

# Covid-19 Countermeasures at the Fukushima Daiichi Nuclear Power Station

March 27, 2020



Tokyo Electric Power Company Holdings, Inc.

# 1. Overview of Covid-19 countermeasures implemented at the Fukushima Daiichi Nuclear Power Station



- At the Fukushima Daiichi Nuclear Power Station, infrared thermography is being used to take body surface temperature readings at the entrances to primary buildings\* as a Covid-19 countermeasure. Anyone with a temperature of 37.5°C or higher is not allowed to enter.
  - ※New administration office building, access control facility, partner companies' building, main gate
- TEPCO employees are required to wear surgical masks and to take their temperatures prior to coming to the office (and to refrain from coming to the office if they have a fever). We are continuously collecting information on confirmed or possible infections and have prohibited employees from going on domestic or international business trips in principle.
- Contractors have been instructed to contact the TEPCO labor office in the event of a confirmed or possible infection.
- At current time employees are working on normal work shifts. Countermeasures have been implemented to prevent shift members that are indispensable for moving forward in a stable manner with decommissioning work from contracting the virus.
- All site visitations have been suspended from February 29 through April 30
  - ※As of February 28, the number of visitors during FY2019 was 18,170
- The Covid-19 pandemic has increased the demand for surgical masks and personal protective equipment (PPE) both in Japan and overseas, but at current time we have enough radiological protective equipment to continue the decommissioning of the Fukushima Daiichi Nuclear Power Station.
- As of March 26, 2020, the number of confirmed or possible infections is zero.

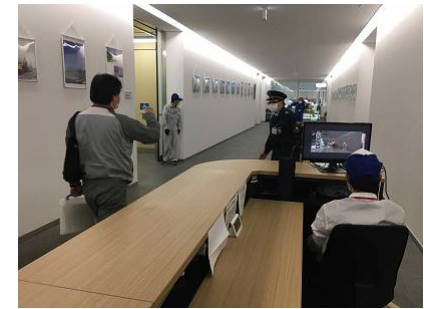
## 2. Covid-19 countermeasures implemented at the Fukushima Daiichi Nuclear Power Station (1/2)



<The following measures apply for both TEPCO employees and contractors>

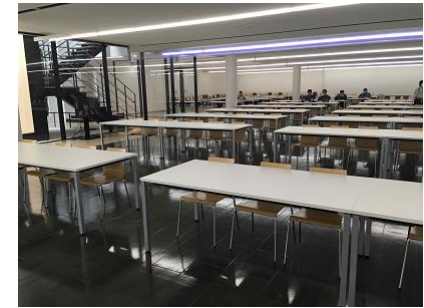
### ■ Body surface temperature readings taken using infrared thermography

- At each power station (new administration office building: two locations, access control facility: two locations, partner companies' building, main gate) body surface temperature readings are being taken and anyone with a temperature of 37.5°C or higher is not being admitted on site or into buildings.



### ■ Workers are prohibited from sitting face-to-face in the cafeteria

- The number of workers allowed in cafeterias has been restricted in order to prevent infection by droplets when sitting face-to-face while eating.



### ■ Countermeasures when entering the main anti-earthquake building technical support center and the Unit 5/6 MCR

- In principle, only operators are being allowed into these locations and anyone entering is required to wash their hands and sterilize them with alcohol, and to wear a mask at all times.
- Entry/exit information (name, department, entry time) is recorded in order to be able to track infections if needed.

<The following measures apply for TEPCO employees>

### ■ Employees are required to wear masks at all times (from Feb 25)

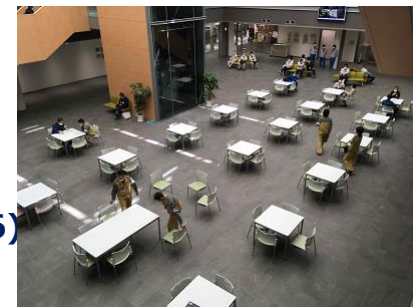
- All site personnel are required to wear masks (personnel that have been temporarily posted away from their families are required to wear masks when returning home for the weekends/holidays, etc.)



## 2. Covid-19 countermeasures implemented at the Fukushima Daiichi Nuclear Power Station (2/2)



- **Employees must take their temperature prior to coming to work and information is being collected on confirmed and possible infections (from Feb 25)**
    - All site personnel are required to take their temperature prior to reporting to work and to report the readings.
    - Personnel with a temperature of 37.5°C or higher are being asked to stay at home and to check in with work managers. A database is being used to keep track of employees.
  - **Business trip restrictions (from Mar 2)**
    - Teleconferences are being leveraged in lieu of actual visits and, in principle, all domestic and overseas business trips have been prohibited except when absolutely necessary.
  - **Employees have been recommended to commute during off-peak hours and to work from home when possible (from Mar 2)**
    - The flex-time system is being employed on a company-wide basis and employees are being recommended to work from home using their company-provided computers and iPads.
  - **Cafeterias in dorms for unmarried employees and employees posted away from their families (from mar 6)**
    - Partitions have been erected and a shift system is being employed for use of cafeterias in order to prevent infections during shift changes.
  - **Restrictions on meetings and events (from Mar 2)**
    - Employees have been asked to refrain from attending meetings or events (assemblies) that may draw an undetermined number of people, and from visiting these locations.
- <The following measures applied to contractors>
- **Contractors have been asked to provide updates (from Mar 2)**
    - Contractors have been asked to contact TEPCO if any of their employees come down with a fever of 37.5°C or higher, or do not feel well (have a sore throat or feel lethargic)
  - **Manufacturers and contractors have been asked to refrain from visiting (from Mar 6)**
    - Major contractors have been asked to refrain from any unnecessary visits, and to wear nonwoven fabric masks when coming on site.
    - In principle, all meetings in the new administration office building are to be held in the center hall on the first floor.



# 3. Information on the shift system at the Fukushima Daiichi Nuclear Power Station



- **At current time employees are working on normal work shifts**
- **The following countermeasures have been implemented to prevent shift members that are engaged in fuel debris management, the continual cooling of spent fuel, and contaminated water treatment, which are tasks that are indispensable for moving forward with decommissioning work in a stable manner, from contracting the virus.**
  - **Commuter bus restrictions**
    - The “shift-member priority bus” has been changed to the “shift-member only bus”
  - **Shift members have been asked to avoid contact with non-operations personnel in building hallways, etc.**
    - Establishing a separate route from the access control facility to the main anti-earthquake building is being deliberated
    - The changing room usually reserved for visitors is being borrowed in order to separate shift personnel from non-shift personnel
    - The entry/exit to the main anti-earthquake building central monitoring room has been changed (to separate operators from maintenance personnel and workers)
  - **Operator task environments**
    - Work orders are now being given outside of the central monitoring room.
    - Information that needs to be passed on to the next shift is being prepared in advance so as to enable this information to be passed on quickly and while maintaining a fixed distance from other shift members.
  - **Independent air-conditioning systems are being used to prevent the virus from spreading to other areas**
    - The air conditioning systems for the main anti-earthquake building technical support center and the unit 5/6 MCR's are independent and separate from those used for other areas.

### ■ Visits

- All site visits have been suspended from February 29 to April 30. The exact time when visits will be allowed again shall be determined based upon social conditions.
- As of February 28, the number of visitors during FY2019 was 18,170

### ■ Personal protective equipment

- The Covid-19 pandemic has increased the demand for surgical masks and personal protective equipment both in Japan and overseas, but at current time we have enough radiological protective equipment to continue the decommissioning of the Fukushima Daiichi Nuclear Power Station.
- We fear that manufacturing supply chain issues will persist over the long-term. Therefore, in order to maintain current levels of safety required during the decommissioning of the Fukushima Daiichi Nuclear Power Station, we need to make adjustments as necessary to ensure a stable supply of personal protective equipment, such as seeking this equipment from other vendors. We have also implemented measures to flexibly use personal protective equipment in order to ensure the safety of workers.