

Finland

EPR Fact Sheet

Decision making

Decision making in case of emergency rests with those organisation normally responsible of the sector. For those protective actions that directly impact population (sheltering, evacuation), the responsible authority is the Regional Rescue Service. For other protective actions, the authorities normally responsible for ensuring safety are responsible. Depending on the action this may be a local, regional, or national authority.

The main authority responsible for coordinating the off-site emergency preparedness is the Regional Rescue Service. Finnish Radiation and Nuclear Safety Authority (STUK) works in close cooperation with the rescue services in the emergency preparedness arrangements.

STUK prepares the Operational Intervention Levels and other criteria for protective actions, which are enacted by Ministry of Interior.

Advice

STUK provides advice and expert assistance to other authorities in case of radiological or nuclear emergency. STUK also operates the automatic radiation measurement network and would coordinate radiation measurements in case of emergency.

Licensee

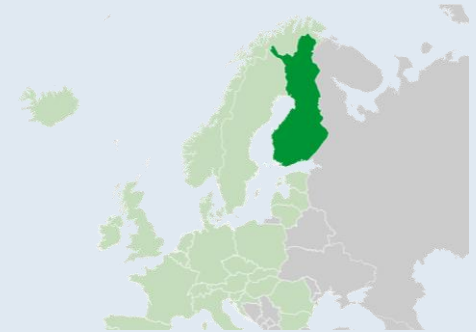
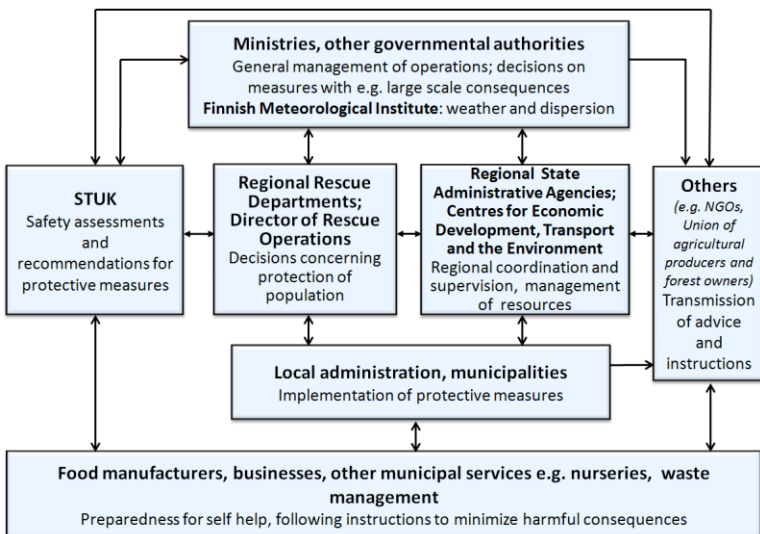
The operator is obliged to make necessary information available to the authorities, to support the authorities in assessing the situation and to advise them in taking decisions on protective actions for the public.

The operator is also responsible for actions needed on-site to prevent or mitigate consequences from accident.

Alarming

The licensee is obliged to inform the emergency dispatch centre and STUK with no delay of any on-site anomalies. The rescue authority will inform the public.

Organizational structure



Country info

Capital	Helsinki
Official language	Finnish Swedish
Population	5.5 M
Area	338 000 km ²
Currency	Euro (€)
Time zone	UTC+2
Calling code	+358
Internet TLD	.fi
NPPs /ele. share	2/33%

NWP, NCA*

Finnish Radiation and Nuclear Safety Authority (STUK)

Emergency website

www.stuk.fi (public)

<https://finri.stuk.fi> (password protected)

Online measurements

www.stuk.fi/sateily-ymparistossa/sateilytilanne/en_GB/sateilytilanne/

Bilateral agreements

Denmark, Germany, Iceland, Norway, Russia, Sweden, Ukraine

RANET capabilities

- Radiation Survey
- Environmental Sampling and Analysis
- Radiological Assessment and Advice
- Dose Assessment
- Decontamination

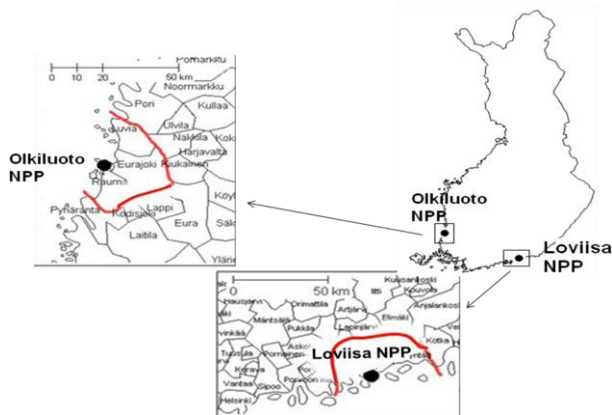
*National Warning Point and Competent Authority under the Emergency Conventions

Nuclear facilities* and population

Facility	Type	MW _e	GPS	5 km pop.	20 km pop.	Comments	
Loviisa	LO1	PWR	60.370844° N 26.346775° E	44	12 400		
	LO2	PWR					440
Olkiluoto	OL1	BWR	61.236421° N 21.444172° E	70	46 200	Under construction	
	OL2	BWR					800
	OL3	PWR					1600

*The IAEA emergency preparedness category 1 and other relevant facilities

Planning zones



- precautionary action zone: 5 km
- urgent protective action zone: 20 km

Emergency classification

- **General Emergency:** a situation when there is danger of radioactive substance releases that may require protective measures in the vicinity of the nuclear power plant
- **Site Area Emergency:** a situation when the nuclear power plant's safety deteriorates or is in the danger of deteriorating significantly
- **Alert:** a situation where the nuclear power plant's safety level needs to be ensured in an exceptional situation

Comments

Finnish emergency classification is largely same as the IAEA's classification in GSR Part 7. However, the IAEA's Facility Emergency and Site Area Emergency are combined into single class, for which the term Site Area Emergency is used in international communications. Also the criteria are somewhat lower than GSR Part 7.

Protection strategy

Reference level of 20 mSv (eff. dose all pathways, 1 year) is a target for protection strategy during nuclear or radiological emergencies. The protection strategy is described in detail in [Nordic Flag Book](#).

Criteria in emergency planning zones

Protective Action	OILs /EALs	Comments
Evacuation of Urgent Protective Action Zone (5 km)	General Emergency	In addition, access and traffic restrictions (road, marine, rail, aviation).
Sheltering in Precautionary Action Zone (20 km downwind)	General Emergency	In addition, access and traffic restrictions (road, marine, rail, aviation).
ITB	With sheltering and/or evacuation	Iodine tablets pre-distributed within 5 km of plant

Criteria outside emergency planning zones

Protective Action	OILs /EALs	Comments
Evacuation	Sheltering anticipated to be needed for more than 2 days	In addition, access and traffic restrictions (road, marine, rail, aviation).
Sheltering	100 microSv/h	In addition, access and traffic restrictions (road, marine, rail, aviation).
Partial Sheltering	10 microSv/h	
ITB	With sheltering and/or evacuation	
ITB for children under 18 and pregnant women	With partial sheltering	
Protection of food and livestock production	1 microSv/h	