
Radiological Emergency

ACTIONS

to protect myself



Nuclear Safety and
Security Commission

This booklet provides information on resident protection and disaster prevention measures and explains about action guidelines for residents in nuclear power plant regions.

We hope this booklet helps raise the level of understanding in a radiation emergency for residents in nuclear power plant regions.

Know This

Radiological emergency _1

When a radiological emergency is issued _2

Facility emergency • Site area emergency • General Emergency _4

Radiological emergency is announced this way _6

Remember this when a radiological emergency occurs _7

Act This Way

Prepare to evacuate ①~④ _8

Once instructed to evacuate _12

Ask about the well-being of family at a medical relief station _13

Examine My Area

Emergency Planning Zone _14

Emergency Planning Zone by nuclear power plant region _16

Radiological emergency

If radioactive materials have leaked
or there is expected risk of leak,



evacuation measures, etc.
for residents' safety are issued
for urgent responses.

* Radiological emergency is preemptively issued before radiation has any effect.

Know This

When a radiological emergency is issued

To minimize the effect of an accident, a nuclear licensee shall take emergency measures and, at the same time, immediately inform the Nuclear Safety and Security Commission, local government, etc. of the situation.

*Information on the emergency is disseminated quickly and accurately.

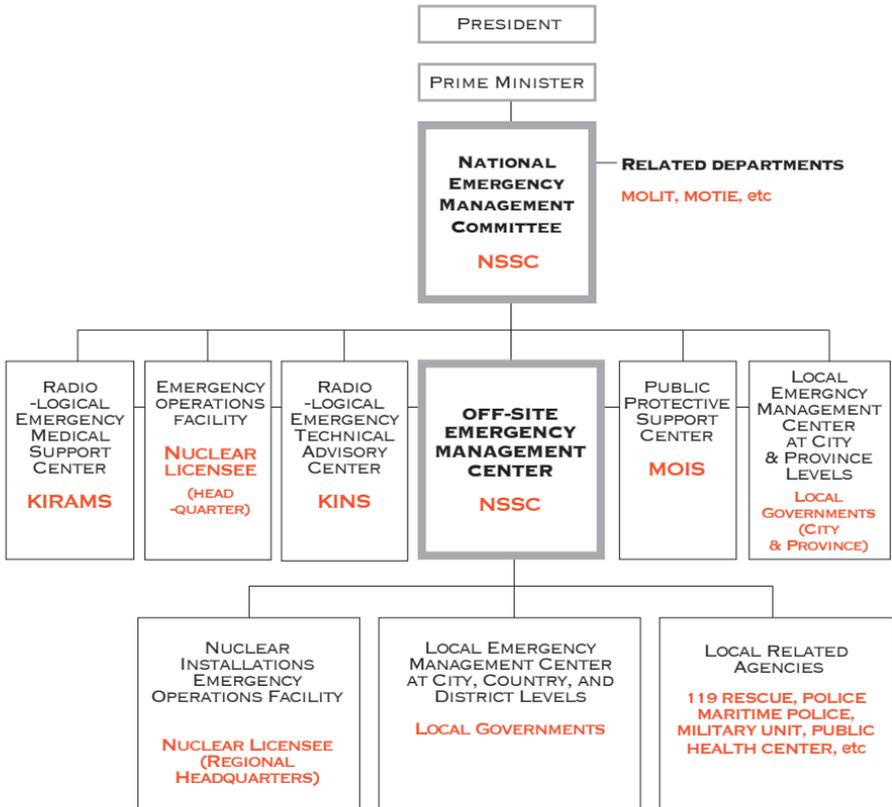


For resident protection measures and restoration and management of a nuclear power plant accident, the Nuclear Safety and Security Commission cooperates with related departments, local government, and other agencies to respond in a systematic manner.



National radiological emergency preparedness scheme

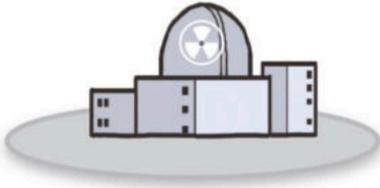
The Nuclear Safety and Security Commission establishes a national comprehensive radiological disaster prevention system to protect residents' lives and properties and the environment from radiological disasters in accordance with the Act on Physical Protection and Radiological Emergency.



Know This

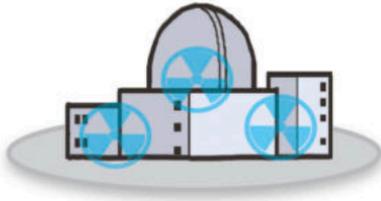
Facility · Site Area · General Emergency

Radiological emergencies in nuclear facilities, etc. are classified into facility emergency, site area emergency, and general emergency based on the seriousness and circumstances of each accident.



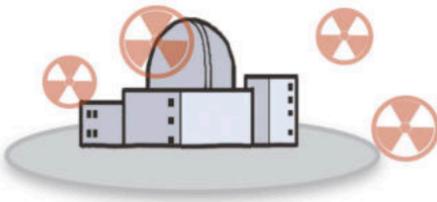
Facility Emergency

Effect of radiation expected to be limited within a nuclear reactor structure



Site Area Emergency

Effect of radiation expected to be limited within a nuclear power plant site



General Emergency

Effect of radiation expected to affect even the area outside a nuclear power plant site



In case of Facility Emergency Actions to take and Responses

Actions to take

- Live as you have while paying attention to official announcements such as disaster broadcasting

Response by national government

- Operate preliminary Off-site Emergency Management Center
- Organize disaster situations, spread to related agencies and media

Response by local government

- Operate local emergency management center

In case of Site Area Emergency Actions to take and Responses

Actions to take

- Prepare to evacuate while paying close attention to situations such as development of an accident to a general emergency

Response by national government

- Operate the National Emergency Management Committee
- Operate Off-site Emergency Management Center

Response by local government

- Prepare resident protection measures

In case of General Emergency Actions to take and Responses

Actions to take

- Evacuate in an orderly manner by following the instructions of disaster prevention personnel of local governments

Response by national government

- Determine resident protection measures
- Take nuclear power plant emergency response measures and control the accident

Response by local government

- Execute resident protection measures

Know This

Radiological emergency is announced this way

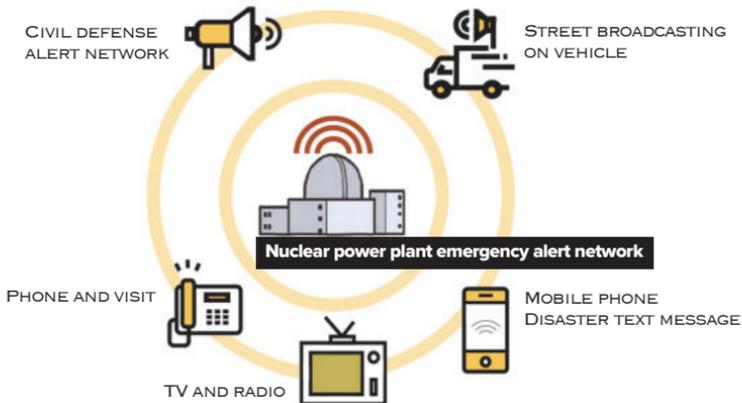
In case of Facility Emergency, it shall be announced through media, etc. by the Nuclear Safety and Security Commission; Site Area or General Emergency shall be announced as follows:

PRECAUTIONARY ACTION ZONE (3-5KM)

| **Licensee** | Broadcasting of the situation through the licensee's alert network

| **Local government** | Civil defense alert network, street broadcasting on vehicle, in-person visits, delivery through heads of villages and towns, phone calls

| **Government** | Send out emergency disaster broadcasts (TV, radio, etc.) and emergency disaster text messages



URGENT PROTECTIVE ACTION PLANNING ZONE (20-30KM)

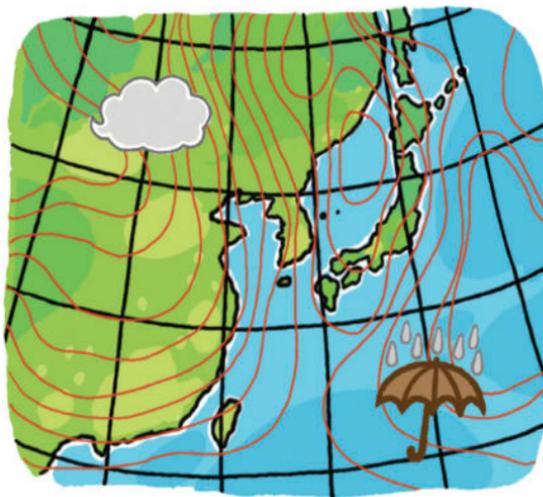
| **Local government** | Civil defense alert network, street broadcasting on vehicle, in-person visits, delivery through heads of villages and towns, phone calls

| **Government** | Send out emergency disaster broadcasts (TV, radio, etc.) and emergency disaster text messages

Know This

Remember this when a radiological emergency occurs

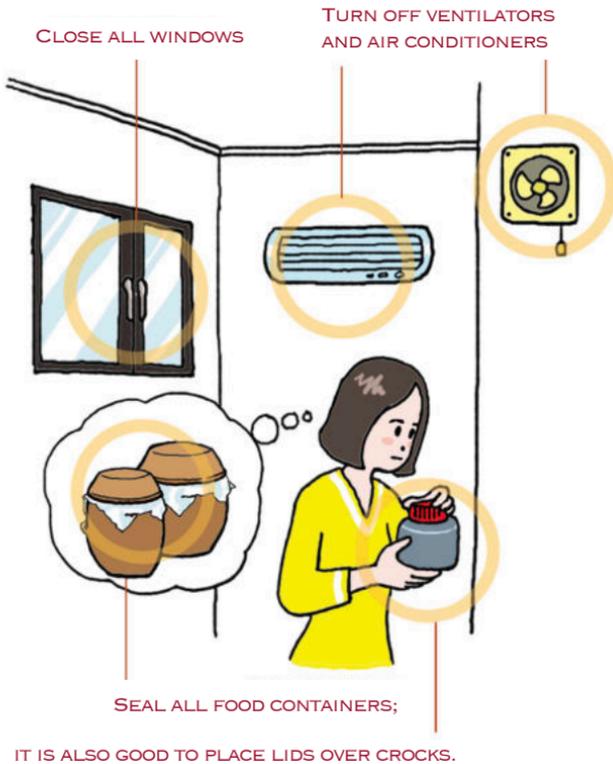
The path of spread of radioactive materials during an accident at a nuclear power plant may change depending on the weather conditions such as direction of the wind.



Therefore, act calmly for safety
while following official announcements.

Prepare to evacuate ①

To prevent radioactive contamination,
be sure to prevent outside air
from coming into the house.



Prepare to evacuate ②

Take measures to prevent fire
or electric shock.

SHUT OFF ALL POWER IN THE HOUSE
PRIOR TO EVACUATION.

LOCK ALL GAS VALVES



IT IS ALSO GOOD
TO LOCK BOILER VALVES.

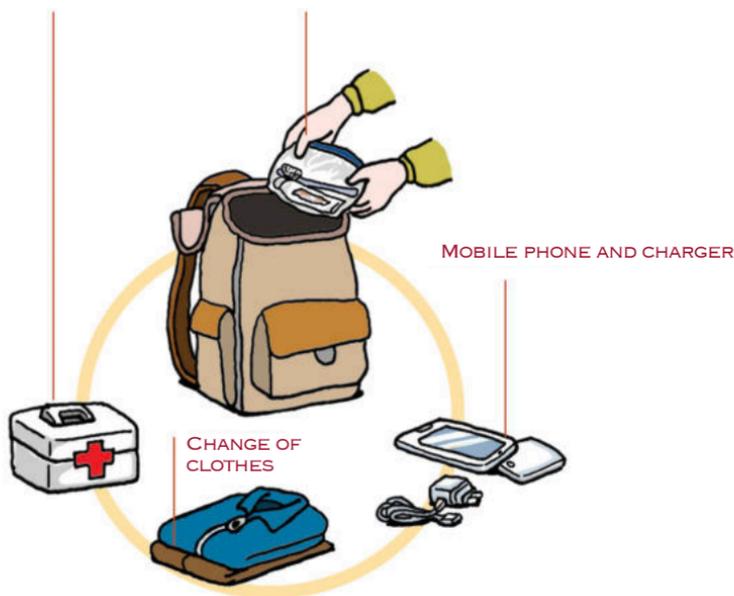
CHECK IF FAUCETS
ARE TURNED OFF.

Prepare to evacuate ③

Basic daily necessities such as food, sleeping area, and drinking water are provided by a medical relief station. So, take only the items that you really need including medicine you normally take, change of clothes, and mobile phone.

MEDICINE YOU NORMALLY TAKE

PERSONAL BELONGINGS AND VALUABLES



Prepare to evacuate ④

Prepare enough water and food
for livestock and pets.

KEEP PETS IN THE HOUSE
AND PREPARE ENOUGH
WATER AND FOOD.

PLACE ALL LIVESTOCK
IN SHEDS AND CLOSE
THE GATES PROPERLY.



ONCE ALL PREPARATIONS FOR
EVACUATION ARE FINISHED, HANG
A WHITE FLAG OR TOWEL AT THE
ENTRANCE.

Once instructed to evacuate

Move to an assembly area near a village
and use the car provided by a local government to
proceed to a medical relief station
in an orderly manner.

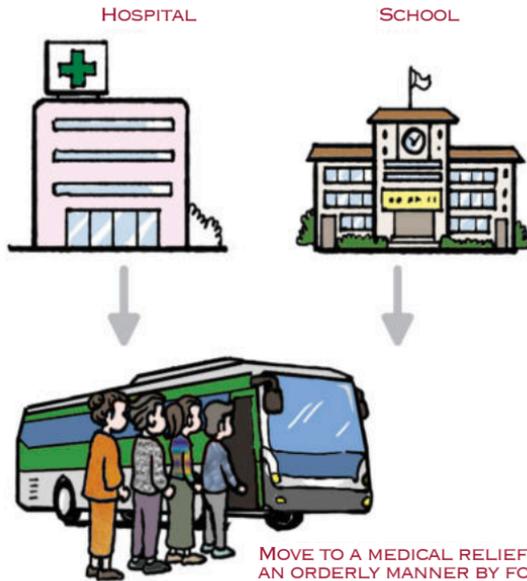
MOVE TO A MEDICAL RELIEF STATION IN AN ORDERLY MANNER
BY FOLLOWING THE INSTRUCTIONS OF
LOCAL GOVERNMENT GUIDE PERSONNEL.



* The primary assembly area may change depending on the situation of the region.

Ask about the well-being of family at the medical relief station

From a school, a public agency, or a hospital, move to a medical relief station via the car provided by each agency or local government. You can reunite with your family or check their well-being at a medical relief station without having to search for them yourself.



MOVE TO A MEDICAL RELIEF STATION IN AN ORDERLY MANNER BY FOLLOWING THE INSTRUCTIONS OF LOCAL GOVERNMENT GUIDE PERSONNEL.

Emergency Planning Zone

The Emergency Planning Zone is a zone set up for the intensive preparation of measures to protect residents such as evacuation in cases of radiation leak accident in a nuclear facility.

Precautionary Action Zone

A zone determined to implement precautionary measures to protect residents, such as evacuation, in cases of radiological emergency



Within a 3-5km radius of a nuclear power plant

Nuclear
power plant

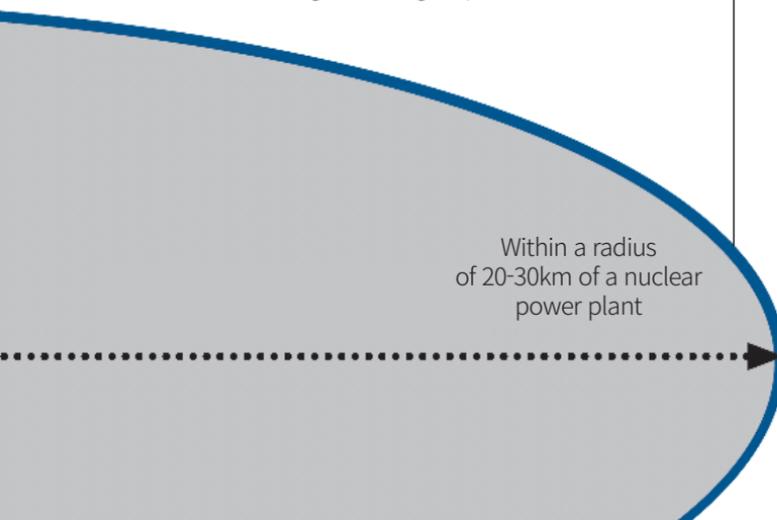


Emergency Planning Zone is divided into
“Precautionary Action Zone” and
“Urgent Protective Action Planning Zone”
based on the distance from a nuclear power plant.

Urgent Protective Action Planning Zone

A zone determined to implement urgent measures to protect residents based on the results of radiological impact assessment or environmental monitoring, in cases of radiological emergency

Within a radius
of 20-30km of a nuclear
power plant

A diagram showing a grey semi-circular area representing the Urgent Protective Action Planning Zone. A blue curved line forms the boundary of the zone. A horizontal dashed line with an arrowhead at the right end extends from the center of the semi-circle to the right edge of the diagram.

Examine My Area

Kori and Saeul **Nuclear Power Plant site** **Emergency Planning** **Zone**

Precautionary Action Zone 3-5km

Busan	Gijang-gun	Ilgwang-eup (certain parts) Jangan-eup (certain parts)
Ulsan	Ulju-gun	Seosaeng-myeon (certain parts)



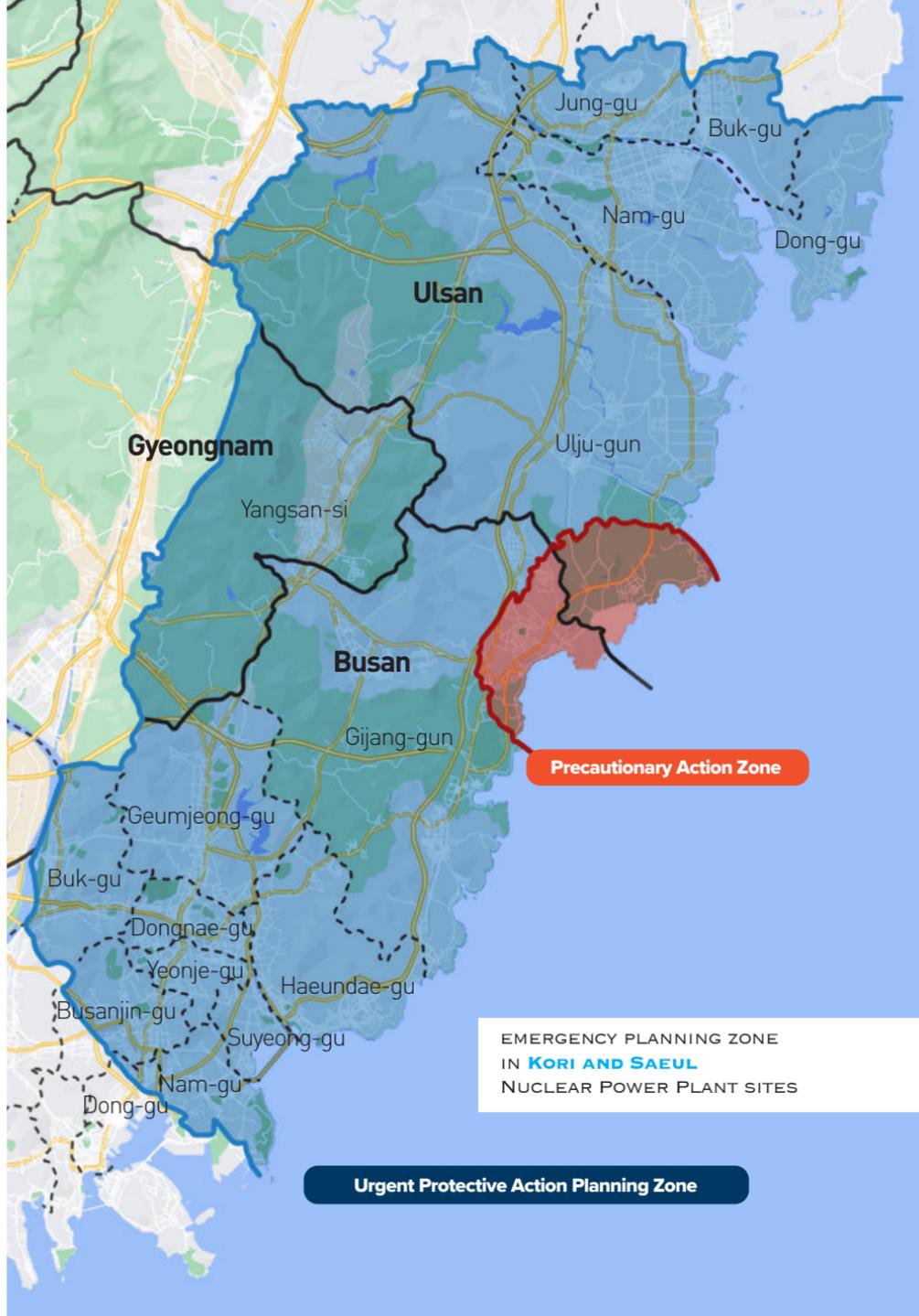


Urgent Protective Action Planning Zone 20-30km

Ulsan	Ulju-gun	Seosaeng-myeon, Onyang-eup, Samdong-myeon, Onsan-eup, Ungchon-myeon, Cheongnyang-eup, Eonyang-eup (certain parts), Beomseo-eup (certain parts)
	Jung-gu	Hakseong-dong, Bangu 1 and 2-dong, Boksan 1 and 2-dong, Seongan-dong, Jungang-dong, Ujeong-dong, Taewha-dong, Daun-dong, Byeongyeong 1 and 2-dong, Yaksa-dong
	Nam-gu	Sinjeong 1,2,3,4, and 5-dong, Dal-dong, Samsan-dong, Mugeo-dong, Ok-dong, Yaeumjangsaengpo-dong, Daehyeon-dong, Suam-dong, Seonam-dong
	Dong-gu	Bangeo-dong, Ilsan-dong, Hwajeong-dong, Daesong-dong, Jeonha 1 and 2-dong, Nammok 1,2, and 3-dong
	Buk-gu	Yangjeong-dong, Yeompo-dong, Hyomun-dong
Gyeong nam	Yang san-si	Seochang-dong, Soju-dong, Pyeongsan-dong, Deokgye-dong, Dong-myeon (certain parts), Sangbuk-myeon (certain parts), Habuk-myeon (certain parts), Samseong-dong (certain parts), Jungang-dong (certain parts)

Urgent Protective Action Planning Zone 20-30km

Busan	Gijang-gun	Ilgwang-eup, Jangan-eup, Gijang-eup, Jeonggwan-eup, Cheolma-myeon
	Haeundae-gu	Songjeong-dong, Jwa 1,2,3, and 4-dong, Jung 1 and 2-dong, U 1,2, and 3-dong, Jaesong 1 and 2-dong, Banyeo 1,2,3, and 4-dong, Bansong 1 and 2-dong
	Geumjeong-gu	Seo 1,2, and 3-dong, Geumsaheedong-dong, Bugok 1,2,3, and 4-dong, Jangjeon 1 and 2-dong, Seondugu-dong, Cheongnyongnopo-dong, Namsan-dong, Guseo 1 and 2-dong, Geumseong-dong
	Yeonje-gu	Geoje 1,2,3, and 4-dong, Yeonsan 1,2,3,4,5,6,7,8, and 9-dong
	Suyeong-gu	Namcheon 1 and 2-dong, Mangmi 1 and 2-dong, Gwangan 1,2,3, and 4-dong, Suyeong-dong, Millak-dong
	Dongnae-gu	Sumin-dong, Boksan-dong, Myeongnyun-dong, Oncheon 1,2, and 3-dong, Sajik 1,2, and 3-dong, Allak 1 and 2-dong, Myeongjang 1 and 2-dong
	Nam-gu	Daeyeon 1,3,4,5, and 6-dong, Munhyeon 1,2,3, and 4-dong, Uam-dong, Gamman 1-dong (certain parts), Gamman 2-dong, Yongho 1,2,3, and 4-dong, Yongdang-dong (certain parts)
	Dong-gu	Jwacheon-dong (certain parts), Beomil 1-dong (certain parts), Beomil 2-dong, Beomil 5-dong (certain parts)
	Busanjin-gu	Yangjeong 1 and 2-dong, Yeonji-dong, Choep-dong, Buam 1 and 3-dong, Danggam 1,2, and 4-dong, Bujeon 1 and 2-dong, Beomcheon 1 and 2-dong, Jeonpo 1 and 2-dong, Gaya 1 and 2-dong (certain parts), Gaegeum 3-dong (certain parts)
	Buk-gu	Geumgok-dong, Hwamyeong 1,2, and 3-dong, Deokcheon 1,2, and 3-dong, Mandeok 1,2, and 3-dong, Gupo 1-dong, Gupo 2-dong (certain parts), Gupo 3-dong



Gyeongnam

Ulsan

Busan

Precautionary Action Zone

EMERGENCY PLANNING ZONE
IN **KORI AND SAEUL**
NUCLEAR POWER PLANT SITES

Urgent Protective Action Planning Zone

Examine My Area

Wolseong Nuclear Power Plant site Emergency Planning Zone

Precautionary Action Zone 3-5km

Gyeongbuk	Gyeongju-si	Munmudaewang-myeon (certain parts), Yangnam-myeon (certain parts), Gampo-eup (certain parts)
-----------	-------------	--

Urgent Protective Action Planning Zone 20-30km

Gyeongbuk	Pohang-si	Ocheon-eup (certain parts), Janggi-myeon (certain parts)
	Gyeongju-si	Gampo-eup, Oedong-eup, Munmudaewang-myeon, Yangnam-myeon, Bulguk-dong, Bodeok-dong, Cheonbuk-myeon (certain parts), Wolseong-dong (certain parts), Naenam-myeon (certain parts)
Ulsan	Jung-gu	Hakseong-dong, Bangu 1 and 2-dong, Boksan 1 and 2-dong, Seongan-dong, Jungang-dong, Ujeong-dong, Taewha-dong, Daun-dong, Byeongyeong 1 and 2-dong, Yaksa-dong
	Nam-gu	Sinjeong 1,2,3,4, and 5-dong, Dal-dong, Samsan-dong, Mugeo-dong, Ok-dong, Yaeumjangaengpo-dong, Daehyeon-dong, Suam-dong, Seonam-dong
	Dong-gu	Bangeo-dong, Ilsan-dong, Hwajeong-dong, Daesong-dong, Jeonha 1 and 2-dong, Nammok 1,2, and 3-dong
	Buk-gu	Nongso 1,2, and 3-dong, Gangdong-dong, Hyomun-dong, Songjeong-dong, Yangjeong-dong, Yeompo-dong
	Ulju-gun	Eonyang-eup (certain parts), Beomseo-eup (certain parts), Dudong-myeon (certain parts)



Urgent Protective Action Planning Zone

Gyeongbuk

Pohang-si

Gyeongju-si

Precautionary Action Zone

Ulsan

Ulju-gun

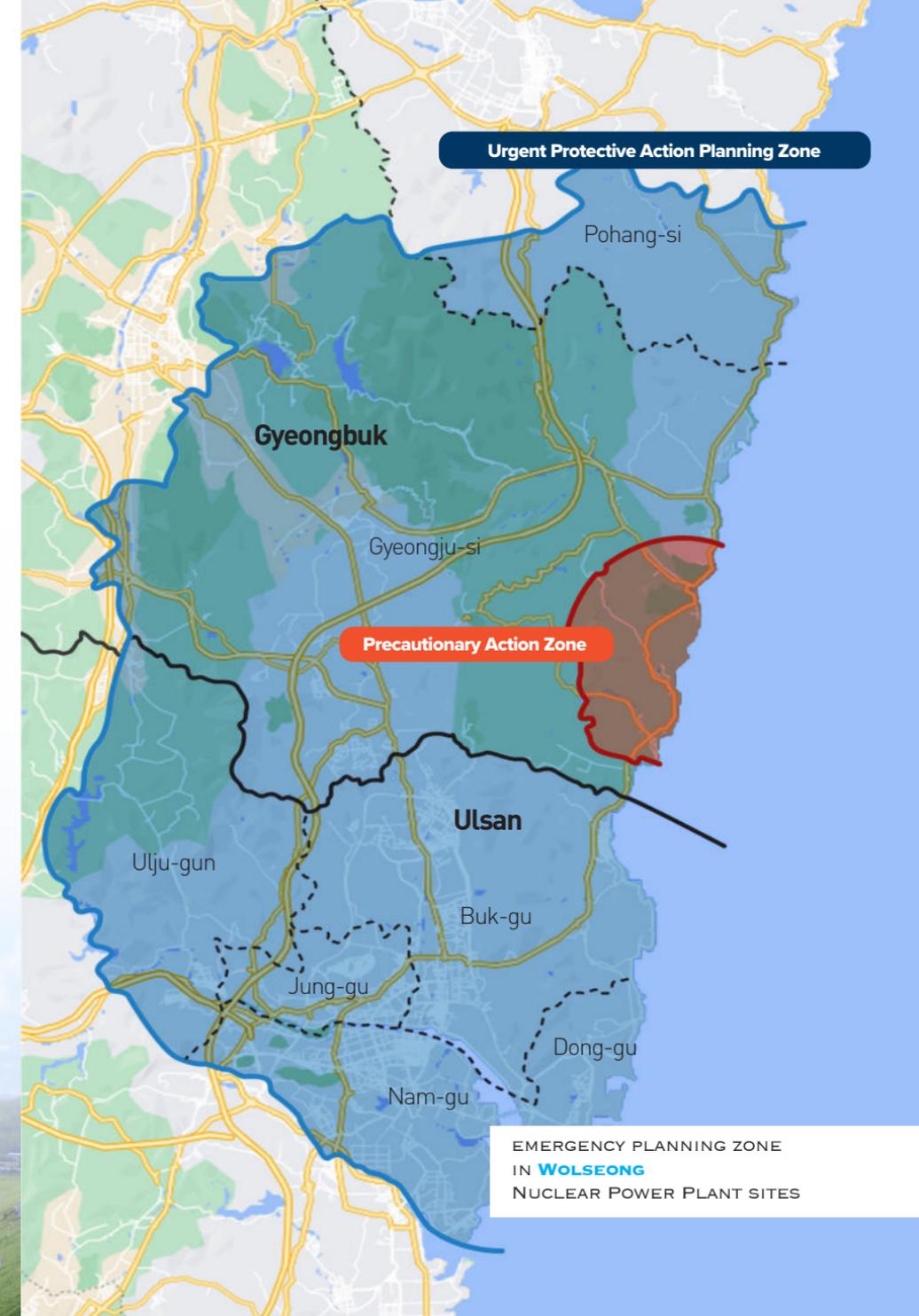
Buk-gu

Jung-gu

Dong-gu

Nam-gu

EMERGENCY PLANNING ZONE
IN **WOLSEONG**
NUCLEAR POWER PLANT SITES



Hanul

Nuclear Power Plant site Emergency Planning Zone

Precautionary Action Zone 3-5km

Gyeongbuk	Uljin-gun	Buk-myeon (certain parts) Jukbyeon-myeon (certain parts)
-----------	-----------	---

Urgent Protective Action Planning Zone 20-30km

Gyeongbuk	Uljin-gun	Buk-myeon, Jukbyeon-myeon, Uljin-eup, Geunnam-myeon, Geumgangsong-myeon (certain parts), Maehwa-myeon (certain parts), Giseong-myeon (certain parts)
	Bonghwa-gun	Seokpo-myeon (certain parts)
Gangwon	Samcheok-si	Wondeok-eup, Gagok-myeon, Dogye-eup (certain parts), Geundeok-myeon (certain parts), Nogok-myeon (certain parts)



EMERGENCY PLANNING ZONE
IN **HANUL**
NUCLEAR POWER PLANT SITES

Gangwon

Samcheok-si

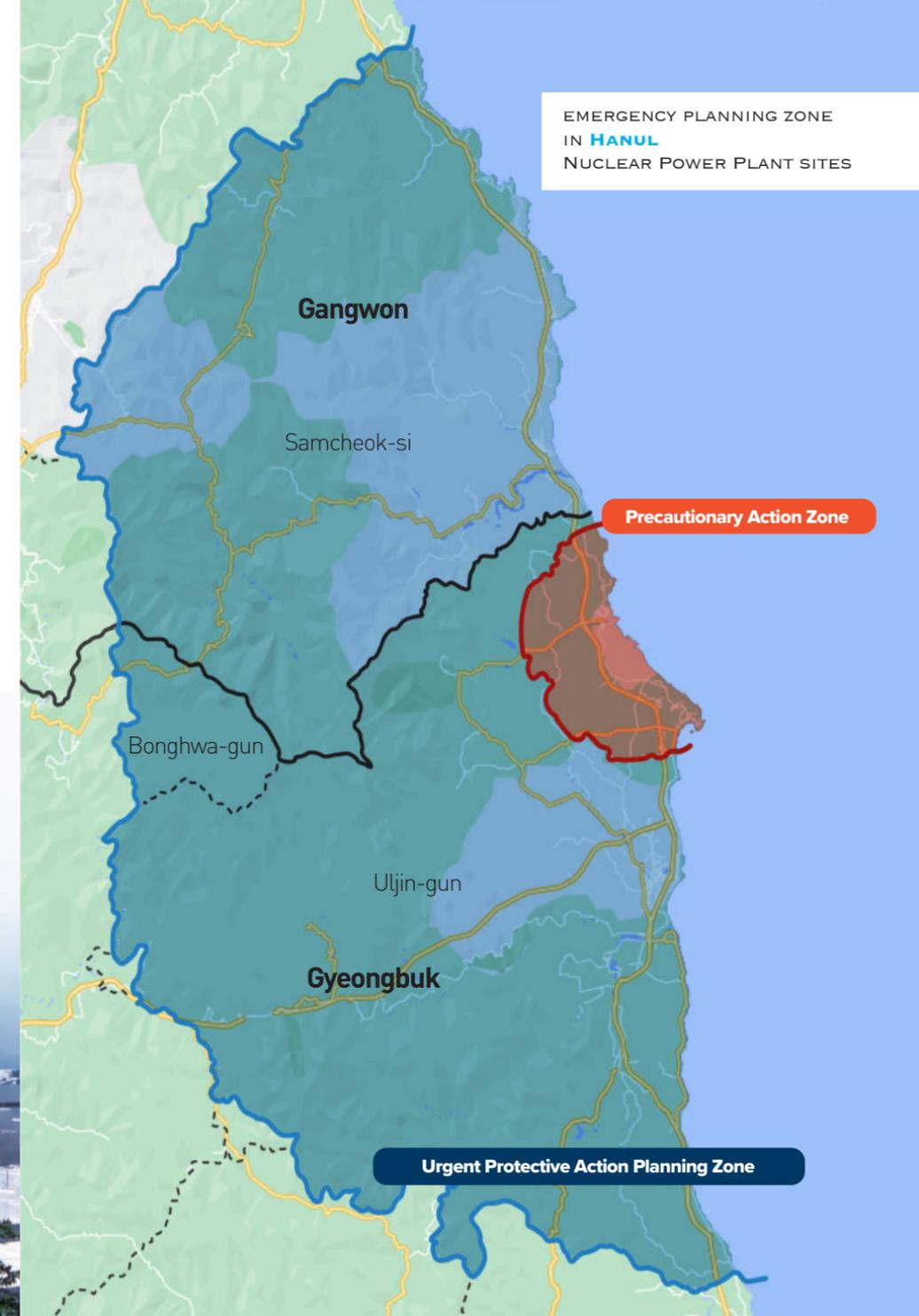
Precautionary Action Zone

Bonghwa-gun

Uljin-gun

Gyeongbuk

Urgent Protective Action Planning Zone



Hanbit

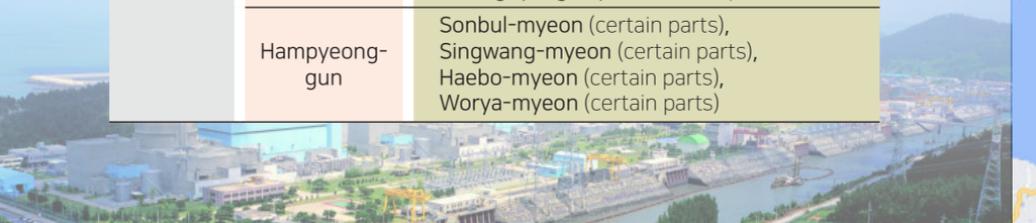
Nuclear Power Plant site Emergency Planning Zone

Precautionary Action Zone 3-5km

Jeonbuk	Gochang-gun	Sangha-myeon (certain parts)
Jeonnam	Yeonggwang-gun	Hongnong-eup (certain parts), Beopseong-myeon (certain parts)

Urgent Protective Action Planning Zone 20-30km

Jeonbuk	Gochang-gun	Gosu-myeon, Asan-myeon, Mujang-myeon, Gongeum-myeon, Sangha-myeon, Haeri-myeon, Seongsong-myeon, Daesan-myeon, Simwon-myeon, Buan-myeon, Gochang-eup (certain parts), Heungdeok-myeon (certain parts), Sillim-myeon (certain parts)
	Buan-gun	Jinseo-myeon, Boan-myeon (certain parts), Byeonsan-myeon(certain parts), Julpo-myeon (certain parts), Wido-myeon (certain parts)
Jeonnam	Yeonggwang-gun	Hongnong-eup, Yeonggwang-eup, Baeksu-eup, Daema-myeon, Myoryang-myeon, Bulgap-myeon, Gunseo-myeon, Gunnam-myeon, Yeomsan-myeon, Beopseong-myeon Nagwol-myeon (certain parts)
	Muan-gun	Haeje-myeon (certain parts)
	Jangseong-gun	Samseo-myeon (certain parts), Samgye-myeon (certain parts), Donghwa-myeon (certain parts), Hwangnyong-myeon (certain parts)
	Hampyeong-gun	Sonbul-myeon (certain parts), Singwang-myeon (certain parts), Haebo-myeon (certain parts), Worya-myeon (certain parts)



Urgent Protective Action Planning Zone

EMERGENCY PLANNING ZONE
IN **HANBIT**
NUCLEAR POWER PLANT SITES

Precautionary Action Zone



2023

RADIOLOGICAL EMERGENCY

NATIONAL RADIOLOGICAL EMERGENCY PREPAREDNESS SCHEME

FACILITY EMERGENCY + SITE AREA EMERGENCY + GENERAL EMERGENCY

RADIOLOGICAL EMERGENCY IS ANNOUNCED THIS WAY

EMERGENCY PLANNING ZONE

EMERGENCY PLANNING ZONE BY REGION

ACTION GUIDELINE IN CASE OF RADIOLOGICAL EMERGENCY



Nuclear Safety and Security Commission

Address 3, Sowol-ro (11th-13th floor), Jung-gu, Seoul

Phone +82-2-397-7300 **Fax** +82-2-6273-7803

Website www.nssc.go.kr **Blog** <https://blog.naver.com/pmssc>

YouTube <https://www.youtube.com/user/nsscckorea>

Twitter <https://twitter.com/NSSCKorea>

Instagram <https://www.instagram.com/nsscckorea>