Public

Instruction

Document ID	Version	Status	Reg no	Page
1183027	1.0	Approved		1 (5)
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Approved by Allan Hedin			Approved date 2008-12-18	

Task description for the safety assessment SR-Site

Appendix 6 to SDK-003 Quality Assurance plan for the safety assessment SR-Site

Contents

1. Introduction and application of the instruction

In the safety assessment SR-Site, a number of computational tasks are ordered by the SR-Site team (henceforward denoted customers) and performed by single contractors, by expert groups being a part of the project or by SKB personnel outside the SR-Site project group (henceforward denoted suppliers). The extent of these computational tasks may vary from being relatively small and well defined to more complex tasks where the responsibility of defining the problem and the input data required may be part of the task.

1.1 Objective

The purpose of the task description and this instruction is to provide a standardised form in order to ensure that the tasks are well defined, that the customer and supplier agrees on deliverables and input and that changes throughout the process are documented.

1.2 Scope of the instruction

This instruction is part of the QA-plan 1064228 - Quality Assurance plan for the safety assessment SR-Site and applies to all handling of data and models and to all calculations and modelling work in the safety assessment SR-Site. It applies both to the SR-Site project team and to suppliers to the project, from within SKB and from external suppliers.

The task description contains information on how the computational tasks should be conducted and should be updated if prerequisites and/or data for the task are changed and if more detailed information of importance for conducting the computational task becomes available.

1.3 Handling of task descriptions

The task description is jointly written by the customer and supplier according to the template in Section 2. The task description is reviewed by the QA-manager of the project and approved by the project manager. After completion, task descriptions are stored and revision handled in SKBdoc according to the documentation plan for the Spent fuel project, SDK-120 - Kärnbränsleprojektets dokumenthanteringsplan. The customer of the computational task is responsible for producing the task description and for all handling of the document in SKBdoc.

2. Template for task description

This section constitutes the template for task descriptions. The template for the task description is also available as a predefined text in the SKB document type Task description.

2.1 Introduction and objectives

In this part of the task description, the objectives and scope of the computational task are described.

The section should include applicable parts of the following:

- A general description of the purpose of the computational task, hypothesis to be tested and initial assumptions.
- A discussion of initial and boundary conditions to be used in the analysis and the different scenarios to be studied.
- A description of assumptions relating to the implementation of any conceptual models.
- An identification of potential sources of error and uncertainty and how they will be controlled.

2.2 Approach

In this part of the task description the approach for the computational task is described. If defining the approach is part of the task this is indicated in this section.

The section should include applicable parts of the following:

- A general description of the approach together with a discussion of the computer codes and parameter input to be used in the modelling.
- A description of different QA requirements that applies for the task. This may for instance include handling of different model versions, procedures to be followed during code development and qualification of codes to be used.
- Listing of primary tasks in the analysis and how they will be documented.

2.3 Input data

In this section, the input data to be used in the analysis are presented. If defining input data is part of the task this is indicated.

The section should include applicable parts of the following:

- The input data to be used in the analysis, including uncertainties and distributions for probabilistic simulations.
- Location (and version) of input data to be used in the analysis. This text may point to different references, for instance the SR-Site Data report (or a preliminary version thereof), other references or, for large amount of data, to physical locations on servers.
- If public data bases (thermodynamic data bases or data bases for radionuclide decay calculations) are used in the analysis, the version and location of that data is given.

If preliminary data are used it must be verified that the used data are in agreement with the final data being delivered later. Procedures for this verification should be given in the task description. These procedures should fulfil the requirements on documentation of the verification as specified in the instruction 1186612 - Final control of data used in SR-Site calculations/modelling.

2.4 Software list and handling of configuration and scripting files

In this section, issues related to the software to be used in the analysis are presented and also how scripts and, if applicable, codes used in the analysis should be stored for future use.

The section should include applicable parts of the following:

- A specification of the different codes (and the version) to be used in the analysis.
- If configuration files and scripts are used, a description of if and how these should be supplied to the SR-Site team for future storage.
- If the codes used in the analysis should be stored on SKB servers the task description should include an instruction on how this should be handled.

2.5 Deliverables and output data format

In this section, deliverables from the computational task is presented.

The section should include applicable parts of the following:

- How the results of the task should be presented.
- Which results that should be made available in digital form.
- A specification of output formats for data produced in the computational tasks (if required by users of the data).
- An instruction of how results should be placed on a central storage location.

- If results, input files and executable filed should be stored on non SKB servers (by the supplier) it should be stated for how long time these should be available. For files being archived on SKB servers a separate instruction is under development.

3. References

SKBdoc 1064228 - Quality Assurance plan for the safety assessment SR-Site
SKBdoc 1186612 - Final control of data used in SR-Site calculations/modelling
SDK-120 - Kärnbränsleprojektets dokumenthanteringsplan

Register of revisions

Version	Date	Content of revision	Made by	Reviewed by	Approved by
1.0	See head of the first page	New document	Fredrik Vahlund	See head of the first page	See head of the first page