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Author Keijo Haapala			Date 2011-12-27	
Reviewed by			Reviewed date	
Approved by Erik Thurner			Approved date 2012-02-27	



D5.12: Interim report on the project reviews

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1 Introduction

This document, “D5.12: Interim report on the project reviews” describes the reviews realised during 2011 in Work Package (WP) 5 ”KBS-3V Emplacement tests in ONKALO (EMP)” of the FP7 EURATOM project LUCOEX - Large Underground Concept Experiments.

This document is connected to the LUCOEX WP5 Task 5.5 Integration and dissemination / Sub-task 5.5.1. Integration. Posiva Oy acts as the WP5 Leader.

The LUCOEX project will be implemented in collaboration with a consortium of international participants:

- SVENSK KÄRNBRÄNSLEHANTERING AB (“SKB”) (Sweden)
- AGENCE NATIONALE POUR LA GESTION DES DECHETS RADIOACTIFS (“ANDRA”) (France)
- NATIONALE GENOSSENSCHAFT FÜR DIE LAGERUNG RADIOAKTIVER ABFÄLLE (“Nagra”)(Switzerland)

2 Reviews during the year 2011

The WP5 Sub-task 5.5.1. Integration mentions that internal and external experts will be invited to perform reviews on the WP5 project plan, interim results, demonstrations and final report.

During 2011 the WP5 activities have been presented to the LUCOEX consortium more widely in connection with the Project Progress Meeting organized March 14th. No formal WP5 reviews have been organized but the activities have been reviewed with WP5 project meetings.

The partners have been provided opportunities to provide feedback on the WP5 Project Plan.

In addition, two WP5 Meetings have been organized, where consortium members were invited. The second one was participated by SKB’s Magnus Kronberg resulting in fruitful exchange of experiences and ideas.

2.1 WP5 activities in 2011

The Finnish engineering office Insinööritoimisto Comatec Oy was chosen after a tendering process to support Posiva in developing the bentonite block emplacement and gap filling methods, the needed quality control methods and problem handling instruments. Comatec’s representatives familiarized themselves with the geological disposal of nuclear waste and visited ONKALO underground repository on May 6th 2011.

On 25th May Posiva organized a brainstorming meeting with Comatec. The outcome of the meeting was the framework for the emplacement solution. During the summer, different alternative methods for the concept were studied and compared and at the end of August the solution to be developed further was selected.

During the autumn 2011 the design process of the selected solution has been carried out and decisions concerning the equipment have been made. It has been crucial to pay attention to the

ONKALO's special circumstances in all design work. For instance, the nonflammable hydraulic oil and absorbent material needed for possible leakages have been through the ONKALO approval procedures.

In order to find a suitable machinery provider, potential companies have been mapped and their production has been studied by Posiva's personnel.

3 Plans for the year 2012

During the year 2012, the WP5 main activities include the following:

- Tenders for the machinery providers will be sent early 2012
- The machinery will be manufactured during the spring and summer
- The first machinery tests will be realized in the autumn

Internal and external reviews will be realized as planned and in addition if special needs arise.