

Presentation of some relevant scenarios

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Statens strålevern
Norwegian Radiation Protection Authority

www.nrpa.no

Six scenarios:

(The Norwegian Government, 2010)

Scenario 1:
Large airborne release from
another country



Scenario 2:
Airborne release from a
domestic facility



Scenario 3:
Local event from mobile
source



Scenario 4:
Local event which develops
over time



Scenario 5:
Marine release, and/or fear of
contamination



Scenario 6:
Severe events abroad
without direct consequences
for Norway



Scenario 2: Airborne release from domestic facility



Scenario 3: Local event from mobile source



Scenario 5: Marine release, and/or fear of contamination





Events with nuclear-powered icebreakers



Events with transports of spent nuclear fuel



The Northern sea route To Japan



Murmansk

Sellafield

La Hague

Mayak



Events with nuclear-powered military vessels

ROV PTM500 RUS OBJECT: K-27 CLIENT: ROSGIDROMET

DATE 12.09.09 TIME 15:04:00 D=20.3 M L: 0 S: 0

Loss of ship with spent nuclear fuel on board

Some challenges

- Life and rescue of crew onboard vessel
- Detection of radioactivity – is there any release?
- Mapping of any contamination
- Possibly poor infrastructure
 - Resources nearby?
 - Transportation and logistics?
 - Communication? Language issues?
- Close to vulnerable local populations and societies?
- Vulnerable nature and natural resources?
- Clean-up and site management

