- TEPCO is determined to become "a nuclear operator that continuously improves safety to unparalleled levels by enhancing safety levels on a daily basis while always keeping the Fukushima Nuclear Accident in mind". To this end, the company has been moving forward with the Nuclear Safety Reform Plan since April 2013.
- TEPCO has sincerely dealt with the issues pointed out and suggestions given by the IAEA, WANO, and the Nuclear Reform Monitoring Committee, which is comprised of experts from Japan and overseas, in an effort to reach the highest level in the world.
 - Risk of water leakage has been significantly lowered due to completion of treatment of highly contaminated water stored in Fukushima Daiichi as well as progress in removal of contaminated water in segwater piping trenches.

Points of this report

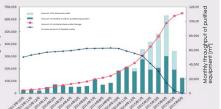
- Systematic disclosure of all data relating to radiation in Fukushima Daiichi is progressing. By the summer, all data will be disclosed without fail.
- In order to prevent human injury, we will strengthen and continue initiatives such as hazard simulation training for work supervisors and workers. We are also improving work team leader training.
 - Nuclear Safety reform shows solid progress, such as introduction of daily review of "10 features of sound nuclear safety culture" and utilization of operational experience (OE). On the other hand, we will try to enhance management observation (MO), which was identified as a weakness by third party (IAEA) reviews.

1. Status on safety measures of each site

Fukushima Daiichi

Significant reduction of leakage risk of contaminated water by completing the processing of high density contaminated water and making progress in filling the sea water piping trench.

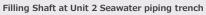
 Continued treatment of highly contaminated water using 7 different facilities including ALPS, and completed treatment on May 27 except for water remaining at the bottom of the tanks.



 Completed filling of Unit 2 sea water piping trench, and removed contaminated water from the trench



 Because the radioactive density of contaminated water in the trench is very high, removal therefore is a big step forward in reducing the risk of water leakage.



Continuous improvement of work environment attained by the reduction of radiation exposure of workers through decontamination, expansion of areas in which no full face masks are required, start services of a large rest house.

• Decontamination on the site progressing and increasing radiation monitoring. As a result, a full face mask is no longer required at 90% of the site, which alleviated the hardship of the workers



• Adjacent to the entrance control facility, a nine-storey large rest house which accommodates 1200 people started services from June 1.

More initiatives to secure personal safety

- "Industrial safety training" has started for supervisor and workers, with the purpose of looking for potential hazards in the work place and preventing accidents.
- We will improve the plan to gather and analyze incidents through MO for more effective application.

Attach a main rope and clip



Mandatory use of safety belts in high places

Fukushima Daini

Support Fukushima Daiichi decommissioning from various angles

- Utilize low-level nuclear waste transportation containers for Fukushima Daini to store rubble produced at Fukushima Daiichi
- Support Fukushima Daiichi decommissioning by temporary storage of contaminated water tanks, production of seawall blocks, laundry of special underwear for controlled area.

Industrial safety training facility (such as assembly of scaffolding)

was set up on site and all supervisors received the industrial safety



Attached safety belt training

Kashiwazaki Kariwa

training.

Fully equipped facilities to further improve plant safety

Completion of industrial safety training to supervisors

 Facilities were upgraded to respond to various risks and prevent severe accidents, such as upgrading high-pressure alternative water feeding system, alleviating impact of internal flooding by installing discharge pumps around improvement equipment, prevention of external fire spread.



High-Pressure Alternative Cooling System (upgraded water injection function) installation

Third party review by the International organization (IAEA)

- IAEA's OSART* mission visited Kashiwazaki Kariwa from June 29 to July 13 to review nuclear safety culture and organization management for world's best nuclear power
- plant.Suggestions from Reviewers
 - ✓ Need to improve MO to make it effective
 - ✓ Improve procedure for additional safety measures facilities

Make preparations and promptly implement improvements.





Opening meeting

Checking safety measures facilities (Alternate heat exchanger car)

* IAEA dispatched Operational Safety Review Team: Operational Safety Review Team

on the safety harnesses

2. Status of the Nuclear Safety Reform Plan (management side)

The purpose and

interrelationships of various

Safety". It was made for

Nuclear Safety Reform.

81.6 points (Overall Nuclear Division)

communications without being stuck in its own is

Understanding the messages and implementation

94.3 points (Nuclear Leader)

of management observation (MO) are

Basically favorable, but the interdivisional

activities are explained in the booklet "To Improve Nuclear

executives to implement the

- Based on IAEA's review of our system operations and management including the Nuclear Safety Reform Plan, we are accelerating these improvements under the leadership of top management for further advancement. (Measure 1)
- We will tackle and solve issues that arise in management such as a high accuracy of disclosing of all Fukushima Daiichi radioactivity data. (Measure 4)

Safety Awareness

Measure 1: Management reforms

We have implemented individual daily observations based on "10 Features of Sound Nuclear Safety Culture" for CEO, General Manager of Nuclear Power & Regional Relations Division and the Fukushima Daiichi Decontamination & Decommissioning Company President. It is now part of the daily routine. (executing rate : over 90%)



Using the booklet, "To improve Nuclear Safety"

- Management and nuclear leaders hold dialogues with their employees to deliver their expectations and thoughts through various channels.
- FY2015 Q1 Awards given to employees who take initiatives.

KPI self assessment on

nuclear safety

KPI on employee

delivery of safety

Leaders

understanding and

messages from Nuclear



- Nuclear Safety Oversight Office (NSOO) was reorganized as the entity which is now directly under the President (April 1, 2015). It will be directly involved in the nuclear safety decision making with observations and advice based on experience in the field.
- In order to prevent serious injuries at Fukushima Daijichi, education has been strengthened for working group leaders who lead the worksites, under the instruction and advice from NSOO.

the issue.

50.0 points

insufficient

Technical Skills

Measure 3: Effective defense in depth proposals

- We held the First Improving Safety Proposal Competition 2015 and received 120 applicants.
- We are implementing excellent suggestions but speed is the issue.

Deploying wiring diagram of seawater electric machinery for emergency responses (Fukushima Daiichi)

Measure 5: Reinforcing emergency responses at nuclear power plant and headquarters

In case the Main Anti-Earthquake Building is inaccessible, we conducted a drill in which the Emergency Response Headquarters are relocated to Unit 3 of Kashiwazaki Kariwa



Emergency Response Headquarters was relocated from Anti-Earthquake Building to Unit 3 reactor building (Kashiwazaki Kariwa)

Firefighters of each plant have participated in Maritime Disaster Prevention Center's firefighting training to gain experiences.

The business plans use Performance Objectives

and Criteria (PO&C), the world's best standards

Measure 6: Improving emergency response and onsite response

77.5 points

performance level.

(PDCA) cycle.

[Evaluation in FY2015 Q2]

- At Fukushima Daini, we held a technology and skills competition to check the proficiency of our direct operational skills between June 11 and 25.
- We invited the Director of Plant Engineering from Palo Verde Nuclear Power Station (USA) to learn their best practice to develop system engineers and exchanged views.





Communication Competence

Measure 4: Enriched risk communication activities

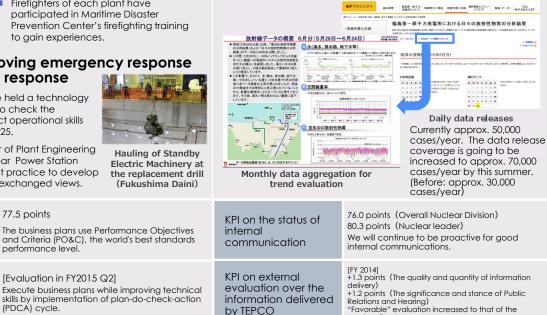
We continue to provide easy to understand information through various tools and opportunities such as plant tours and video production.





Video released "Robots in the Primary A plant tour for Tokyo-Containment Vessel' based embassy staff (Fukushima Daiichi)

- Based upon our policy that we disclose all the radiation data, we have been releasing data as "Daily analysis results on radioactive
 - material" since April 30. We established a manager of data administration to conduct
 - checks on a daily basis. The data management was improved by introducing systematic monitoring of disclosure status with accuracy.
 - We will systemize manual labor to improve accuracy. (Scheduled for this summer)



previous fiscal year.



firefighting training

KPI on drawing up

business plans to

improve technical

skills

KPI on the

performance

business plans

monitoring of the

General Manager of Nuclear Power & Regional Relations **Division at Awards Ceremony**

Large-scale