Summary of Press Conference Comments Made by Satoru Katsuno,
FEPC Chairman, on November 18, 2016

I am Satoru Katsuno, Chairman of the FEPC. Thank you for coming today.

First, regarding the power outage that occurred in Tokyo on the 12th last month, the electricity utilities have received instructions from the Ministry of Economy, Trade, and Industry for emergency inspection of the underground transmission cables, and up until the 11th this month, no abnormality has been reported.
In addition, on the 16th this month, there were instructions to swiftly complete the emergency inspection and prepare fire prevention measures.
We will sincerely follow the instructions and along with quickly responding to them, we will remind ourselves that we are responsible for electricity, an essential lifeline in people's lives, and continue to strive for stable power supply.

Today, I would like to talk about the three points, "Start of full operation of Mihama Nuclear Emergency Support Center", "Implementation of the Paris Agreement", and "Electricity supply and demand forecast for this winter".

1. Start of full operation of Mihama Nuclear Emergency Support Center

First, I would like to talk about the "Start of full operation of Mihama Nuclear Energy Support Center". Please have a look at the distributed handouts.

As shown in page 2, we have been working to prepare a support organization that is responsible for taking various and sophisticated countermeasures in the event of a nuclear power accident, as part of an initiative to independently and continuously improve safety at nuclear stations.

In January 2013, we established the "Nuclear Emergency Support Center" within Japan Atomic Power Company's Tsuruga General Training Center, and along with establishing a support organization, we implemented training for the support.
Specifically, we have trained over 530 electric power employees so far regarding collecting information indoors and outdoors such as radioactivity measurement, and robot operation for removing obstacles. We have also participated over 50 disaster drills at 17 power stations, in order to develop operators.

Along with the above measures, we will start full operation of the "Mihama Nuclear Disaster Support Center" in December 17th, as a result of pursuing for an enriched support contents and establishing a new base facility that has a dedicated training facility.
Coinciding with the start of full operation of the center, we have reinforced the emergency support organization and function from both the hardware side and personnel side together with the industry as a whole, such as deploying a radio-controlled helicopter for gathering information including radioactivity measurement, and radio-controlled heavy machinery for removing obstacles. The overview is shown in page 4 onwards of the handout.

We would like to set this center as a new base for emergency support to further improve the response capability during a nuclear accident. Along with this, we will pursue initiatives to reinforce the measures.

2. Implementation of the Paris Agreement

Next, I will talk about the second point, which is the "implementation of the Paris Agreement".

The COP22, which was being held in Marrakesh, Morocco, since the 7th of this month, will close today.
At the COP22, a practical deliberation of creating new rules to aim for reduction of greenhouse gases started, in response to the implementation of the "Paris Agreement" on the 4th this month.

The "Paris Agreement" is the first international framework that all the major greenhouse emitting countries promise to take on countermeasures for environmental change. This can be seen as a major step forward for the countries to solidly promote initiatives to achieve their goals.
It is my understanding that this practical deliberation of creating rules will continue. As for the government, I hope that they can focus on creating globally fair rules, leveraging on experience and knowledge that Japan has accumulated from independent initiatives.

We electricity utilities would like to contribute in reducing greenhouse gases on a global scale by following the goals set forth by the "Electric Power Council for a Low Carbon Society" and to pursue an optimum energy mix from the viewpoint of "S+3E".

3. Electricity supply and demand forecast for this winter

Lastly, I would like to talk about the "electricity supply and demand forecast for this winter".

At the "electricity supply and demand review meeting" held by the government on the 28th last month, electricity supply and demand measures policy for this winter was decided. Following this summer, the government will not impose any special power saving request.
However, the situation of heavy reliance on thermal power stations has not changed, including highly aging stations. We would like to act on a stable supply of electricity as much as possible from both the supply and demand side, such as reinforcing maintenance and inspection of thermal power stations and providing information about power saving.

The other day, the Nuclear Regulation Authority has compiled a draft review report of Kyushu Electric's Sendai Nuclear Power Station Units 3 and 4. We feel that nuclear power plays a big role in global warming measures, which was mentioned earlier, in addition to securing a sustainable way for securing a stable power supply. We will continue to sincerely deal with the compliance review for the new regulatory requirements, and give earnest explanations to the local community and the general society, and aim for an early restart of nuclear power stations.

This will be all from me today. Thank you very much.

Document

Start of full operation of “Mihama Nuclear Emergency Support Center”

November 18, 2016

The Federation of Electric Power Companies of Japan

An overview of the nuclear emergency support organization

- When an nuclear accident occurs, swiftly assemble an emergency dispatch team, transport personnel and equipment to the operator struck by disaster, and cooperate with the operator to deal with the nuclear accident at high radiation dose.
- During normal times, intensively deploy and manage radio controlled robots, etc., and implement operating training for nuclear operator personnel

Support structure (Fukui)

【Normal times】

○Train personnel
○Ensure communication structure during emergency
○Maintain, control, manage, and improve materials/equipment

【At the time of the nuclear accident occurrence】

Request dispatch

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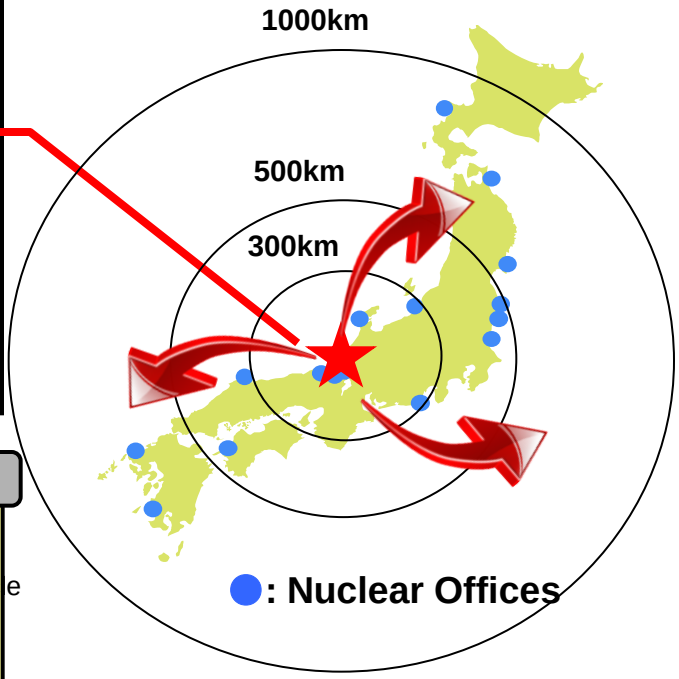
Understanding accident situation

↓

Assemble personnel (Organize emergency dispatch personnel team)

↓

Emergency dispatch (Dispatch personnel・Transfer materials/equipment)



Power plant struck by disaster

Radio control helicopter | Small Robot | Radio controlled heavy machinery

Gathering information in and outside of the building

Removal of obstacles and debris

Personnel / Materials

Disaster Measures Support Base


Materials/equipment vehicle


Personnel dispatch vehicle


Fuel transfer vehicle

○Base for materials/equipment and personnel
○Overall supervision for the site
○Repairing of material

History of establishment of the Organization

Jul. 2012: Announced the establishment of a "Nuclear emergency support organization"

・The Japan Atomic Power Company will lead in acquiring the necessary robots securing the transport method for the robots and materials along with operators from electric utilities.
・ By March 2013, a dedicated team will be dispatched in Fukui prefecture, where many nuclear plants lie and also is pretty much the mid-point of nuclear power stations in Japan.
・ With in FY2015, coordinate with related agencies to establish a "nuclear emergency support organization that is responsible for taking various and sophisticated accident countermeasures.

Jan. 2013: Established a "Nuclear Emergency Support Center"

・・・inside the Tsuruga General Training Center of The Japan Atomic Power Company

・ Established a support structure in case of a nuclear accident. There are nine members in a dedicated team.
・ Continued implementation of measures such as providing training to robot operators from the utilities. Also participated in disaster drills at the electric utilities.
・ The equipment started off with two small robots and one medium robot, and is expanding gradually.
・ Continued deliberation of details for establishing a "nuclear emergency support organization".

Mar. 2016: Established a "Nuclear Emergency Support Organization"

・ Established a "nuclear emergency support organization", with eyes set to start operation of the new base which was under construction at Mihama-cho, Fukui Prefecture upon training personnel, preparing manuals, and reinforcing the organization.

Dec. 2016 Start of full operation of "Mihama Nuclear Emergency Support Center" **(2016.12.17)**

・ Transfer the small and medium robots that is kept at "Nuclear Emergency Support Center" to the new base. This will allow to start operation with six small robots, two medium robots, two radio controlled helicopters, three radio controlled heavy machinery, etc. Increase personnel to 21 members.

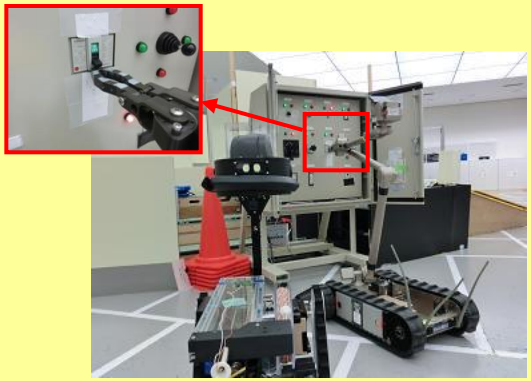
Action status of the “Nuclear Emergency Support Center”

(Inside the Tsuruga General Training Center of The Japan Atomic Power Company)

- Train operators by participating in disaster drills at each power station, in addition to basic robot operations such as collecting information inside and outside including radiation measurement and removing obstacles.

Training within the “Nuclear Emergency Support Center”

Unlock the door, grab the doorknob, open the door, and enter



Opening the control panel and operating the switch

Removing obstacles in the dark

Opening-closing operation of the valve

Training conducted: approx. 530 personnel in total (Nine electric utilities + JAPC + J-Power + JNFL)

Disaster drill at each power station

Drill in the power station

Training on transferring materials/equipment

Training conducted: 17 power stations, approx. 50 times in total

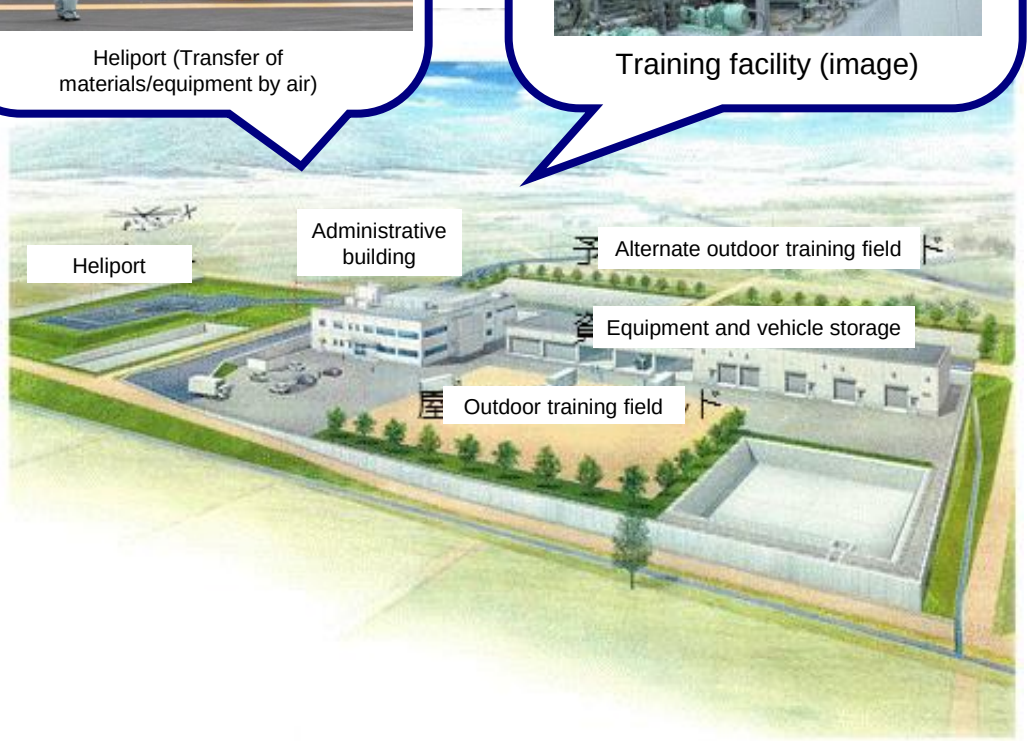
* The training records are as of the end of October 2016

Overview of the “Mihama Nuclear Emergency Support Center” (1)

- The new base, “Mihama Nuclear Emergency Support Center” is planned to commence full operation in December 17, 2016. Equipment will be expanded, and reinforce structure and functionality.

Heliport (Transfer of materials/equipment by air)

Training facility (image)



Example of expanded equipment

Radio controlled helicopter (information gathering from height)

Small and large radio controlled heavy machineries (removing debris etc., outdoor)

Robot control vehicle

Overview of the “Mihama Nuclear Emergency Support Center” (2)

Starting date of the actual operation	December 17, 2016 (planned)		
Operating body	The Federation of Electric Power Companies of Japan, The Japan Atomic Power Company		
Location	Mihama-cho, Mikata-gun, Fukui Prefecture		
Area of the site	Approx. 26,000㎡		
Overview of the facility	**Facilities**	**Usage**	**Specification**
	Office building	Robot running room, operation room, meeting room, office, etc.	Two floor building made of reinforced concrete Total floor space: Approx. 2,000㎡
	Storage for materials/equipments Garage building	Storage for robot materials/equipment, vehicle for transfer, etc.	One floor building made of steel frame Total floor space: Approx. 1,600㎡
	Outdoor training field	Training for radio controlled heavy machineries and helicopters, etc.	Outdoor training Field: Approx. 2,600㎡ Reserve space for outdoor training Field: Approx. 5,500㎡ Total Approx. 8,100㎡
	Heliport	Taking-off and landing of the helicopters that are able to transfer robots	Approx. 6,000㎡
Number of personnel	21 members (planned)		

Overview of the “Mihama Nuclear Emergency Support Center” (3)

■Materials/equipment deployed

(1) Materials/equipment that are remotely controlled

Type	Usage	No. of units
Small-sized robot	Collecting information inside and outside building (including measuring radiation dosage)	5
Medium-sized robot	Removing obstacles inside building	2
Small-sized radio controlled heavy machinery	Removing obstacle inside and outside building	2
Large-sized radio controlled heavy machinery	Transferring equipment, etc.	1
Radio controlled helicopter	Collecting information from height (including measuring radiation dosage)	2

(2) Materials/equipment to be used on site

Type	Usage
Radiation protection materials/equipment	Full-face mask, dosimeters, tyvek (contamination protection clothing), etc.
Materials/equipment for radiation control and decontamination	Decontamination tent, High-pressure cleansing machine, drain water containment tank, survey meter, etc.
Materials/equipment for works	Radio-relay system, maintenance tool, spare parts, etc.
General materials/equipment	Communication equipment, light, power source, fuel, water, food, consumables, etc.

(3) Transportation vehicles

Type	Usage	No. of units
Wagon vehicle	Transporting personnel and light-weight materials/equipment	2
Large-sized truck (vehicles for transferring heavy machineries)	Transporting heavy machinery	1
Medium-sized trucks	Transporting robot, robot and heavy machinery control command center, power sources, etc.	9

Location of the “Mihama Nuclear Emergency Support Center”

New base (Mihama Town)

Current base (Inside the Tsuruga General Training Center of The Japan Atomic Power Company)

Construction status of the new base (As of November 4, 2016)