewed and recommendations made to assist in its finalization.

3. Outcomes

The prime outcome of the weeks work was a revision to each of the draft DeSa reports identified in Section 2 above, to a level where each of them was ready for handing over to IAEA's publication system. A foreword has since been drafted for the main report, DD741, and for the executive summary.

4. DeSa Follow-up Project

A discussion was held during the week on the project specification for the DeSa follow-up project. The new project would examine in much more detail than DeSa the whole decommissioning lifecycle and the role and evolution of safety assessments in decommissioning plans during project progression. Proposals have been put forward for a test case on a fuel production facility and for a research reactor. There is also the possibility of a test case for the head-works of a mining and milling facility. In addition it was recommended to consider also a NPP test case as an example for a comprehensive safety assessment for a large facility.

IAEA have arranged for a first project meeting of the new project to be held in Vienna from 17 to 21 November 2008, and invitations to Member States will be sent out soon.

The coordinating group discussed the project proposal and offered comments on it, which O. Lareynie took on board in further developing the proposal.

The meeting was closed by O. Lareynie (ASN).



International Atomic Energy Agency

AGENDA

Consultants Meeting on Finalization of the Outcomes of DeSa Project

*International Project on Evaluation and Demonstration of Safety during
Decommissioning of Nuclear Facilities*

21-25 January 2008,
Lyon, France

Monday, 21 January 2008

- | | |
|---|-------------------------|
| 1. Opening | O. Lareynie, France |
| 1.1. Purpose and scope of the meeting | B. Batandjieva (IAEA) |
| 1.2. Excepted outcomes | |
| 1.3. Adoption of agenda | |
| 2. International Safety Standards on safety assessment for decommissioning – DS376 | B. Batandjieva (IAEA) |
| 3. Status of draft DeSa reports | |
| 3.1. Safety Assessment Methodology | K. Percival (UK) |
| 3.2. Decommissioning of a NPP | P. Manson (UK) |
| 3.3. Decommissioning of a research reactor | J. Kaulard (Germany) |
| 3.4. Decommissioning of a nuclear laboratory | A. Joubert (S. Africa) |
| 3.5. Graded approach | S. Thierfeldt (Germany) |
| 3.6. Regulatory Review | R. Ferch (Canada) |
| 3.7. Proposed structure of draft Safety Report DD741(incl. a CD) | B. Batandjieva (IAEA) |
| 4. Overview of the recommendation of the 4th Joint DeSa meeting | K. Percival (UK) |
| 4.1. Executive summary | |



-
- 4.2. Terminology
4.3. Consistency, etc.
- 5. Development of draft reports** (all)
- Tuesday, 22 January 2008**
- 5. Development of draft reports (cont.)** (all)
- Wednesday, 23 January 2008**
- 5. Development of draft reports** (all)
6. Technical visit to Superphenix (all)
- Thursday, 24 January 2008**
- 5. Development of draft reports** (all)
7. Review and discussion of executive summary and lessons learned (all)
8. Overview of the planned follow-up project B. Batandjjeva (IAEA)
- Friday, 25 January 2008**
- 9. Review and discussion of the revised volumes** (all)
10. Presentation of DeSa in 2008 (all)
11. Final proceedings (CD-ROM) (all)
12. Closing O. Lareynie, ASN, France



Appendix B

LIST OF PARTICIPANTS

Austria	Borislava Batandjieva	Scientific Secretary of DeSa project
Canada	Richard Ferch	Chairman, Regulatory Review Working Group
France	Olivier Lareynie	ASN, Host organization
Germany	Joerg Kaulard	Chairman, Research Reactor Test Case
Germany	Stefan Thierfeldt	Chairman, Graded Approach Working Group
South Africa	Adriaan Joubert	Chairman, Laboratory Test Case Working Group
United Kingdom	Piers Manson	Chairman, NPP Test Case Working Group
United Kingdom	Ken Percival	Chairman of DeSa project

