

## Petitions in case nr M 1333-11

### 1. Introduction

This document is part of the material needed for the consultation under the Convention on environmental impact assessment in a transboundary context (the Espoo Convention) further to the Swedish Nuclear Fuel and Waste Management Company's (Svensk Kärnbränslehantering AB, "SKB") application for permit under the Swedish Environmental Code (1998:808) for facilities in an integrated system for final disposal of spent nuclear fuel and nuclear waste.

SKB's petitions were included in the application the 16<sup>th</sup> of March 2011. At the completion of the application the 2<sup>nd</sup> of April 2013, SKB withdrawn its petition regarding the planned activities affecting water in the lake Tjärnpussen (B.6) as well as added a petition by way of reservation regarding the potential need for a Natura 2000 permit (D.1). At the completion the 30<sup>th</sup> of March 2015, SKB added an additional petition regarding the extended interim storage of spent nuclear fuel in Clab/Clink (petitions A). At the same time, and for clarifying purposes, adjustments were made in the original petitions A from 2011.

The petitions are presented in their entirety under section 2 below.

### 2. SKB's petitions

Svensk Kärnbränslehantering AB (SKB) applies for a permit under the Environmental Code for the **existing** and **planned** activity at facilities included in an integrated system for final disposal of spent nuclear fuel and nuclear waste as follows:

A. Central interim storage facility and facility for encapsulation of spent nuclear fuel (Clab/Clink), on the premise of Oskarshamn Simpevarp 1:9

A.1 to, in the existing facility Clab in Oskarshamn, store, manage and process nuclear material (mainly consisting of spent nuclear fuel) and nuclear waste (e.g. construction material in the fuel assemblies and used core components). The quantity of spent nuclear fuel<sup>1</sup> present at any one time may not exceed 11,000 tonnes,

A.2 to, next to Clab, construct a facility part for encapsulation of nuclear material according to A.1 and nuclear waste<sup>2</sup> from the Swedish nuclear power programme and

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<sup>1</sup> In the case of spent nuclear fuel the figure refers to the quantity of uranium, and in the case of MOX fuel also plutonium, in the unirradiated fuel

<sup>2</sup> Meaning construction material in the fuel assemblies.

thereafter operate Clab (in accordance with A.1) and the encapsulation part as an integrated facility (Clink). Clink has a design capacity for encapsulation of a maximum of 200 canisters per year,

A.3 and for drainage of Clab/Clink to divert the requisite quantity of groundwater to the Baltic Sea and build the structures needed for this diversion,

all in conformity with what is stated in this application with appendices.

B. Final repository facility/final repository on the premises of Östhammar Forsmark 3:32, 6:5 and 6:20

B.1 to build and operate a facility for final disposal of nuclear material, consisting primarily of spent nuclear fuel, and in addition nuclear waste from the Swedish nuclear power programme, within the defined area in Forsmark in Östhammar Municipality. The nuclear material and the waste are specified in [the application],

B.2 to infill small water areas for the above-ground parts of the final repository,

B.3 to build a road bridge across the cooling water channel,

B.4 to divert the requisite quantity of water to the Baltic Sea for drainage of the final repository facility and build the structures needed for this diversion,

B.5 as a protective measure for the consequences of drainage according to B.4 above, to re-infiltrate water into the soil and build the structures required for this infiltration,

~~B.6 to regulate the water level in Tjärnpussen Lake between +3.15 m and +1.80 m, and for this purpose to build a dam in the lake's outlet [withdrawn according to section 1 above]; and~~

B.7 to store rock material next to the above-ground parts of the final repository facility pending utilisation of the material,

all in conformity with what is stated in this application with appendices.

C. Other requests

SKB requests that the environmental court ordain

C.1 that the hazardous activities in additional facilities shall have been commenced not later than ten years after the permit judgement gains legal force,

C.2 for each water activity, that the permitted measures shall be implemented not later than ten years after the permit judgement gains legal force,

C.3 that conditions, procedures for deferred conditions, and authorisations be issued in accordance with SKB's proposals in [the application], and

C.4 that the environmental impact assessment (EIA) prepared for the activity is approved.

D. Additional petitions

D.1 SKB also, if the Court finds such permit needed, applies for a permit under Chapter 7 Section 28 a in the Environmental Code to divert water as described in petition B.4.

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