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What to do if ordered to shelter indoors?



Residents within the UPZ (5-30km radius) should first shelter indoors. When the order to shelter indoors is issued, enter a building at once, such as your home, workplace, or the nearest public facility.

Do not go outside until instructed to do so. Going outside may increase the risk of exposure if radioactive materials are emitted.



Stay calm when sheltering indoors!

Wash your hands and face, and gargle.

Turn off ventilating fans.

Close doors and windows.

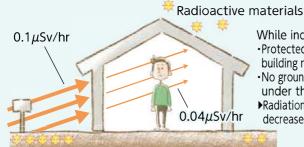


Cover food with clingwrap or lids.

Keep updated with accurate information.

NOTE

How to reduce exposure



While indoors:

- Protected by building materials
- No ground contamination under the building
- ▶ Radiation exposure decreases

Location	Reduction Factor*
Wooden house (1-2 floors)	0.4
Concrete or brick house (1-2 floors)	0.2
1st or 2nd floor of 3-4 floor building (450~900m2 per floor)	0.05
Upper floors of multi-floor building (over 900m2 per floor)	0.01
*Patio of the indeer dose to the or	itdoor doco

*Ratio of the indoor dose to the outdoor dose

Basic idea of sheltering indoors during infection disease outbreaks.

When sheltering indoors, it is most important to avoid exposure to radioactive materials so do not ventilate. Keep windows and doors closed.





What should I do if instructed to temporarily relocate or evacuate?

When Instructed to Temporarily Relocate or Evacuate





First prepare to leave, then calmly follow the instructions from your local government.

Residents within the UPZ will not be temporarily relocated or evacuated all at once.

If the air radiation dose in your area exceeds national standards, you will be given the order to move



Air radiation doses that exceed national standards

If exceeds $20\mu Sv$ per hour: temporarily relocate within one week as instructed by the government

Evacuate

If exceeds 500 µSv per hour: evacuate within several hours as instructed by the government

If you can evacuate by car

- Drive to the emergency distribution point to get stable iodine.
- Undergo a check at the evacuation exit inspection point.
- Go to an evacuation shelter.

(Inspection Point)

If you cannot evacuate by car

- · Walk to the temporary assembly point.
- · Board a bus to the emergency distribution point to get
- Undergo a check at the evacuation exit inspection point.
- Go to an evacuation shelter.



● As a general rule, evacuate by car. ■ Contact your local government for more details.

Evacuation Destinations by Municipality

Municipality	Evacuation Destination
Satsumasendai City	Kagoshima City, Kirishima City, Aira City, Yusui Town, Tarumizu City, Soo City, Minamisatsuma City, Satsumasendai City
Ichikikushikino City	Kagoshima City, Makurazaki City, Ibusuki City, Minamikyushu City
Akune City	Nagashima Town, Aira City, Isa City, Yusui Town, Ashikita Town (Kumamoto), Tsunagi Town (Kumamoto)
Izumi City	Isa City, Kirishima City, Minamata City (Kumamoto), Izumi City
Hioki City	Minamisatsuma City, Hioki City
Satsuma Town	Kagoshima City, Kirishima City, Satsuma Town
Kagoshima City, Aira City, Nagashima Town	Within each municipality

When there is a Nuclear Emergency

Evacuation Exit Inspection Procedure

What to do during an evacuation exit inspection?









At evacuation exit inspection points set up along the way to evacuation shelters, your car, clothes, etc. will be tested for radioactive materials.

If the test results is more than the standard radiation level, a simple decontamination will be done.

Stable iodine will also be given along the way to those who do not have it.

When evacuating by private car or bus, the vehicle is first tested for radioactive materials.

If the radioactive material on the vehicle does not exceed the standard level, or the level is below the standard for simple decontamination, you may continue to an evacuation shelter.





Is the level of radioactive materials on the vehicle higher than standard?



Is the level of radioactive materials on the group's representative higher than standard?



Is the level of radioactive materials on the other group members higher than standard?



Are there any radioactive materials left after the simple decontamination?



Continue to evacuation shelter

 *After the simple decontamination, things that are still contaminated with higher than standard levels of radioactive materials will be temporarily kept at the inspection site.



Go to a medical institution for decontamination

Medical System in the Event of a Nuclear Emergency

Nuclear Emergency Core Hospital

2 medical institutions Kagoshima University Hospital, Saiseikai Sendai Hospital During a nuclear emergency, all sick or wounded



Support F

- Advanced Radiation Emergency
- Medicine Support Centers
 Nuclear Disaster Medical Care and
 General Support Centers

National Institutes for Quantum and Radiological Science and Technology, Nagasaki University



Cooperation

Nuclear Emergency Medical Cooperative Institutions

16 medical institutions (Kagoshima City Hospital, Kagoshima Medical Center, etc.) 17 other facilities (prefectural public health centers, etc.)





Nuclear Emergency













Evacuation Exit Inspection Points

Where are the inspection points during an evacuation?





There are 21 possible locations which are near evacuation routes.







To have a smooth evacuation process during an emergency, these locations are chosen by considering:

- distance to be within 30km of evacuation shelters
- •the evacuation routes
- how easy to reach from evacuation routes
- ·the size, and so on



Possible locations of evacuation exit inspection points

Nagashima Town

- Open space outside the former Sunset Nagashima
- Nagashima Town Jokawauchi Athletic Ground
- 3 Kawatoko Community Athletic Ground

Izumi City

- 4 Izumi City Sports Park and Gymnasium
- 5 Hokusatsu Regional Promotion Bureau, Izumi Office

Satsumasendai City (Kamikoshikishima Island)

- O Nakakoshiki Fishing Harbor
- Along Pref. Road 348 (Nakano, Kamikoshiki-cho)

Satsuma Town

- ® Kashiwabaru Ground
- Satsuma General Sports Park
- Miyanojo General Sports Park

Aira City

- 1 Aira City Kamo Gymnasium
- Kagoshima Prefectural Forestry Technology Center

Hioki City

- **1** Ijuin General Sports Park
- 1 Hioki City General Gymnasium and Central Community Center
- Hiyoshi General Gymnasium
- 6 Hioki City Fukiagehama Park Gymnasium
- Thioki City Fukiagehama Central Community Center
- Kagoshima Prefectural College of Agriculture

Kagoshima City

- Koriyama General Sports Park
- Matsumoto Hiranooka Sports Park
- Kagoshima Prefectural Soccer and Rugby Grounds

U

When there is a Nuclear Emergency

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What shou a storm or







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During a Complex Disaster





During a complex disaster (nuclear emergency + typhoon or storm), physical safety is the most important. You should shelter indoors until weather conditions are better.

Then, you should temporarily relocate or evacuate.

(Those within the PAZ with increased health risks should shelter indoors at a designated facilities.)



When typhoons or storms happen and Japan Meteorological Agency issues emergency warnings



Once the weather is better





When ordered to evacuate (for those who need special care

Prepare to evacuate, and shelter indoors at home.*



- Evacuate by mobility/welfare vehicle to an evacuation shelter outside the UPZ.
- Those who have risks of health problems by evacuating should shelter indoors at a facility with radiation protection.
- · When transport is ready, go to an evacuation shelter outside the UPZ.





When ordered to evacuate (for residents

Prepare to evacuate, and shelter indoors at home.*



[Evacuate by car] •Evacuate by car to an evacuation shelter outside the UPZ.



[Evacuate by bus]

- ·Walk to the temporary assembly point
- ·Evacuate by bus to an evacuation shelter outside the UPZ.



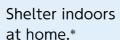








When ordered to temporary relocate or evacuate (for residents)



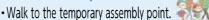






- Do a check at the evacuation exit inspection point.
- Go to an evacuation shelter outside the UPZ.

[Evacuate by bus]





- Take a bus to the emergency distribution point to receive stable iodine.
- Do a check at the evacuation exit inspection point.
- Go to an evacuation shelter outside the UPZ.
- *If the local government issued an evacuation order related to landslides, floods, etc., evacuate indoors to a safe location (such as a designated emergency evacuation site).



What should I do if sheltering indoors is difficult due to earthquakes, etc.?





If your home is damaged or destroyed by an earthquake, etc., you should evacuate to a nearby evacuation shelter for your safety. If you are sheltering indoors and there are aftershocks which make it difficult to stay where you are, you should quickly evacuate to a shelter.

It is most important to escape from the earthquake.

During a Complex Disaster

Outside the UPZ

Go to evacuation shelter

Earthquake

Alert

Site Area Emergency (prepare to shelter indoors

General Emergency

(order to shelter indoors is issued)



If sheltering at home becomes difficult due to earthquakes, etc.



Prepare to shelter indoors



Shelter indoors at home



damaged, shelter at a nearby evacuation shelter, etc.



If your home is

Evacuate by car or bus



Aftershocks occur

Continue to shelter indoors at a nearby evacuation shelter



Evacuate by car or bus



If your home is damaged and you are at an evacuation shelter, but staying indoors becomes difficult due to earthquakes, etc



If your home is damaged, shelter indoors at a nearby evacuation shelter, etc.



Preventing Infection during Emergencies

How should I prevent infection during an emergency?

















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When evacuating:

- Avoid the "Three Cs" (closed spaces, crowded places, and close contact situations).
- Wear masks.
- Disinfect your hands properly and often.
- •Keep a suitable distance from others.



Stopping infectious diseases from spreading during a nuclear emergence

At time of evacuation

- Do a health check in advance
- Wear a mask
- Wash or disinfect hands often
- Avoid talking unless **important**
- Lessen time spent eating or drinking



When in contact with infected patients

Patients with fever or cough

Contact your doctor or health care center if you suspect you may be infected



On evacuation buses

- Sit with your family
- Keep a suitable distance from others



At temporary assembly points

Keep a distance from others



At the evacuation shelters

Keep a distance from others



When sheltering indoors

Do not ventilate (Keep doors and windows closed)







What should I do at the evacuation shelter?





Each area keeps a stock of food and daily items in case of an emergency.

Staff will help with evacuation, so it is important to cooperate and remain calm.

What to do

Registration

- Arrive at the evacuation shelter
- Follow the instructions of the staff
- Fill in the information correctly
- Finish registration



2 Follow staff instructions

- The staff will give updates and important information
- Follow their instructions and act calmly



3 Health consultation

 Health care professionals will be there to help with any health concerns at the evacuation shelter



4 Exercise moderately

- Do some exercise and remember to drink water
- This is to prevent economy-class syndrome (blood clots from not moving

from not moving for a long time)



5 Food and drinks

Food, drinks, and everyday items will be given at the evacuation shelter



6 Keep good hygiene

- To lower the spread of infections and food poisoning
- Eg. by washing your hand often



*To estimate internal radiation exposure, simple measurements of the thyroid gland may be taken.









At the Evacuation Shelter

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What to do during a nuclear emergency (summary)

Humans cannot detect radiation, it is important to act calml and follow the government's instructions.









- Prepare to evacuate people who need early evacuation in a Site Area Emergency* *Elderly people, persons with disabilities, infants, and those who need special care
- Pick up children from schools and daycares





Stay updated with accurate information





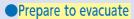


te Area Emergency

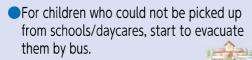


Start to evacuate those who need early evacuation in a Site Area Emergency

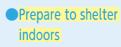
*Those who risk increased health concerns should shelter indoors Details on p.14



Prepare to take stable iodine



Parents/guardians should pick them up at the evacuation shelter



from schools/

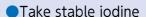
daycares



Continue to pick up children from schools/daycares







Began to evacuate



Shelter indoors at your home, workplace, nearby public facility, etc.

Children who could not be picked up from schools/daycares will shelter indoors at school



Official information will be broadcast via TV. radio, emergency loudspeaker, broadcast vehicles, Genshiryoku Bosai app, etc.



More than 20µSv/hr

Temporarily relocate within one week if orders are given in your area

More than 500µSv/hr

- Evacuate within several hours if orders are given in your area
- Children who could not be picked up from schools/daycares should be picked up at the relocation or evacuation facility





Stable Iodine



What is Stable Iodine?





- ·When a nuclear emergency happens, radioactive iodine can sometimes be released.
- ·If it enters the body, it will gather in the thyroid gland and can increase the risk of thyroid cancer next time.
- ·Stable iodine can block the thyroid gland from absorbing the radioactive iodine.

Important!



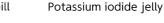




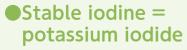
- Stable iodine prevents internal exposure to radioactive iodine only and no others.
- The iodine in mouthwash or disinfectant products is not stable iodine.
- They should not be used as a replacement.

Potassium iodide pill

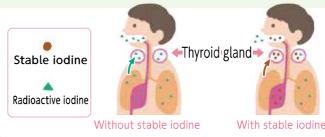
NOTE



Ingredients and Side Effects



- Form: pills, jellies, or powder
- If in powder form, it is prepared as a liquid and can be given to children under 3 years old and by those who find it hard to swallow pills.



Dosage

Under	Newborns:	1 x 16.3mg jelly pack
3 years old	1 month-3 years old:	1 x 32.5mg jelly pack
Above	3-13 years old:	1 x 50mg pill
3 years old	Over 13 years old:	2 x 50mg pill

- In general, take only 1 dose
- ●It is more important to evacuate to a place without radiation instead of taking the second dose
- Instructions for taking stable iodine will be given by the government following the Nuclear Regulation Authority
- When to take the stable iodine is very important for it to be
- Take it only when given directions by the relevant authorities

- **Side effects:** •General hypersensitivity: rashes, etc.
 - •Digestive system issues: nausea/vomiting, stomach pain, diarrhea, burning sensation in mouth/throat, metallic taste, toothache, gum pain, bloody stools, etc.
 - •Others: hypothyroidism, headache, shortness of breath, cold-like symptoms, irregular heartbeat, rashes, fever, and/or swelling in the neck or throat

Do not take if: you have a pre-existing history of hypersensitivity to the ingredients of stable iodine or iodine. Be careful if: you are undergoing medical treatment, and check with your doctor about using stable iodine

How is it distributed

Residents within

- Distributed in advance
- the PAZ (<5km radius) •Please attend the explanatory meetings

Residents within

- •It would be distributed urgently when in need, from stockpiles in the city and public health centers.
- the UPZ (5-30km radius) •It can be distributed in advance on request by those who are eligible (eg. those with disability and illness, and will be difficult to receive during an emergency).
 - •For more information on how to apply for this advance distribution, there will be instructions on pamphlets etc. given out to residents within the UPZ.





Monitoring Air Radiation

How is air radiation monitored?



















Kagoshima Prefecture measures the air radiation at monitoring posts around the nuclear power plant for 24 hours a day.

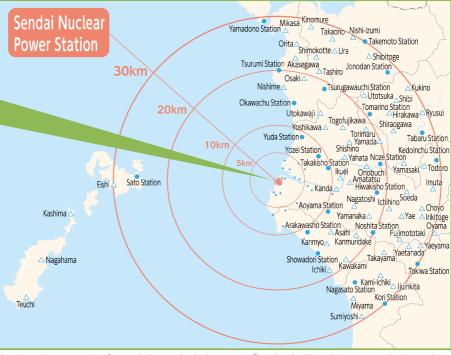
The environmental radiation levels are monitored during normal times. This tells us how it affects the people and area around the Sendai Nuclear Power Plant.



Air Radiation Monitoring Points





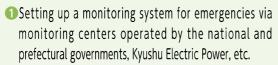


on your phone!

Check the air radiation

NOTE

Emergency Monitoring



Monitoring using the monitoring points and electronic dosimeters at 100 places around the nuclear power plant, and using this data for protective purposes.



Kagoshima environmental radiation monitoring information





[Android]



Genshiryoku Bosai app

shows the air radiation at the monitoring point closest to you.







Contact Details of Disaster Management Offices

[City/Town Halls]

Name	Tel. #	Website	
Satsumasendai City Hall (Disaster Prevension and Safety Division)	0996(23)5111		
Ichikikushikino City Hall (Urban Policy and Disaster Prevention Division)	0996(32)3111		
Akune City Hall (General Affairs Division)	0996(73)1210		
Kagoshima City Hall (Crisis Management Division)	099(216)1213		
Izumi City Hall (Safety and Security Promotion Division)	0996(63)2111		

*If you cannot scan the QR code, cover the nearby QR codes and try again.

Name	Tel. #	Website	
Hioki City Hall (General Affairs Division)	099(273)2111	17. (2040) (4.4)	
Aira City Hall (Crisis Management Division)	0995(66)3111	B 0 B	
Satsuma Town Hall (General Affairs Division)	0996(53)1111		
Nagashima Town Hall (General Affairs Division)	0996(86)1111		

[Fire/Police Departments]

	-	
Name	Tel.#	Website
Satsumasendai City Fire Department	0996(22)0119	
Ichikikushikino City Fire Department	0996(32)0119	
Akune Fire Department	0996(72)0119	
Kagoshima City Fire Prevention Bureau	099(222)0119	
Izumi City Fire Department	0996(63)0119	
Hioki City Fire Department	099(272)0119	EMPAGEMENT
Aira City Fire Department	0995(63)3287	
Satsuma Town Fire Department	0996(52)0119	
Akune Fire Department East Detachment Office	0996(86)0119	

Name	Tel. #	Website
Kagoshima Prefecture Police Headquarters (Security Division)	099(206)0110	
Satsumasendai Police Station	0996(20)0110	
Ichikikushikino Police Station	0996(33)0110	
Akune Police Station	0996(73)0110	
Kagoshima Nishi Police Station	099(285)0110	
Izumi Police Station	0996(62)0110	Electrons
Hioki Police Station	099(273)0110	
Aira Police Station	0995(65)0110	
Satsuma Police Station	0996(53)0110	

[Prefectural/National]

Name	Tel. #	Website
Kagoshima Prefectural Government (Nuclear Safety Affairs Division)	099(286)2543	m98480m
Kagoshima Hokusatsu Regional Promotion Bureau (General Affairs and Planning Division)	0996(25)5106	
Kagoshima Prefecture Sensatsu Public Health Center	0996(23)3165	

Name	Tel. #	Website
Kagoshima Prefecture Environmental Radiation Monitoring Center	0996(20)2230	
Nuclear Regulation Authority, Sendai NRA Regional Office	0996(23)1947	

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Reference

Preparing for Emergencies

(Resident Checklist)

Install the Genshiryoku Bosai app

「Android」 (Google Play Store)



[iPhone]
(App Store)







Fill in your designated emergency assembly site and evacuation shelter

Emergency assembly site

Evacuation shelter

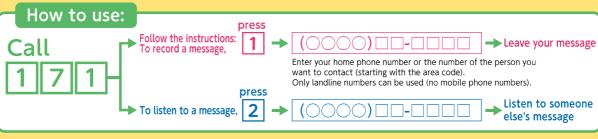
Emergency Kit Checklist

These should also be brought along during natural disasters, so have them ready at all times.

- •Evacuation shelters may not have some things (eg. everyday items), so when packing your kit, it is important to put in things which are difficult to get.
- •Face masks, hats, and raincoats help lessen the radioactive materials you breathe in or touch.
- •Protect your things from contamination by putting them in an emergency backpack and covering with a plastic bag.
- ·As a general rule, evacuate by car, and always keep your fuel tank full.

Valuables/ Important Documents Cash (including coins) Bankbook, personal seal Health insurance card, driver's license Passport Maternal and Child Health Handbook Disability Recordbook	Lighter/matches Writing utensils Disposable toilet	Emergency Items Mobile phone and charger Portable battery Portable radio Flashlight Spare batteries, chargers Helmet Protective hood	Dietary supplements Drinking water Candy/chocolate Water	First aid kit Medicine Medicine Recordbook	Infection Prevention Masks Hand sanitizer Thermometer Liquid soap Towels, disinfectant sheets Plastic bags ings you may need
It is difficult to make phone calls during a disaster.					

Disaster Emergency Message Recorder: Dial



Other disaster message services are also provided by mobile service providers. Please contact your carrier for more details.

Edited and published by:

Nuclear Safety Affairs Division, Crisis Management Department, Kagoshima Prefecture

₹890-8577 10-1 Kamoike-shinmachi, Kagoshima City TEL: 099-286-2543 FAX: 099-286-5925