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***Radiological Emergency***

**ACTIONS**

to protect myself

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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**

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## ***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.

## ***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.

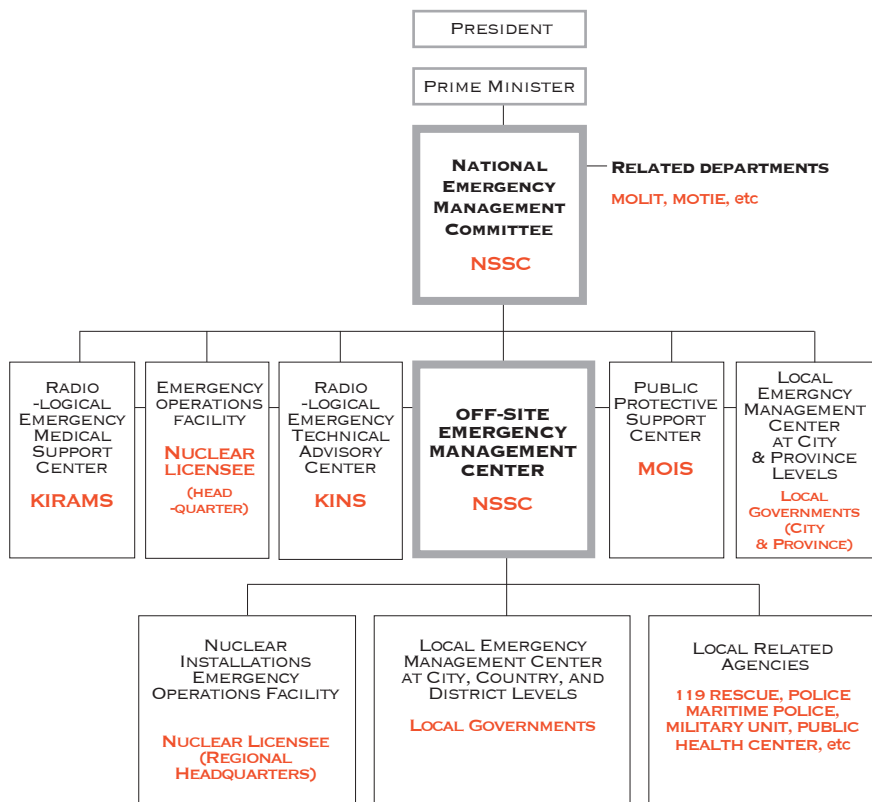


For resident protection measures and restoration and management of a nuclear power plant accident, the Nuclear Safety and Security Commission cooperates with related departments, local government, and other agencies to respond in a systematic manner.



## National radiological emergency preparedness scheme

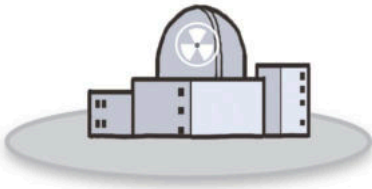
The Nuclear Safety and Security Commission establishes a national comprehensive radiological disaster prevention system to protect residents' lives and properties and the environment from radiological disasters in accordance with the Act on Physical Protection and Radiological Emergency.



## Know This

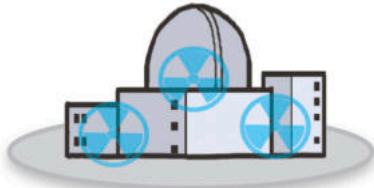
# ***Facility · Site Area · General Emergency***

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.



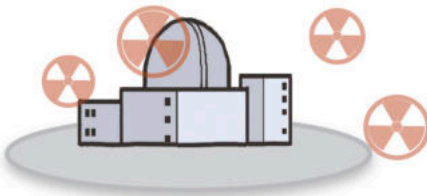
### **Facility Emergency**

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	Response by national government	Response by local government
<ul style="list-style-type: none"> <li>• Live as you have while paying attention to official announcements such as disaster broadcasting</li> </ul>	<ul style="list-style-type: none"> <li>• Operate preliminary Off-site Emergency Management Center</li> <li>• Organize disaster situations, spread to related agencies and media</li> </ul>	<ul style="list-style-type: none"> <li>• Operate local emergency management center</li> </ul>

### In case of Site Area Emergency Actions to take and Responses

Actions to take	Response by national government	Response by local government
<ul style="list-style-type: none"> <li>• Prepare to evacuate while paying close attention to situations such as development of an accident to a general emergency</li> </ul>	<ul style="list-style-type: none"> <li>• Operate the National Emergency Management Committee</li> <li>• Operate Off-site Emergency Management Center</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare resident protection measures</li> </ul>

### In case of General Emergency Actions to take and Responses

Actions to take	Response by national government	Response by local government
<ul style="list-style-type: none"> <li>• Evacuate in an orderly manner by following the instructions of disaster prevention personnel of local governments</li> </ul>	<ul style="list-style-type: none"> <li>• Determine resident protection measures</li> <li>• Take nuclear power plant emergency response measures and control the accident</li> </ul>	<ul style="list-style-type: none"> <li>• Execute resident protection measures</li> </ul>

## Know This

# ***Radiological emergency is announced this way***

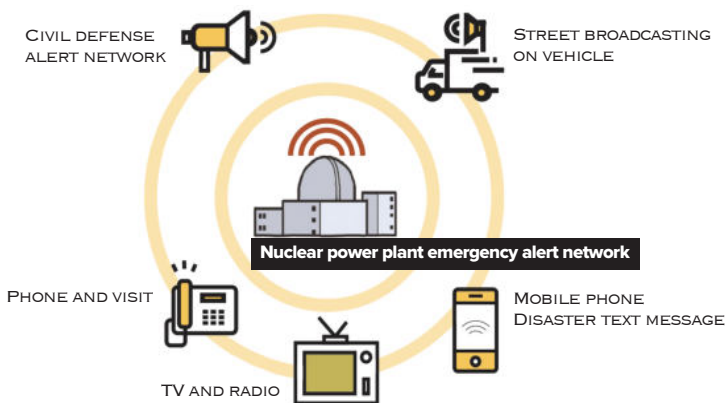
In case of Facility Emergency, it shall be announced through media, etc. by the Nuclear Safety and Security Commission; Site Area or General Emergency shall be announced as follows:

### 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

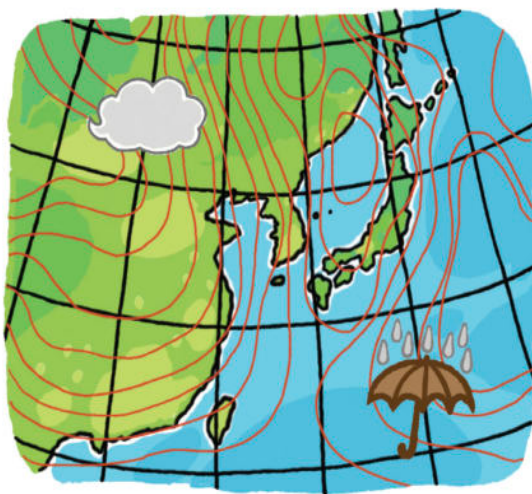
| **Government** | Send out emergency disaster broadcasts (TV, radio, etc.) and emergency disaster text messages



## Know This

# ***Remember this when a radiological emergency occurs***

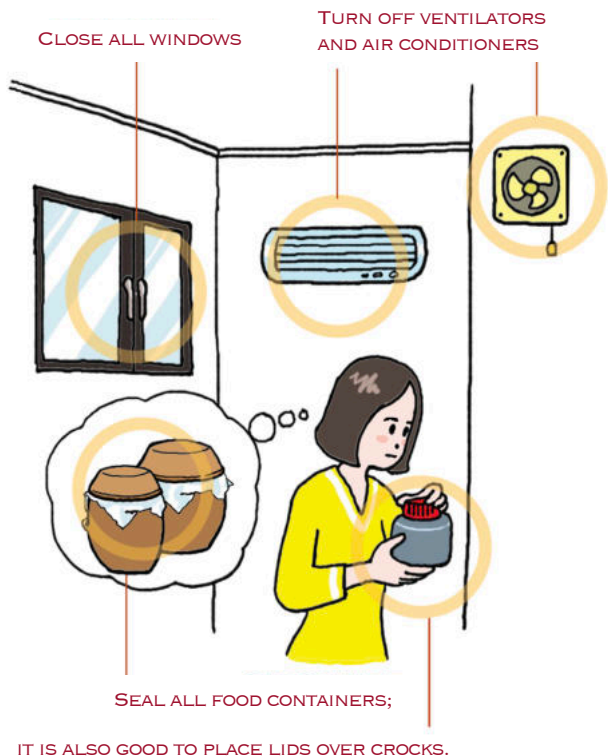
The path of spread of radioactive materials during an accident at a nuclear power plant may change depending on the weather conditions such as direction of the wind.



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.

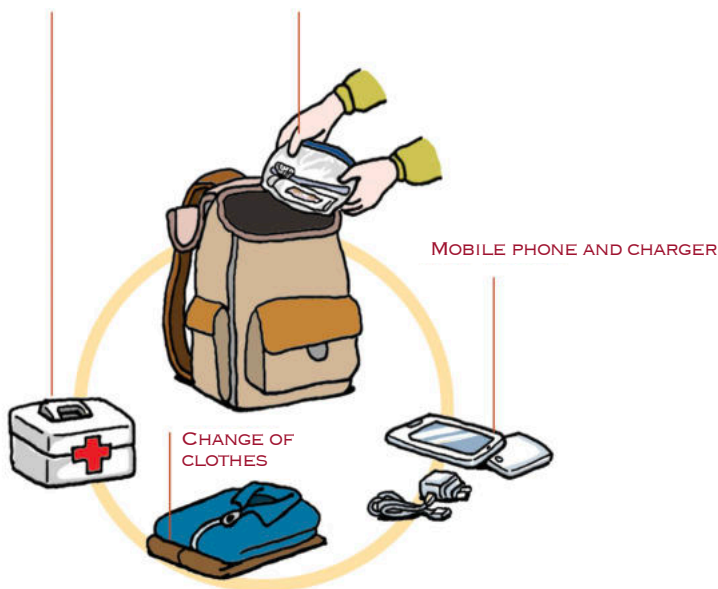
CHECK IF FAUCETS  
ARE TURNED OFF.

## ***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**



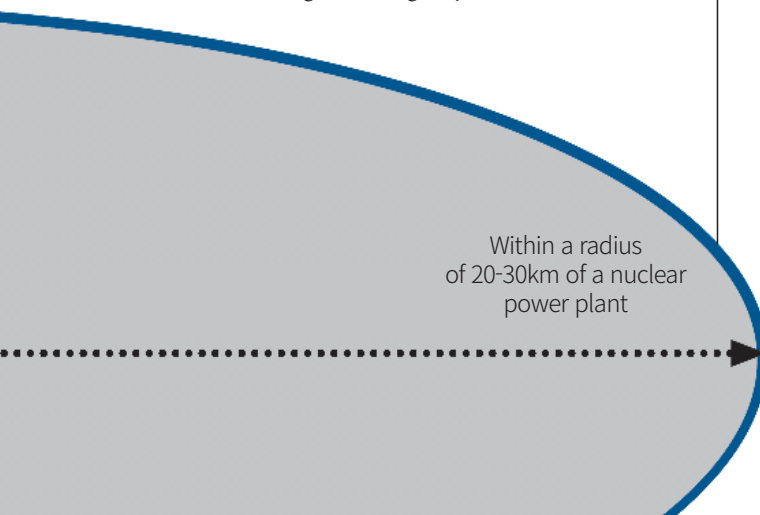


Emergency Planning Zone is divided into  
“Precautionary Action Zone” and  
“Urgent Protective Action Planning Zone”  
based on the distance from a nuclear power plant.

**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



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)



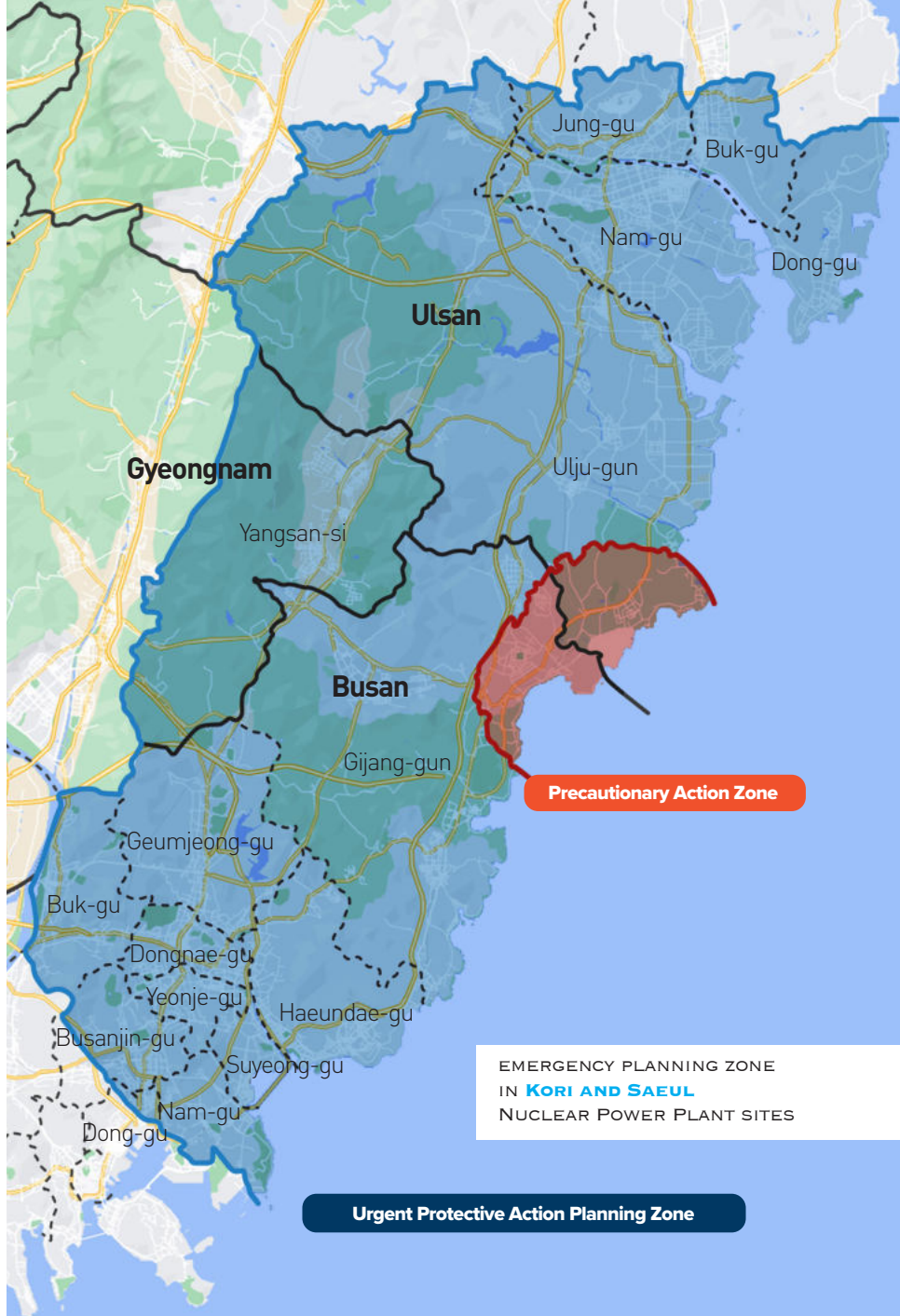


### Urgent Protective Action Planning Zone 20-30km

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, Choeup-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



## 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)
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### 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)





The map shows the region around Wolseong, South Korea, with two main emergency planning zones. The 'Urgent Protective Action Planning Zone' is a large area shaded in light blue, covering parts of Gyeongbuk, Gyeongju-si, Pohang-si, and Ulsan. The 'Precautionary Action Zone' is a smaller area shaded in brown, located on the eastern coast of Ulsan. Major cities and districts labeled include Pohang-si, Gyeongbuk, Gyeongju-si, Ulsan, Ulju-gun, Buk-gu, Jung-gu, Nam-gu, and Dong-gu. A thick blue line marks the border between Gyeongbuk and Ulsan, and a thick black line marks the border between Ulsan and the sea. A network of yellow lines represents major roads, and green areas represent parks or forests.

**Urgent Protective Action Planning Zone**

**Precautionary Action Zone**

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

Examine My Area

# Hanul

## Nuclear Power Plant site Emergency Planning Zone

### Precautionary Action Zone 3-5km

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

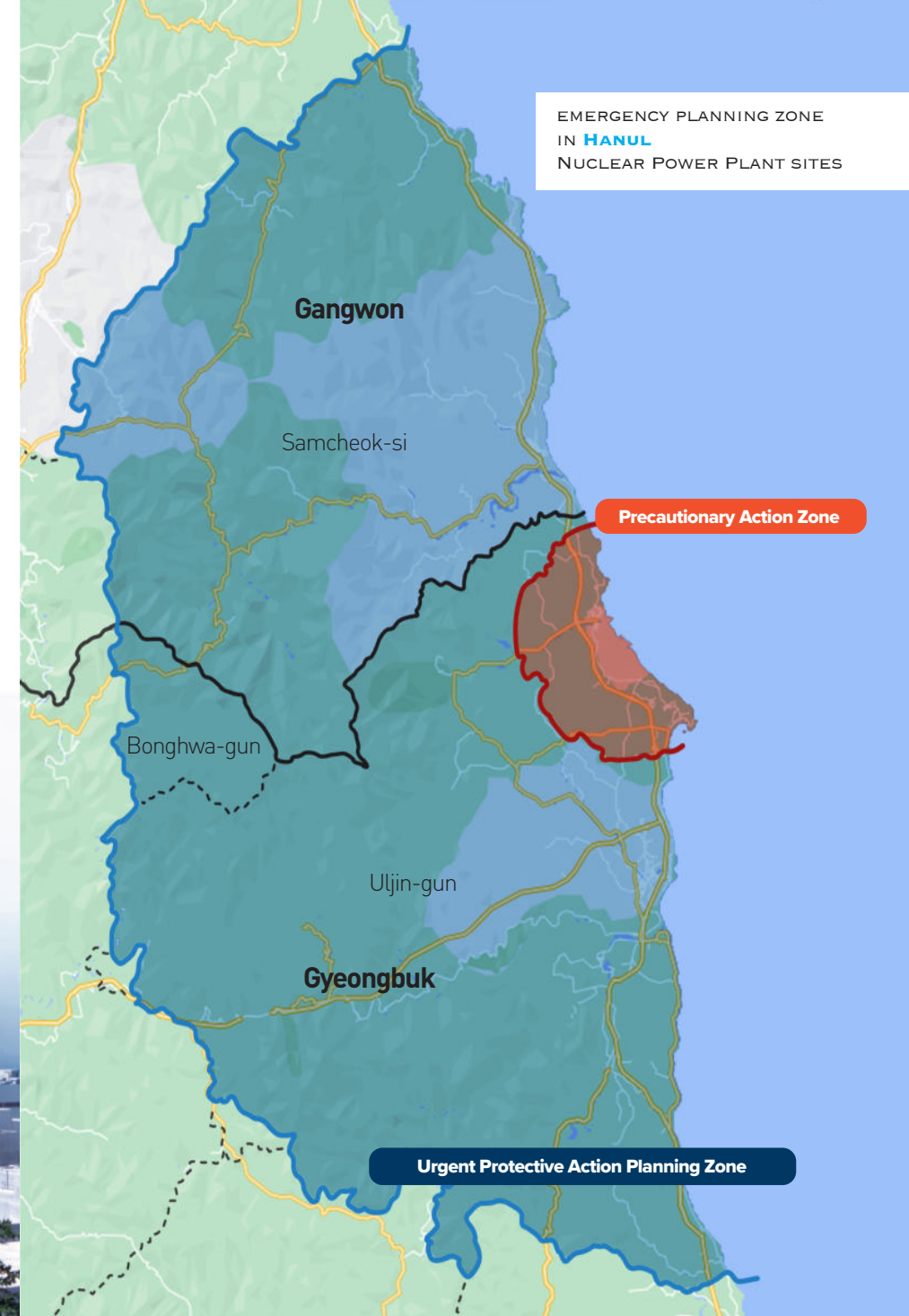
**Precautionary Action Zone**

Bonghwa-gun

Uljin-gun

**Gyeongbuk**

**Urgent Protective Action Planning Zone**



**Examine My Area**

# **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**

Buan-gun

Jeonbuk

Gochang-gun

Jeonnam

Yeonggwang-gun

Jangseong-gun

Muan-gun

Hampyeong-gun

# 2023

RADIOLOGICAL EMERGENCY

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NATIONAL RADIOLOGICAL EMERGENCY PREPAREDNESS SCHEME

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FACILITY EMERGENCY + SITE AREA EMERGENCY + GENERAL EMERGENCY

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RADIOLOGICAL EMERGENCY IS ANNOUNCED THIS WAY

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EMERGENCY PLANNING ZONE

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EMERGENCY PLANNING ZONE BY REGION

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ACTION GUIDELINE IN CASE OF RADIOLOGICAL EMERGENCY

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