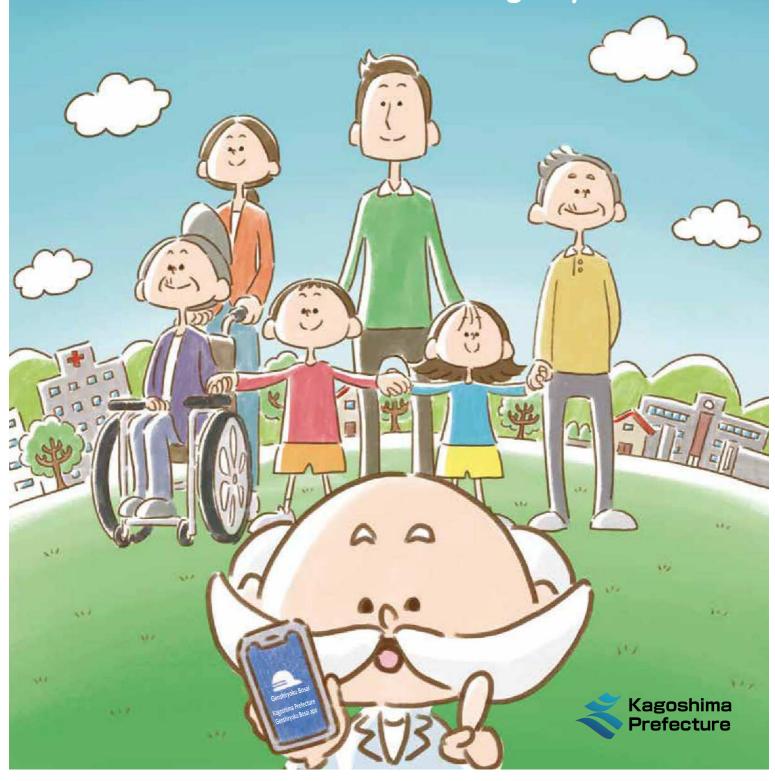
## Nuclear Emergency Preparedness Guide

What to do in case of an emergency –



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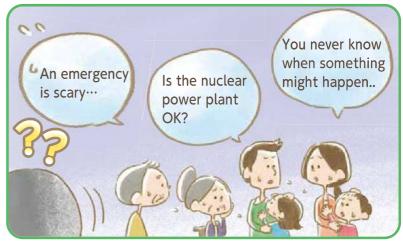
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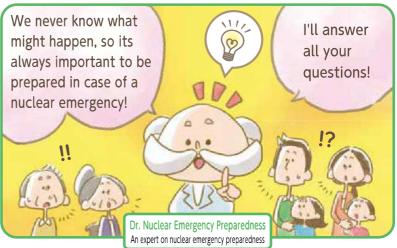
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Genshiryoku Bosai App (Nuclear Emergency Preparedness App)

# Prepare for a nuclear emergency using this useful app



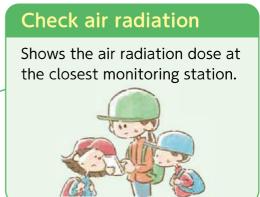
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What is a Nuclear Emergency?

## How to use the app







## Check in at evacuation shelters using a QR code

Register your information in advance to save time.



## Check on your friends and family

Register others as friends and family to check their evacuation status.



## Get updates and notifications at once

Get important information from your local government during an emergency.



## Check your evacuation route

Find the safest route from where you are





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#### Genshiryoku Bosai app

## Main Features

#### Register Information/Search

- Information can be registered any time, even before an emergency occurs.
- You can also register your family's information.
- You can register for stable iodine consulation in advance.



## **Information Guide**

Links to information on emergency preparation.



#### Settings

- See privacy policy and licence information
- Notification settings



#### **During normal times**

You can check information like these in advance:

- ·Air radiation dose at your closest monitoring station
- Evacuation routes
- Shelter locations
- Other emergency action plans



#### QR Code



Show the QR code with your preregistered information at evacuation-related places for a smooth evacuation.

#### **Share Information**



Share real-time updates to disaster prevention officials (eg. road damage).

The app language will change based on the language setting of your device.

(Japanese, English, Chinese [Traditional/Simplified], Korean, Vietnamese)

#### During a nuclear emergency

You can:

- Get important information from your local government.
- Preregister your information for a smooth check-in at evacuation shelters etc.



#### Start using the Genshiryoku Bosai app now!

#### **Download**

Android

iPhone



#### Step2 Register

#### Name, date of birth. address, etc.



#### Step3

#### **Check Information**

- ·Air radiation dose
- Evacuation routes
- Other emergency action plans



#### Step4

#### **During a Nuclear Emergency**

Receive alert, check evacuation route



Check-in at evacuation exit inspection point



Finish evacuation

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#### **Characteristics of a Nuclear Emergency**



## What should I do?



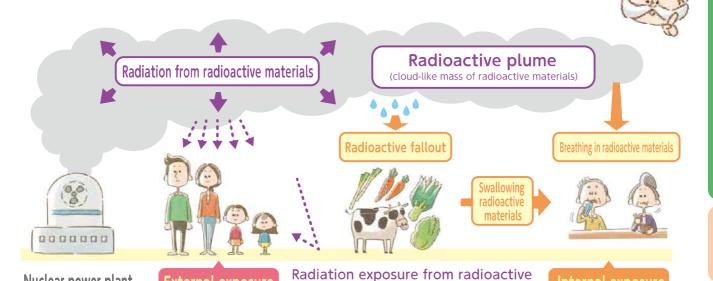


Radiation cannot be felt by the five senses; we cannot see, taste or smell it. Hence unlike natural disasters such as earthquakes, storms and floods, it is hard to judge its effects on your body and how to react.

But radiation can be measured using machines. When there is a nuclear disaster, the government will monitor the status of the nuclear power plant and radiation in the areas around it.

So, it is important to stay calm and follow instructions from the government.

materials deposited on the ground





Nuclear power plant

#### Be prepared for a nuclear emergency

#### Be careful of rumors and fake information

External exposure

Be sure to check the correct information from the government.



#### Check in with your neighbors

Confirm information and reach out to your neighbours, especially the elderly or disabled.



#### Stay calm

Follow the instructions of the local government and police, especially where people gather or on roads.

Internal exposure





#### It is important to evacuate based on the orders from your local government!

During a practice evacuation, residents in the UPZ tried evacuating at the same time without following the instructions of the local government.

As a result, it delayed the evacuation of the residents in the PAZ (<5km radius) for more than 60 hours.

Therefore, please evacuate based on the government instructions for your area.





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#### What is Radiation?

# What are radiation, radioactive materials, and radioactivity?





Radiation is something that can be found everywhere: from space, from the earth, from the air, and even from our food. Even though we cannot see it, it naturally exists in our daily lives.

## From outer space

Cosmic radiation in space is falling down onto the Earth all the time.



## From the earth

A small amount of radiation comes from soil, rocks, etc



## From the air

The air around us has radon, a radioactive gas from the ground.



#### From food

All organic matter including vegetables has potassium which is radioactive.



3

#### The difference between radiation, radioactive materials, and radioactivity

#### **Radiation**

NOTE

Radiation is energy given off by matter in the form of rays or particles similar to light, which can be stopped by various materials.

Exposure is when the body receives radiation.



#### Radioactive materials

Radioactive material is the thing that gives off radiation. If radiation is compared to light, the radioactive material would be the flashlight.

The flashlight is the radioactive material.

The ability to give off light is the

The light is the radiation.

radioactivity.



Radioactivity is the ability of radioactive materials to give off radiation.

The higher the number, the more radiation is given off.



6



#### **Radiation in our Daily Lives**

# When exposed to radiation





Some types of radiation can damage the cells that make up the human body.

You may be able to recover from a low-dose exposure, but too much exposure may have serious bad health effects. It is important to lower exposure as much as possible.

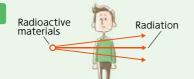
NOTE

#### **Types of Exposure**

Exposure is when the body receives radiation.

#### External exposure

Exposure to radiation from outside the body.



#### Internal exposure

Exposure to radiation from inside the body by breathing in or swallowing.

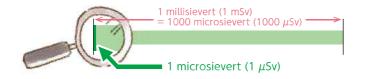


#### How radiation/radioactivity is measured

Becquerel and sievert are units related to radiation and radioactivity.

Becquerel is the amount of radioactivity: the higher it is, the more radiation there is.

Sievert is the radiation exposure that a person receives: the larger it is, the larger the effects of radiation on the human body.





1 sievert (1 Sv) = 1 million microsieverts (1,000,000  $\mu$ Sv) 1 millisievert (1 mSv) = 1000 microsievert (1000  $\mu$ Sv) 1 micro\*sievert (1  $\mu$ Sv)

\*Micro ( $\mu$ ) = one out of one millionth (0.000001 times)

#### Radiation in our daily lives

Radiation exists naturally in many forms in our daily lives.

Natural Radiation	Exposure Dose  µSv (microsievert)	Artificial Radiation
Annual dose per person Global average: 2,400 μSv/year	50,000 10,000	Upper limit allowed for disaster prevention workers, etc. (50,000 μSv/year)
Annual dose per person Japan average: 2,100 μSv/year	1,000	Stomach X-ray: 3000 μSv/scan
•From outer space: 300 μSv •From the air (radon, etc.): 480 μSv •From the earth: 330 μSv •From food sources: 990 μSv	500	Full-body CT scan: 2,400~12,900 μSv/scan
Air travel (Tokyo ↔ New York):	100	Chest X-ray: 60 μSv/scan
80~110 $\mu$ Sv (round trip)	50 ed Topics (2021). 10	Dental imaging: 10 $\mu$ Sv
Source: Graphical Flip-chart of Nuclear & Energy Relate Japan Atomic Energy Relations Organization (JAERO)	ed Topics (2021),	_ = ==================================

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#### **Methods of Sharing Information**

## How is information shared to us?





Information about the nuclear emergency will be broadcast through many ways:

- Disaster prevention wireless broadcasts
- News media (like TV and radio)
- Government websites
- Cars with loudspeakers
- Kagoshima Prefecture's Genshiryoku Bosai app, etc.

It is important to always check for the latest information and be prepared to act fast.







Announcement systems Loudspeaker vehicles Emergency alert messages, etc.



**Broadcast Broadcast** Residents (including tourists, etc.)

●Follow the instructions. ●Continue to check for updates while evacuating. (via radio, mobile phone etc.)



- Details of accident (date, time etc.)
  Status of accident
  Status of nuclear power plant response
- ■Status of government response ■Actions to be taken by residents ■Areas to be evacuated
- Evacuation routes and destinations
  Evacuation exit inspection points
  Stable iodine distribution points

#### How to avoid radiation exposure

Shelter Indoors Shelter indoors at your home, workplace, nearby public facilities etc.

Radiation effects can be lowered by staying inside airtight buildings and having lesser external exposure.

Move Temporarily Althought not urgent, you may be ordered to temporarily relocate from your area (within one week) to lessen exposure.

**Evacuate** Evacuate urgently (within several hours) from areas where air radiation dose is high or may increase.



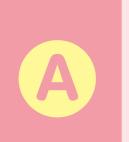
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Know your Distance from the Nuclear Power Plant

Are there different actions to take based on distance from the nuclear power plant?





In the unlikely event of a nuclear emergency, your response will change based on where you live.

■ Living within ~5km radius of Sendal Nuclear Power Station: Evacuate first before radioactive materials are emitted to avoid radiation exposure.

● Living within ~5-30km radius of Sendal Nuclear Power Station:

First, shelter indoors at home or a nearby public facility.

If the air radiation dose exceeds national standards, begin to temporarily relocate or evacuate as instructed by the government.



## PAZ Within 5km of Sendai Nuclear Power Station

Before radioactive materials are emitted:

► Evacuate just in case

Those who risk health problems by evacuating:

\*At designated facilities with protective measures against radiation

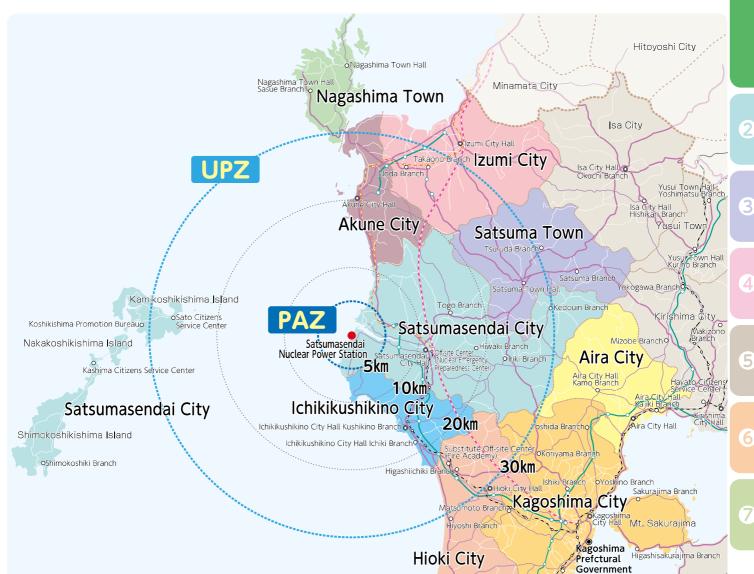
## **UPZ** Within 5~30km of Sendai Nuclear Power Station

In general:

► Shelter indoors

In areas where the air radiation dose exceeds national standards:

Temporarily relocate or evacuate



Fukiage Brancho

#### Areas that need an urgent response

# If there is an emergency at the nuclear power plant, check if you live in an area that need an urgent response.

#### PAZ (Precautionary Action Zone) Within 5km of Sendai Nuclear Power Station

Satsumasendai City Soro, Yorita, Mizuhiki, Mineyama

Higashi-Ichiki-cho Yuda

Higashi-Ichiki-cho Izakuda

Higashi-Ichiki-cho Kaminokawa Kaminokawa

Higashi-Ichiki-cho Minami-kaminokawa
Higashi-Ichiki-cho Miyama
Parts of Miyama
Higashi-Ichiki-cho Terawaki
Makinosumi

## UPZ (Urgent Protective Action Planning Zone) Within 5~30km of Sendai Nuclear Power Station

Kameyama, Eno, Ikuei, Sendai, Hirasa-nishi,	
Hirasa-higashi, Kumanojo, Nagatoshi, Yahata,	
Takaki, Jokami, Yozei, Kichigawa, Yuda, Nishikata,	
Fujimoto, Noshita, Ichihino, Hiwaki, Kurano,	
Soeda, Kiyoshiki, Choyo, Omagoe, Yae,	
Onobuchi, Noze, Yamada, Torimaru, Fujikawa,	
Kamide, Omura, Todoro, Imuta, Sato,	
parts of Kamikoshiki (Nakano, Kamikoshiki-cho Eishi)	



	Kamide, Omura, Todoro, Imuta, Sato, parts of Kamikoshiki (Nakano, Kamikoshiki-cho Eishi)		Hioki City
Ichikikushikino City	All areas		
Akune City	All areas		
Kagoshima City	y Parts of Koriyama-cho, Koriyama-takemachi, Nishimata-cho, Hanao-machi, Yusuki-cho, Ariyada-c		
	Izumi	Jonodan, Kiminagawa, Utsunono	, Obaru-ue, Obaru-shimo
	Nishi-izumi Kokoba, Hiraiwa, Marutsuka, Kurigeno, Egawano, Shimizu, Kami-naka, Shimo-naka, Uwaya, Nozoe, Mad Hanatate-higashi, Hanatate-nishi, Ue-onohara, Shimo-onohara, Nishi-onohara, Higashi-onohara, Tsurum		·
	Sho	Sho-kami, Sho-shimo, Arasaki	
Izumi City (Residents' Associations)	Takaono	Uenohara, Agaritate, Taikobashi, Sengenyama, Matsugano, Okubo, Mitake, Nobira, Ura, Shoko, Motomachi, On Kakujukai-Takaono, Higashi-machi, Machi, Nakazato, Fumoto, Fumoto-danchi, Haginoo, Taiwa, Shibahiki, Shibah Nozoe-kami, Nozoe-shimo, Sunahara, Nakayashiki, Honjo, Uchinono-shimo, Uchinono-kami, Ishizaka, Omoteage, Shimo-Takaono-shimo, Karagasaki, Showa, Tsurusato, Matsunomoto, Kami-zuru, Wood Town, Hoshihara, Nishi-z	
	Euchi	Kyu-bansho, Arasaki, Hiyasuji, Kami-hiyasuji, Dan, Nanpo, Kinomure Renshakuno, Kojima, Nishi-sagarimatsu, Higashi-sagarimatsu, Uraku	
	Noda	Komotsuchiyama, Aokihara, Nozumi, Tenji Haru-machi, Nishi-dori, Naka-machi, Iwamo	ukino, Ohisa, Omaru, Ukeguchi, Shimo-kotte, Suzumatsu, n, Tainichi, Jizo, Kariya, Kajiya-machi, Beppu, Machi, oto, Moto-machi, Hachiman, Kami-tatazono, Tatazono,

Seto, Naka-gori, Yaji, Asahi, Kami-mochii, Shimo-mochii, Joshiko-shiraume-ryo, Nodanosato

Ohira, Kaida-higashi, Kaida-nishi, Marumaki, Ueno-higashi, Ueno-nishi,

Kami-izakuda, Moto-izakura, Naka-izakuda, Kakinosako, Eguchi, Kawakita, Hirasakobira, Akasaki, Tataraguchi, Nagayama

Higashi-Ichiki-cho Yobo Takayama, Hokonohara, Tachiwana, Ogi, Kitayama, Uwatoko, Tashiro, Umeki, Moto-yobo Higashi-Ichiki-cho Nagasato Shimo-yobo, Fumoto-kami, Fumoto-shimo, Furuichi, Jonomachi-kami, Jonomachi, Suginosako, Sakanoue-shita

Mukaeyuda, Ekizen, Chuo, Motoyu, Tanoyu, Horiuchi

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Hioki City

(Residents' Associations)

## Official Sources of Information during a Nuclear Emergency





City



City







Izumi City







Town



Nagashima
Town

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	Higashi-ichiki-cho Miyata	Parts of Miyama		
	Ijuin-cho Shimotaniguchi	Parts of Arase		
	Ijuin-cho Ota	Ota-kami, Ota-naka, Ota-shimo, Kukinono, parts of Joyama		
	Ijuin-cho Tokushige	Parts of Joyama, parts of Arase, Kojo, parts of Setouchi, parts of Tokushige-higashi		
	Ijuin-cho Igakura	Parts of Tokushige-higashi		
	Ijuin-cho Kori	Parts of Setouchi, parts of Tokushige-higashi, Kori-kami, Kori-uchi, Miyawaki, Naka-fukura, Hirako, Kori-shimo, Tachino		
	Ijuin-cho Kamikodono	Kami-kodon, Naka-kodon		
	Ijuin-cho Shimokodono	Shimo-kodon 1, Shimo-kodon 2, Shimo-kodon 3, Shimo-kodon 4		
Hioki City	Ijuin-cho Kuwabata	Kuwabata		
(Residents' Associations)	Ijuin-cho Noda	Noda		
	Ijuin-cho Terawaki	Terawaki		
	Ijuin-cho Myoenji	Myoenji 1, Myoenji 2, Myoenji 3, Myoenji 5, Myoenji 6, Myoenji 7, Myoenji 8, Myoenji 9		
	Ijuin-cho Kori 1-chome	Parts of Kori-shimo		
	Ijuin-cho Kori 2-chome	Parts of Tokushige-higashi, parts of Kori-shimo		
	Hiyoshi-cho Kaminokawa	Nigata		
	Hiyoshi-cho Yamada	Yamada, Nisshin		
	Hiyoshi-cho Hioki	Bishamon, Kusahara		
Aira City	Kamo-cho Shirac	omatsubae Village		
	Miyanojo Yachi	Shironokuchi, Itsuka-machi, Machigashira, Kami-nakamachi, Tenjin, Yachi-baba, Hachiman-baba, Atago, Higashidani, Kawara-machi, Chuo, Wood Town, Kangetsudai, Hope Town, (Miyanojo Hospital, Mutsumi-ryo, Fukushi-en)		
	Torai	Torai-machi, Higashi-machi, Nishi-machi, Todorobaru, Torai-baba, Nishide, Uwamuki, Uwamuki-naka, Torai-osumi, Hodate, Ebikawa, Hinataze, Hitotsuki, Shimo-kawakuchi, (Shiun-ryo)		
	Tokiyoshi	Tokiyoshi-shin-machi, Tokiyoshi-naka-jo		
	Funaki	Funaki-higashi, Funaki-nishi, Funaki-shimo, Asahi, (Mamorie)		
	Kukino	Kukino-kami-mukae, Kukino-nakama-shimo		
	Hirakawa	Shimo-hirakawa, Kami-hirakawa, Osuki-shimo, Osuki-kami		
Satsuma Town	Parts of Yuda	Yunomoto, Yuda-naka, Yuda-kami, Yuda-shimo, (Honobono-en)		
(Public Associations, etc.)	Parts of Sashi	Kishibu, Maeme, Sakura, Kamitera-shita, Mamezuke, Nunoda, Anagawa, Tabaru		
	Yamasaki	Yamasaki-fumoto, Yamasaki-naka, Arase		
	Kubuki	Kitabaru, Onaga, Sumigo, Kubuki-machi, Oze-machi		
	Futawatari	Futawatari-machi, Futawatari, Sukui, Orikono		
	Shiraogawa	Asaino, Shiraogawa		
	Tomarino	Tomarino-takamine, Kirara		
	Parts of Koshi	Yanagino		
	Kashiwabaru	Kami-kawauchi, Ichiba, Suwa-shita, Shoji-shimode, Daiganji, Shimo-kyotsukabaru, Kyotsukabaru, Taneda		
	Shibi	Shibi-shimo, Shibi-naka, Shibi-kami, (Tsurumiya-en)		
Nagashima Town	Yamadono	Tajiri, Hinoura		
rvagasiima rowii	Shimo-yamadono	Shiomi, Gata, Hirono		

Orders given during a Nuclear Emergency PAZ

## What should I do in a nuclear emergency?



1

2

When there is a Nuclear Emergency

Phase

## Emergency level: Alert

Eg.: An earthquake with seismic intensity "6 Lower" or more occurs in Satsumasendai City.



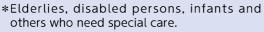
Local Governments Will issue instructions for early evacuation preparations for those within the PAZ who need special care.

This will be via emergency alert emails, broadcast vehicles, loudspeakers, Genshiryoku Bosai app, etc.



(<5km radius)</p> Within the

Those who need early evacuation in the event of a Site Area Emergency\* should prepare to evacuate.



Parents/guardians to pick up children from schools and daycares.



Within the (5~30km radius)

Stay updated on accurate information.



Parents/guardians to pick up children from schools and daycares.



Phase

## **Emergency level: Site Area Emergency**

Eg.: Large leakage of nuclear reactor cooling water

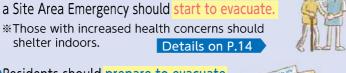
Local Governments Will issue instructions for early evacuation for those within the PAZ who need special care.

This will be via emergency alert emails, broadcast vehicles, loudspeakers, Genshiryoku Bosai app, etc.



(<5km radius)</p> Within the

Those who need early evacuation in the event of



Residents should prepare to evacuate and prepare to take stable iodine.

Children who could not be picked up from schools/daycares will start to be evacuated by bus.

(Parents/guardians should pick up children at the evacuation shelter)





Within the (5~30km radius)

Prepare to shelter indoors.

Stock

Continue to pick up children from schools/daycares.



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The government will issue orders based on the situation at the power plant (if radioactive materials have been emitted, and what are the air radiation measurements).

It is important to keep updated of accurate information and follow instructions calmly.





#### **Emergency level:** General Emergency

Eg.: Fuel rods in the nuclear reactor are damaged

Local Governments Instructions for taking stable iodine and evacuation within the PAZ will be issued.

This will be via emergency alert emails, broadcast vehicles, loudspeakers, Genshiryoku Bosai app, etc.



#### (<5km radius) Within the

Residents should take stable iodine and start evacuating.



#### Within the UPZ (5~30km radius)

- Shelter indoors at your home, workplace, nearby public facilities, etc.
- Children who could not be picked up from schools/ daycares will shelter indoors at school.



#### More than $20\mu Sv/hr$

▶ If orders to temporarily relocate are issued: temporarily relocate within 1 week.

#### More than $500\mu Sv/hr$

- ▶ If evacuation orders are issued: evacuate within several hours.
- \*Get your dosage of stable iodine at an emergency distribution center then temporarily relocate/evacuate.

Children who could not be picked up from schools/daycares should be picked up by parents/guardians at the temporary relocation or evacuation facility.



#### For more details on what to do:

#### Evacuate [PAZ]

Evacuate first before radioactive materials are released.

See P.14

Quickly take shelter indoors at your home. workplace, or nearby public facility.

See P.15

#### Shelter Indoors [UPZ] Temporarily Relocate/Evacuate [UPZ]

When air radiation dose in your area is more than national standards.

See P.16

When there

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Nuclear Emergency

#### What to Do PAZ UPZ

## What to do if instructed to temporarily relocate or evacuate?





2 When there is a Nuclear Emergency



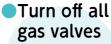
- 1) Listen carefully to the instructions.
- 2) Make sure to turn off your gas and electricity.
- 3) Lock your doors.
- 4) Check in on your neighbors.

It is important to always be prepared for an emergency.



Listen carefully to instructions







Turn off electricity by shutting off the main breaker



Lock all doors and windows



Check on your neighbors



#### **Always Prepare:**

#### Valuables/Important Documents

- Cash (including coins)
- Bankbook, personal seal Health insurance card, driver's license
- Passport
- Maternal and Child Health Handbook

Non-Perishable Food

Disability Recordbook

Hardtack, canned goods

Dietary supplements

Drinking water

Candy/chocolate

#### **Daily Items**

- Disposable heat pack
- Gloves, slippers
- Lighter/matches
- ─ Writing utensils Disposable toilet
- Change of clothes, toothbrush
- Picnic sheet/tarp

#### **Emergency Items**

- Mobile phone and charger
- Portable battery
- Portable radio
- ☐ Flashlight
- Spare batteries, chargers
- ☐ Protective hood



#### 3







#### First Aid

- ☐ First aid kit
- ☐ Medicine
- Medicine Recordbook



#### **Infection Prevention**

- Masks
- Hand sanitizer
- Thermometer
- Liquid soap
- Towels, disinfectant sheets
  - Plastic bags



#### Wear a mask, hat, and raincoat while evacuating

#### Clothes to wear during evacuation

Protect your skin from touching radioactive materials as much as possible by wearing a raincoat etc.

If your clothing touches radioactive materials, you will need to change them. Just wearing a mask or covering your mouth and nose with a towel or handkerchief can help stop breathing in radioactive materials.

Raincoat with hood Mask

Gloves

Long pants

Socks





#### When Ordered to Evacuate PAZ

## What to do if ordered to evacuate?





Residents within the PAZ (<5km radius) are to evacuate just in case before radioactive materials are emitted.

When there is an evacuation order is issued, in general use your own car. Stable iodine will be given in advance to residents within the PAZ. It will also be given at temporary assembly points for those who do not have it. For more informmation, contact Satsumasendai City.



- Evacuate by mobility/welfare vehicle to an evacuation shelter.
- Those who risk increased health concerns by evacuating should shelter indoors at a facility with radiation protection measures.

Go to an evacuation shelter when transport preparations are done.

Persons requiring special care who live at home may be evacuated to a Welfare Evacuation Shelter for their safety.



\*These include the elderly, disabled, those who need more time for evacuation, pregnant women, those with infants, and those who cannot take stable iodine as instructed by a doctor.



- Evacuate by car.
- If you cannot evacuate by car, walk to the temporary assembly point and take a bus to the evacuation shelter.



#### **Evacuation Destinations by Area**

Area	Evacuation Facility	Address	Tel. #
Soro Area	Prefectural General Sports Center (Budokan)	1-4-20 Yojiro, Kagoshima City	099-255-0146
Yorita Area	Prefectural Culture Center (Houzan Hall)	5-3 Yamashita-cho, Kagoshima City	099-223-4221
	Prefectural Culture Center (Houzan Hall)	5-3 Yamashita-cho, Kagoshima City	099-223-4221
Mizuhiki Area	Kagoshima Prefectural Citizens' Exchange Center	14-50 Yamashita-cho, Kagoshima City	099-221-6600
	Kagoshima Prefectural Library Main Building	7-1 Shiroyama-cho, Kagoshima City	099-224-9511
Mineyama Area	Kagoshima School for the Blind Gymnasium	1-3-3 Nishi-taniyama, Kagoshima City	099-263-6660
	Kaiyo High School Gymnasium	1-2-1 Nishi-taniyama, Kagoshima City	099-263-3733
	Kagoshima Minami High School Gymnasium	8-4-1 Taniyama-chuo, Kagoshima City	099-268-2255

#### Those who need special care and risk increased health concerns by evacuating

They should shelter indoors at the nearest facility with radiation protection measures.

Map of public facilities with radiation protection measures (14 locations):



When there ۵ Nuclear Emergency