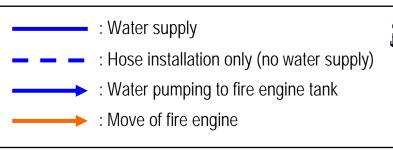
# Outline of Water Injection to Reactors by Fire Engines

#### <Legend>





: Fire engine of OO

R/B: Reactor building

T/B: Turbine building

1F: Fukushima Daiichi Nuclear Power Plant

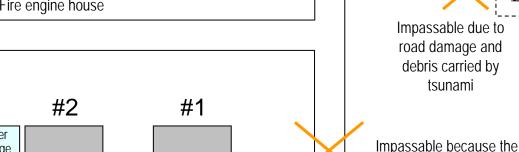
2F: Fukushima Daiini Nuclear Power Plant

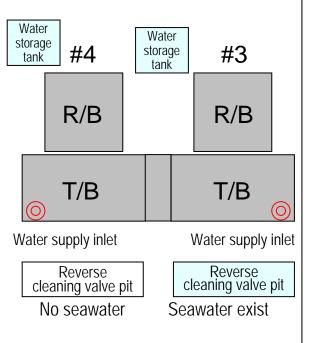
KK: Kashiwazaki Kariwa Nuclear Power Plant

SD: Self-Defense Forces PF: Public Fire Station

(1) Status after Tsunami (Mar 11 around 15:40)







#2 #1

Water storage tank

R/B

R/B

T/B

Water supply inlet

Reverse cleaning valve pit

No seawater

Water supply inlet

Reverse cleaning valve pit

No seawater

No seawater

Breakdown due to tsunami

tanks carried by tsunami

blocked the way

Outline

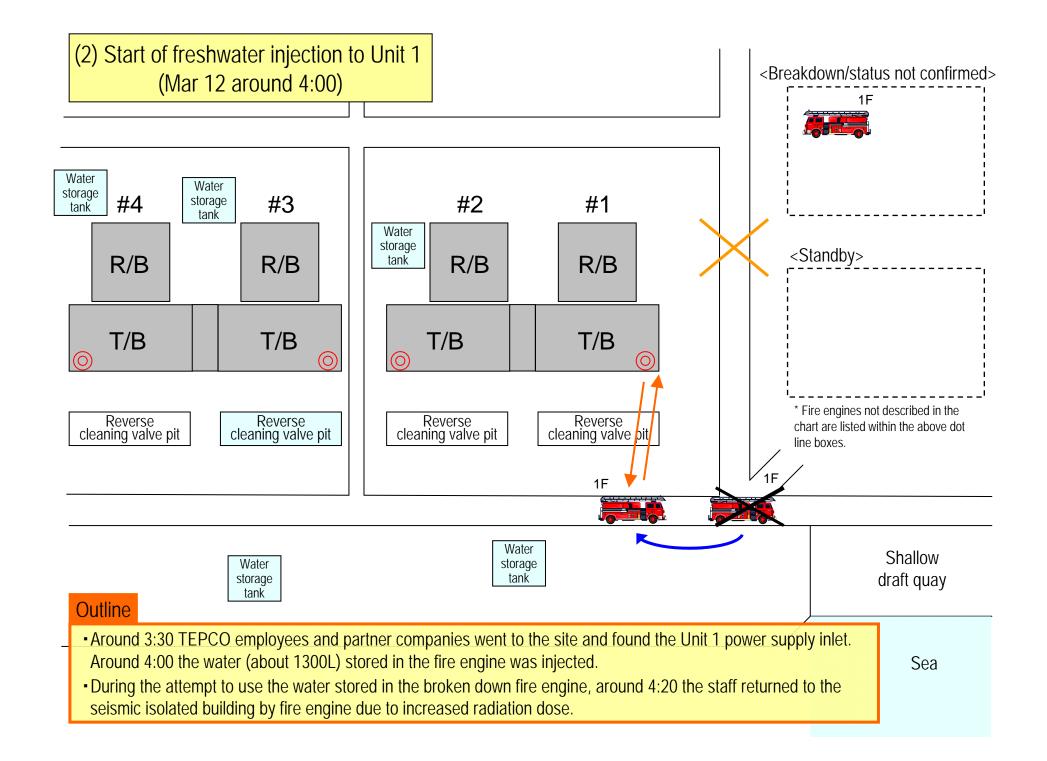
Water storage tank Water storage tank

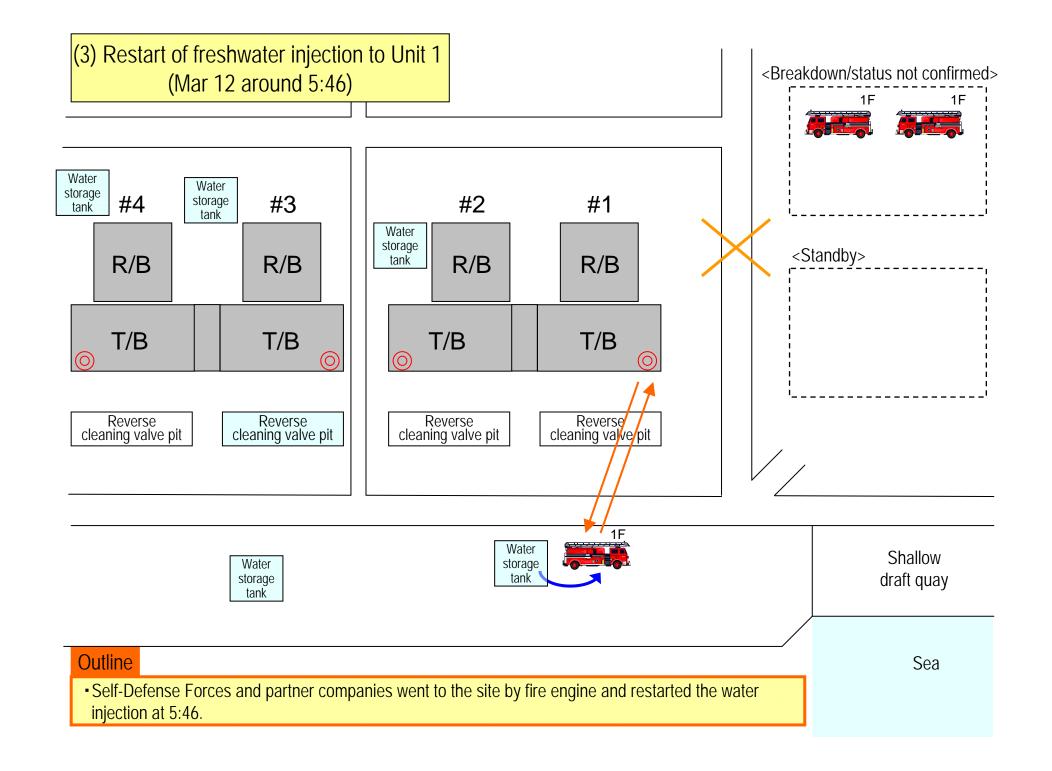
Shallow draft quay

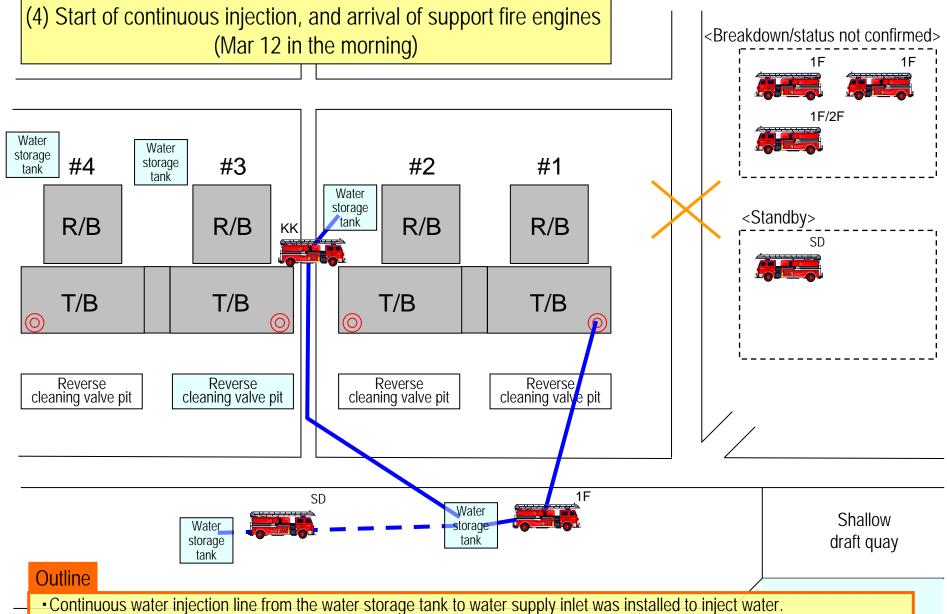
Unit 5/6

- Status of 3 fire engines deployed at the power plant:
  - •One fire engine deployed in the fire engine house on a hill was usable.
  - One fire engine deployed near the safeguard headquarters on the Units 1-4 side was broken down due to tsunami.
- One fire engine deployed on the Units 5/6 side was not usable because the passage to the Units 5/6 side was interrupted due to road damage and debris carried by tsunami, and there was information that the fire engine was swept up by tsunami.

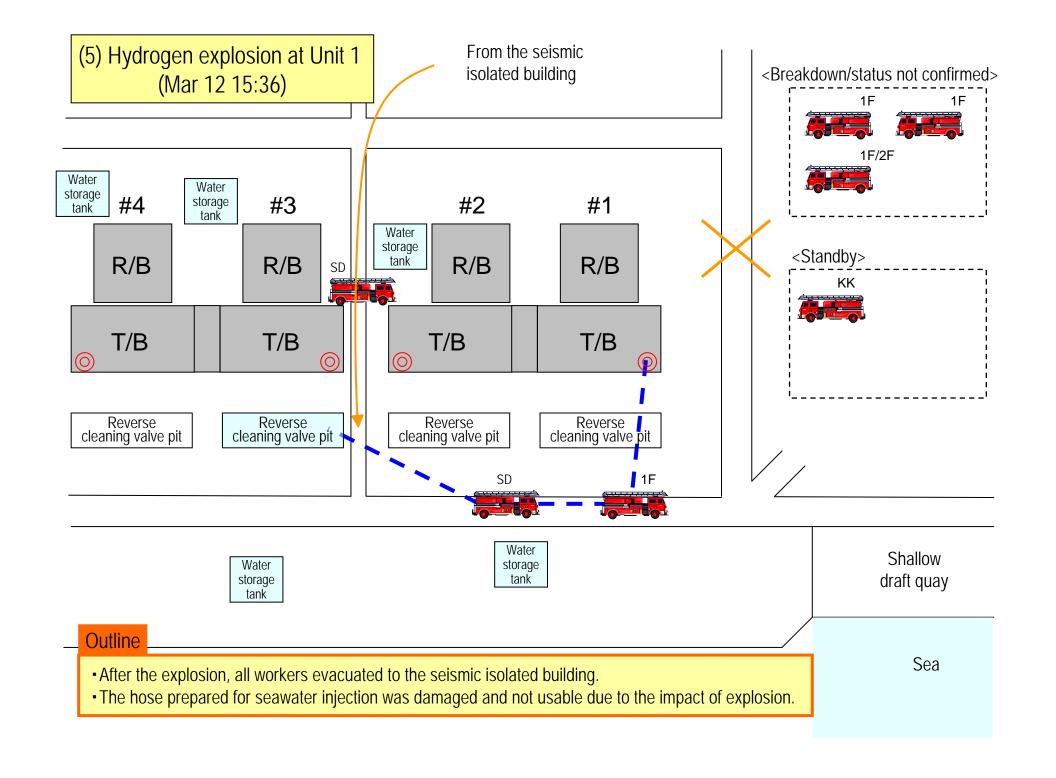
Sea

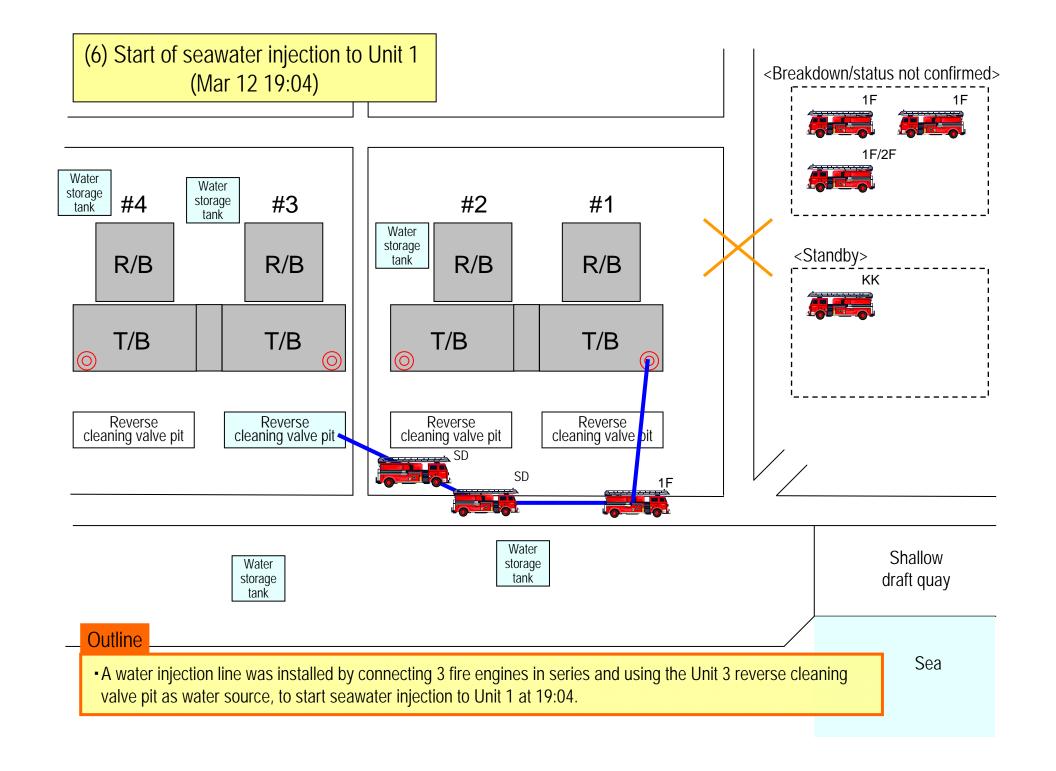


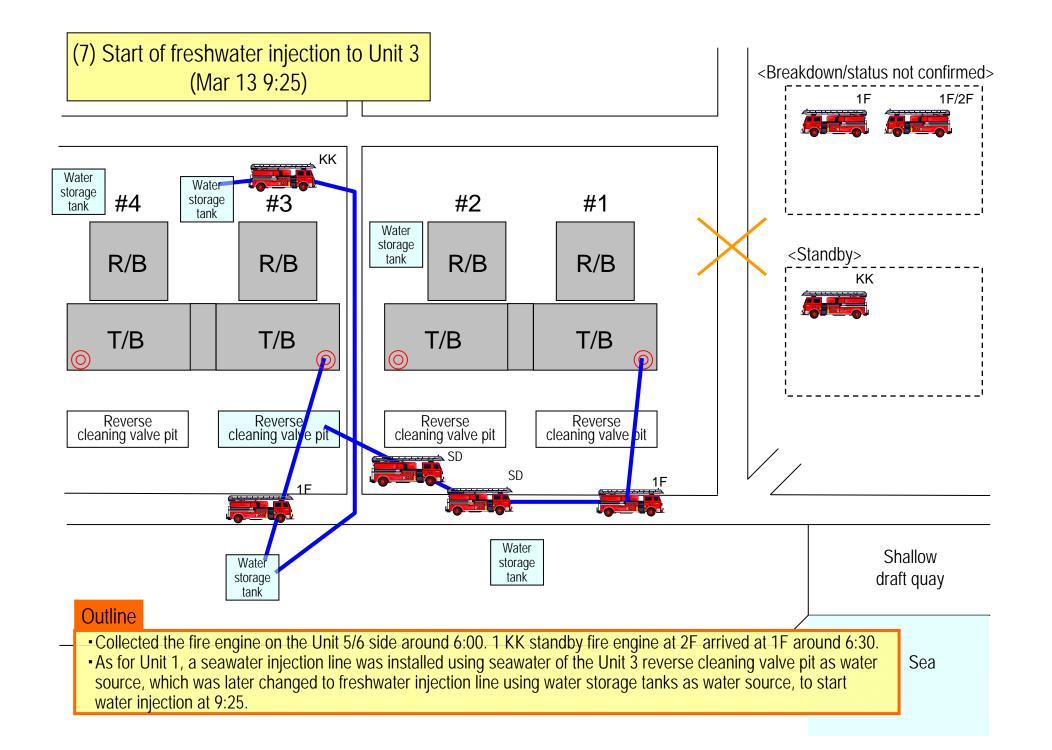


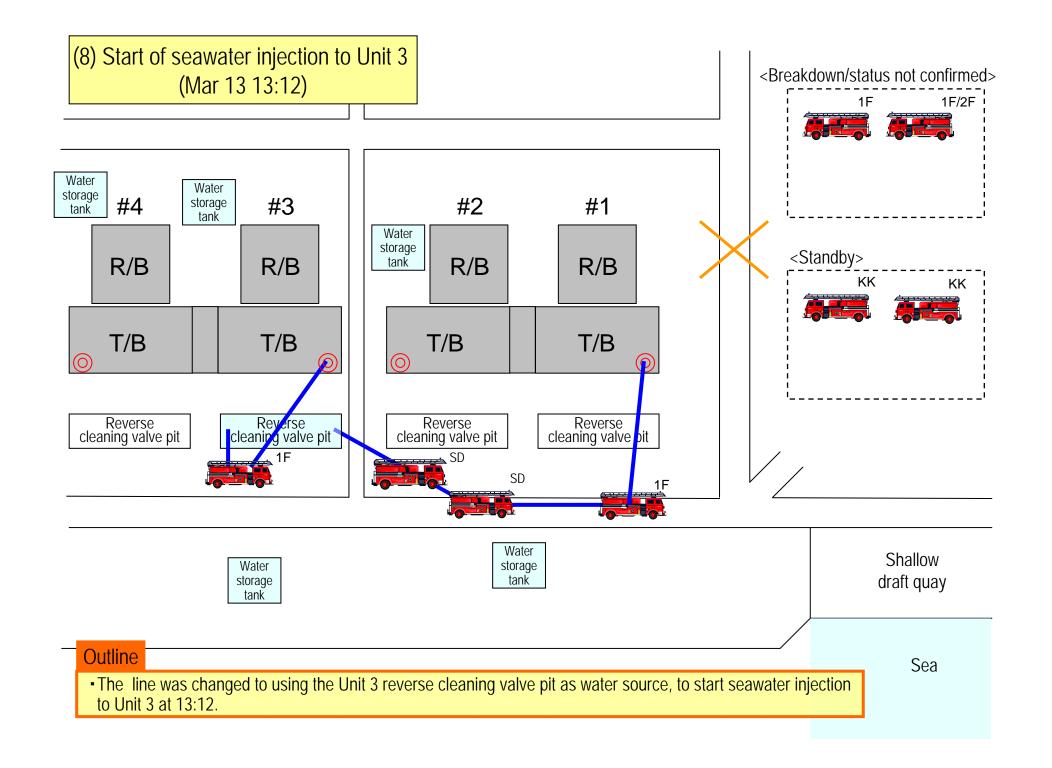


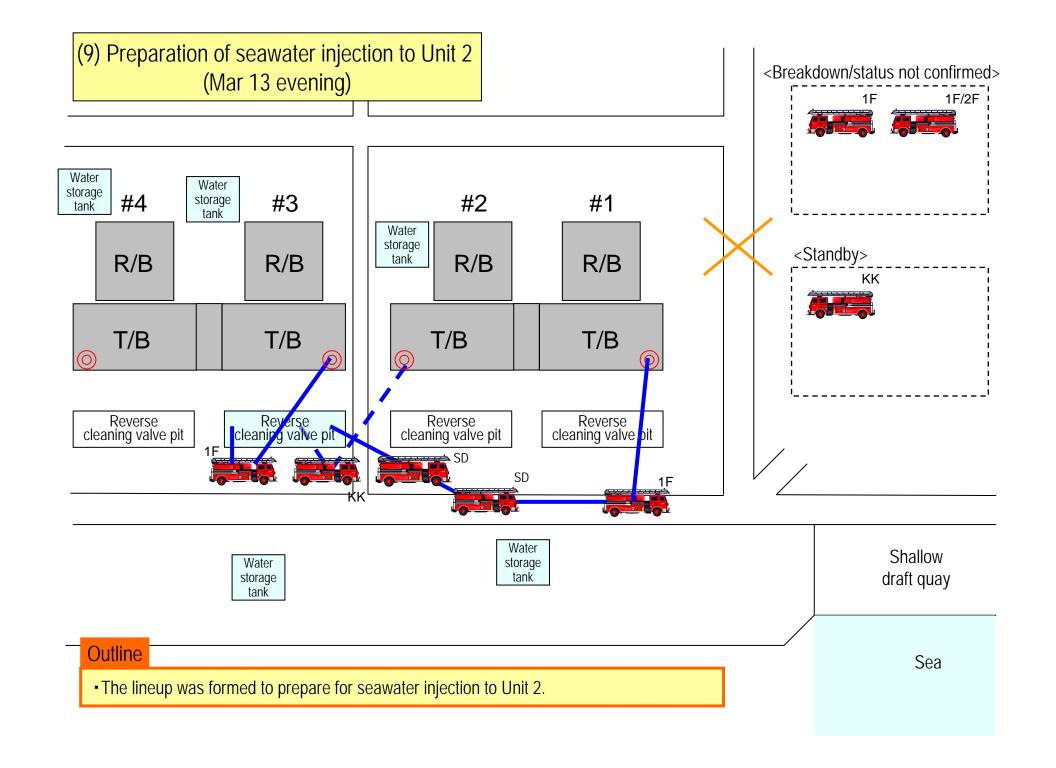
- Continuous water injection line from the water storage tank to water supply inlet was installed to inject water.
   KK arrived at the site around 10:30, and the fire engine of Self-Defense Forces arrived before noon. Water was supplied from water storage tanks around the site to the water storage tanks to the Unit 1 side.
- •In addition, 1 chemical fire engine shared by 1F and 2F was moved from 2F. (The fire engine was not used actually because of its old model.)

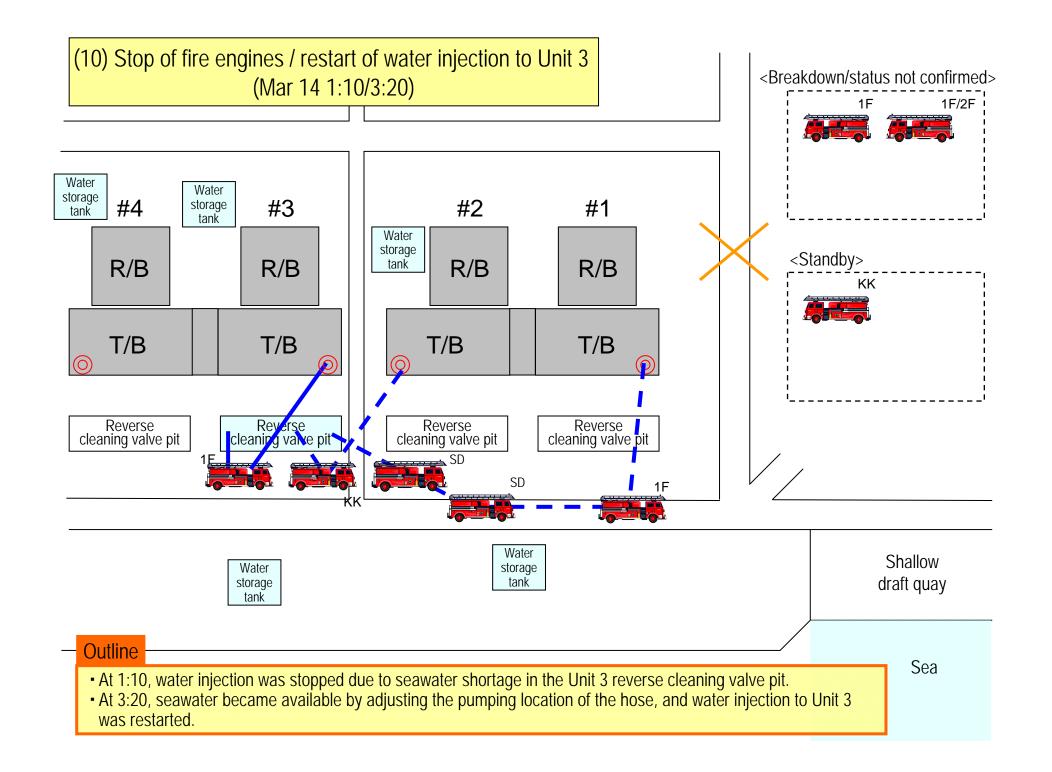


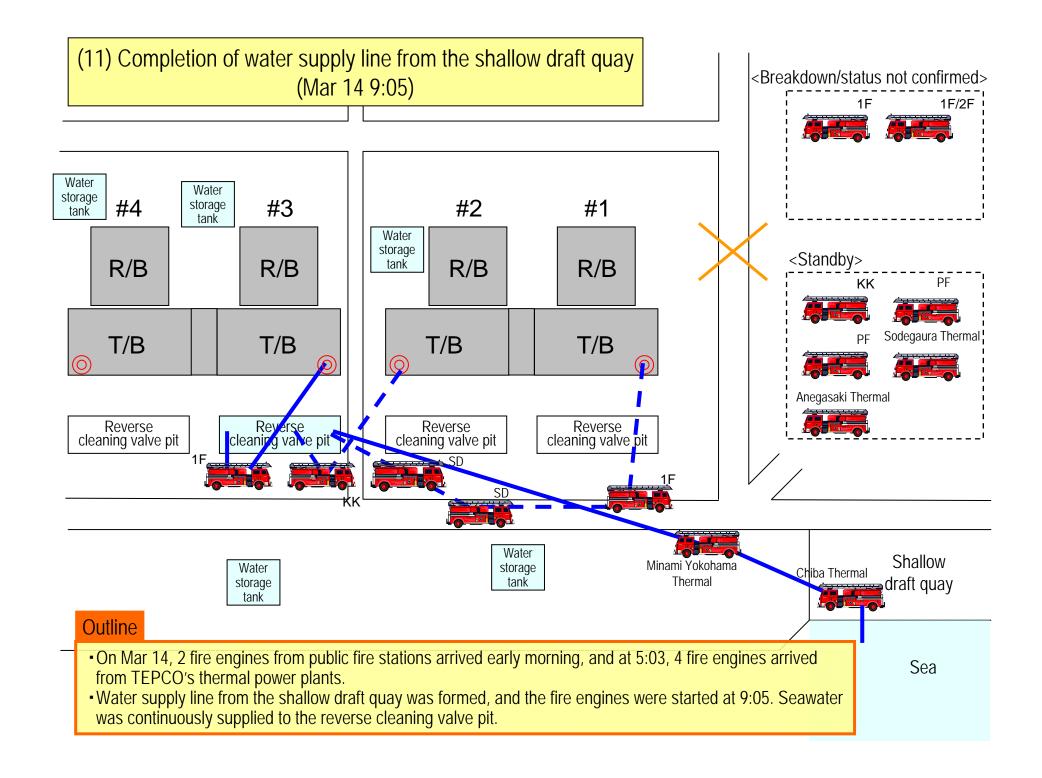


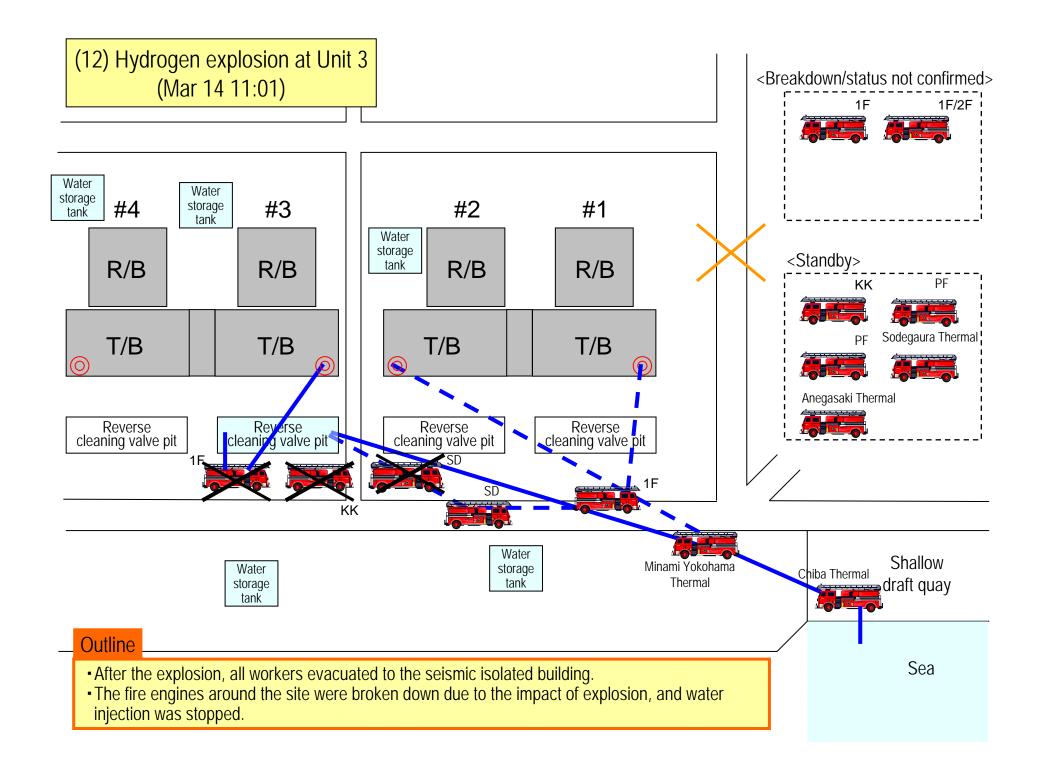


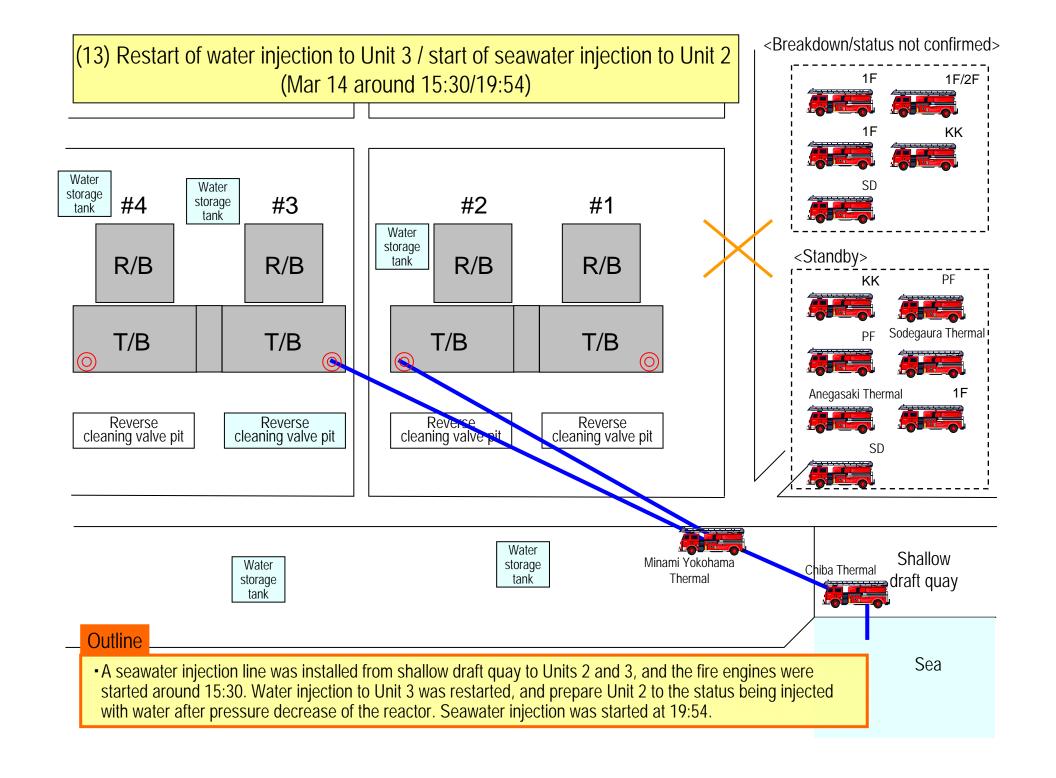




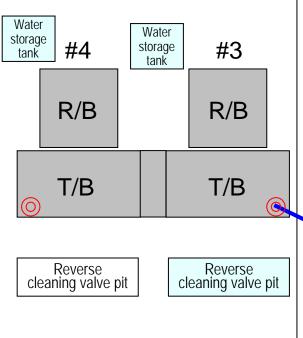


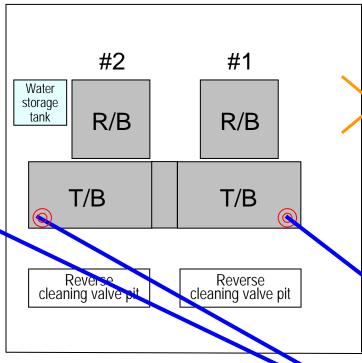


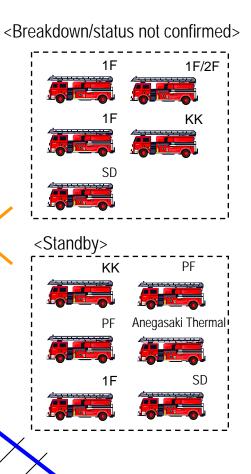




(14) Restart of water injection to Unit 1
(Mar 14 around 20:00)





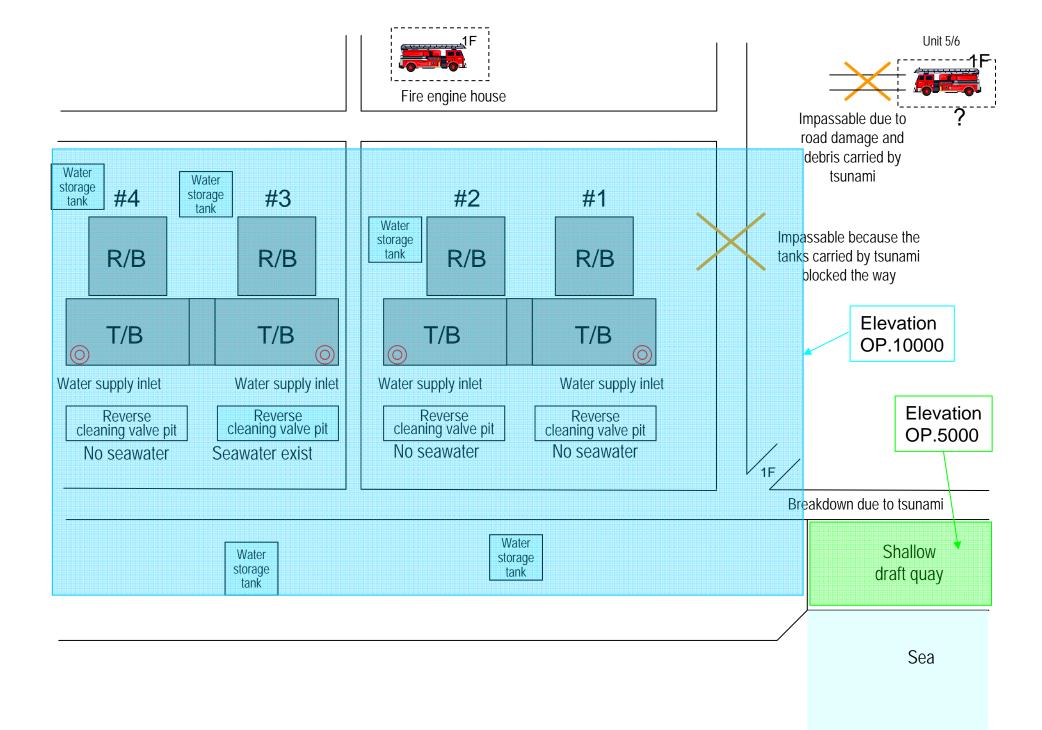


Water storage tank Water storage tank Minami Yokohama Thermal Shallow draft quay Sodegaura Thermal Therma

Outline

Around 20:00, restart of water injection to Unit 1 was confirmed.

## **Additional Information**



#### [Fire Engine Class]

1F(Fukushima Daiichi Nuclear Power Plant): A2 Class

SD(Self-Defense Forces): A2 Class

KK(Kashiwazaki Kariwa Nuclear Power Plant): A2 Class

Minami Yokohama Thermal Power Plant: A1 Class

Chiba Thermal Power Plant : A1 Class

Sodegaura Thermal Power Plant : A1 Class

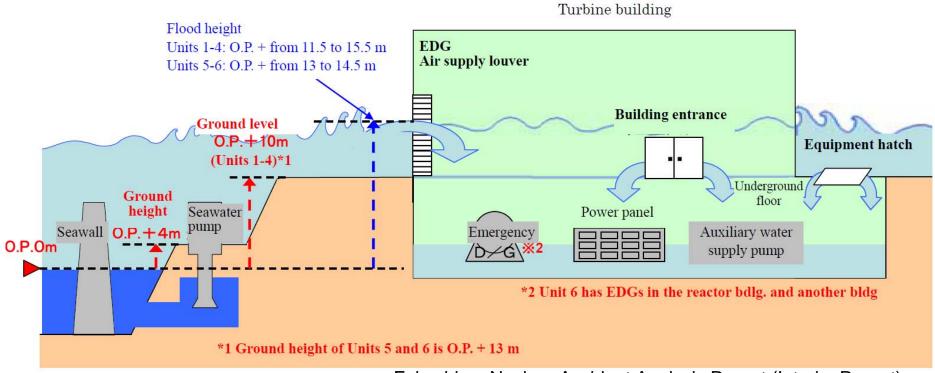
#### [A1 Class Design Specification]

	Specified discharge pressure	Specified discharge rate
Normal discharge	0.85 MPa	2.8 m³/min
High pressure discharge	1.4 MPa	2.0 m³/min

#### [A2 Class Design Specification]

	Specified discharge pressure	Specified discharge rate
Normal discharge	0.85 MPa	2.0 m³/min
High pressure discharge	1.4 MPa	1.4 m³/min

### **Vertical Section**



Fukushima Nuclear Accident Analysis Report (Interim Report) which was released on Dec. 2, 2011