Occupational Health and Safety @ ESS
Big Science 2019

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Overview

• Health and Safety organisation at ESS
• Development of an OHS handbook for ESS
• Emergency Preparedness
• Chemical management
Developing a management system - OHS

- Work permits (e.g., Hot works)
- Chemical management
- Developing procedures, rules, guidance, communication & training
- Incident management
- Emergency Response organisation
- Risk Assessment
- Electrical safety rules
- Transport of dangerous goods
Fire and Explosion Safety Programme

Ca 300 documents
Defence in depth

1. Prevent start
2. Detect fire
3. Quickly extinguish
4. Prevent spread
**ESS-0082385 “ESS Site Evacuation Plan” - Three pillars!**

### Training
- Evacuation alarm types
- Assembly points
- “In case of an evacuation alarm, I will evacuate immediately”

### Card reader system
- Swipe
- “Every person entering this area swipes their card”
- Swipe
- Automatic

### Organisation
- Evacuation leader - Area 1, Building A
- Evacuation leader - Area 2, Building A
- Assembly point coordinator
- Building “A” is evacuated
- Main control room shift leader receives the balance
First Responders

First Responders objective is to mitigate several types of on-site accidents, e.g. workplace accident, fire, low oxygen, flammable gas, fire, ionising radiation and flooding (initially priority to those in red)

Plan for Emergency Responders training:

• Security clearance (this is a future SSM requirement where access to all areas of site is required)
• Electrical Safety Training (to provide access to high voltage areas)
• Physical / medical checks
• Rescue Service education
• On site alarm panel education
• On site emergency communication and orientation training
Handling chemicals at ESS
Chemical database Klara
Chemicals

Transport
Need to prepare for transport of samples which will include radioactive, chemical and biological material. Need to comply with the International and Swedish regulations for transport of dangerous goods.

Waste
• Need to ensure appropriate disposal for our chemicals
Any questions