

Status and follow-up of the 2nd SSM application, May 2016

ESHAC 2016-10-03

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The ESS application



ESS-0057826 The application – Official letter

ESS-0000002 Preliminary Safety Analysis Report (PSAR)

ESS-0057839 Status report

ESS-0051167 Self Assessment

ESS-0058411 List of documents in the application

Rev. 12, 27th of Sept

General response/information from SSM

13th of June



The upcoming SSM review process (ESS-0060685)

- The SSM review process will separate “installation” & “commissioning” in time.
- **Initial review** identifies short comings. Requests for complementary information will come, but be divided into the different review areas, and divided in time (summer-fall).
- **Detailed review** begins after SSM received complementary information from ESS.
- **Finalized review** will lead to one (1) review report, prior to SSM decision for permit.
- Once the SSM process have led to a permit, it will be followed by official SSM inspections that, together with independent ARRs, provide subsequent verification.

Overall SSM time schedule



SSM said 23rd of August that once the requested complementary information has been satisfactory received, SSM will move into detailed review of each single review area.

And once the SSM requests for all their review areas have been provided by ESS, SSM stated that they need **at least 6 months** for the detailed review before being able to give ESS the concluding Permit for installation.

Held ESS-SSM meetings, this far...



<u>Date</u>	<u>Topic</u>	<u>Minutes</u>
4 th of May	General presentation of the ESS application	ESS-0058372
16 th of May	Accidents: Source Terms & Dispersion model	ESS-0059246
9 th of June	Organization, Management & Governance + “Rad Protection Expert Function”	ESS-0061765
17 th of June	Source terms for Emergency Preparedness Zones	ESS-0062232
23 rd of June	Phone meeting to follow-up on 17 th of June	ESS-0062234
23 rd of August	SSM-ESS Project meeting	ESS-0065436
9 th of September	SSM presented ESS-0065281 Emergency Preparedness	ESS-0068336
14 th of September	Phone meeting on Documentation & Archiving ESS-0067974	ESS-0068572
28 th of September	ESS presents the “Target Safety System”	ESS-0068330

SSM Initial Review completed 16th of Sept, leading to the following official requests



Already delivered complementary information, committed in ESS-0063412

	Request	Delivery	Internal reference documents
• "Modeling of unknown inhalation dose coefficients"	Request ESS-0062236, 28 th of June	ESS-0063726 & ESS-0063736	ESS-0063319
• "Information Security; Clarification of IT phrase in PSAR Ch. 4"	Request ESS-0062175, 28 th of June	ESS-0068257 & ESS-0063453	ESS-0063319

Agreed deliveries, partly committed in ESS-0063412

• "RPE function"	Request ESS-0062136, 22 nd of June
• "Categorization of workers"	Request ESS-0062136, 22 nd of June
• "Dose surveillance and measurements"	Request ESS-0062136, 22 nd of June
• "Status report" & "Self Assessment"	Request ESS-0062136, 22 nd of June
• "Documentation & Archiving"	Request ESS-0065419, 17 th of Aug
• "Decommissioning"	Request ESS-0063900, 21 st of July
• "Target accident scenarios"	Request ESS-0068289, 16 th of Sept
• "Doses for antagonistic events"	Request ESS-0062175, 28 th of June

Delivery	Owner	Internal reference documents
15/10 New date.	PJ	ESS-0063319
15/10	LJ	ESS-0063319
15/10	LJ	ESS-0063319
15/10	PJ	ESS-0063319
31/10 (*)	MS	ESS-0068572, ESS-0067974
15/12 (*)	PP & PJ	-
15/12 (*)	PN	ESS-0063240
15/12	UA	ESS-0063359
x/x Changed date.	MS	ESS-0063319. Next meeting 27/9
x/x	PJ & DE	ESS-0066295. Next step: PJ-DE
x/x	?	ESS-0068336, 68176, 68653
x/x		
x/x		

Requests without any ESS commitments yet

• Quality handbook	Request ESS-0062136, 22 nd of June
• Emissions during Normal operation	Request ESS-0065007, 15 th of Aug
• Emergency preparedness	Request ESS-0065281, 22 nd of Aug
• Operations	Request ESS-0068235, 15 th of Sept
• Design & Safety Analyses	Request ESS-0068289, 16 th of Sept

Other deliveries

• Official letter to SSM on installation of "PSS ACC 1", before received installation permit	ESS-0065436	Prel. 28 th of Sept.	SB	ESS-0067847, ESS-0068269
• ESS to provide a classified copy to SSM of the SKB agreement on rad waste handling	ESS-0068708	Prel. 5 th of Oct	PP	Labeling of doc to be decided.

Review areas currently without need of complementary information

• "Clearance" (Friklassning) and "Transports"	Email ESS-0068157, dated 7 th of Sept	-	-	-
• "Mechanical Equipment"	Email ESS-0068215, dated 14 th of Sept	-	-	-

(*) = internally agreed, but not communicated to SSM yet.

Upcoming meetings with SSM



- SSM participate as invited guest and speaker at ESHAC 5 _____ 3rd - 4th of Oct
- ESS presents “Rad waste” on request _____ 5th of Oct (9-12)
- ESS present “Information Security” on request as introduction to the “Detailed Review” _____ 6th of Oct (9-12)
- ESS presentation of “Unmitigated target accident scenario (with PBW)” _____ 7th of Oct (9-12)
- SSM to update ESS on status of “ESS emergency preparedness zones” _____ 7th of Oct (13-15)
- SSM seminar in Stockholm on “Control room issues” (ESS-0068337). ESH/ICS participates. _____ 11th of Oct (8:30-16:00)
- ESS presents complementary delivery within “Rad protection” (see 3 bullets above) _____ Proposal: 19th – 21st Oct ?
- ESS presents complementary delivery on “Status report” & “Self Assessment” _____ Proposal: 19th – 21st Oct ?
- ESS full day “PSS presentation” in Lund including the “PSS Test-stand” and an ESS site visit _____ 29th of Nov (10-17:30)
- SSM official inspection of “Klystron Test-stand” at Södra Apparathallen (Campus) in Lund _____ 30th of Nov.
- SSM-ESS Management meeting in Stockholm _____ 13th of December
Previous meeting 15th of March 2016, ESS-0053826
- ESS presents complementary delivery on “Decommissioning” _____ Prel. 15th of Dec (13-16)
- ESS presents complementary delivery on “Target Accident Scenarios” (see above) _____ 16th of Dec (9-12)
- ESS presents complementary delivery on “Doses for antagonistic events” _____ 16th of Dec (13-16)

Note: In addition to the identified activities during Sept-Dec, there will most probable be a need for more meetings related to received requests on “Emissions during normal operation”, “Operations” and “Design & Safety Analyses”, or on “Complementary Deliveries”.

Clarification of Licensing Team Roles

15th of Sept 2016



Dear Licensing Team,

As part of the ongoing license application process, we must follow-up on SSM requests related to the 2nd application, as well as perform activities in support of our next application. To facilitate these efforts, I would like to clarify the roles of the individuals who have been assigned to manage this work. These role assignments are of course subject to revision after Ralf Trant arrives next month and takes over in his role as permanent Associate Director for ES&H and Quality, but the urgency of this work dictates that we move forward for now with our current organization.

Peter Jacobsson, as leader of the ES&H organization, has **overall responsibility** for the licensing efforts.

Thomas Hansson is the **Point of Contact between ESS and SSM**, and is currently focusing on managing the responses that support the 2nd Application. He works with the licensing team to define the content of response elements and works with the Licensing Project Manager to integrate activities and plan the time frame for completion of the tasks (to the extent that they are significant efforts) so that they are integrated with the overall licensing activity plan.

Johan Waldeck is the acting Licensing Project Manager. Johan works with Peter, Thomas, and the representatives from the sub-projects **to develop and maintain an overall plan for the licensing work and manages these activities to completion.**

I ask that you support Peter, Thomas, and Johan in meeting our goals for this critical work.

John

Thank you!

Questions?