

Application No. FDEC-R4-23

April 28, 2022

Nuclear Regulatory Authority

1-1-3 Uchisaiwai-cho, Chiyoda-ku, Tokyo
Tokyo Electric Power Company Holdings Inc.
President Tomoaki Kobayakawa

**Partial Revision of the Application for approval to amend the
Implementation Plan for Fukushima Daiichi Nuclear Power Station as
Specified Nuclear Facility**

TEPCO partially revise Application for approval to amend the Implementation Plan for Fukushima Daiichi Nuclear Power Station as Specified Nuclear Facility, which submitted on Dec. 21, 2021 (Application No. FDEC-R3-175), as per the attached document.

END

Regard to the "Implementation Plan for Fukushima Daiichi Nuclear Power Station as Specified Nuclear Facility" and the "Annexes to the Implementation Plan for Fukushima Daiichi Nuclear Power Station as Specified Nuclear Facility," the following sections shall be attached.

The amended part, the reason for the amendment, and the contents of the amendment shall be as follows:

○Implementation Plan for Fukushima Daiichi Nuclear Power Station as Specified Nuclear Facility

The following amendments are made to installation of the ALPS treated water dilution/discharge facilities and the related facility, and discharge of ALPS treated water into the sea, according to progress of the review.

Concurrently, another approved Implementation Plan is reflected.

Table of Contents

- New description of operation management of the ALPS treated water dilution/discharge facilities

I Overall Process and Risk Assessment of Specified Nuclear Facility

2 Risk Assessment

2.1 Concept of Risk Assessment

Body

- Optimization of description

2.3 Major Risks at the Specified Nuclear Facility

2.3.7 Radioactive Waste

Body

- Addition of risk reduction measures along with discharge of ALPS treated water into the sea

2.4 Future Risk Reduction Measures of Specified Nuclear Facility

Body

- Addition of risk reduction measures regarding “Medium-Term Risk Reduction Target Map for TEPCO Fukushima Daiichi NPS”
- Addition of overall concept on discharge of ALPS treated water into the sea

Attachment-1

- Revision on the “Risk reduction measures to be implemented and appropriateness” and Updates
- Addition of risk reduction measures regarding discharge of ALPS treated water into

the sea

II Design and Equipment of the Specified Nuclear Facility

1 Items to be Considered about Design and Equipment

1.9 Treatment, Storage and Management of Radioactive Liquid Waste

Body

- Addition of management, etc. of radioactive liquid waste in accordance with the discharge of ALPS treated water into the sea

1.14 Design Considerations

Body

- Reflection of the design considerations for earthquake in accordance with “Point of view of seismic motion and its application for seismic design of TEPCO Fukushima Daiichi NPS”
- Addition of design consideration for impact of drifted ships
- Optimization of description

Attachment-1

- New description of impact assessment for collision of ships

2 Structure and Equipment of the Specified Nuclear Facility and Construction Plan

2.5 Contaminated water treatment facilities etc.

Body

- Optimization of description

Attachment-12

- Optimization of description

2.16 Radioactive Liquid Waste Treatment Facilities and Related Facilities

2.16.1 Advance Liquid Processing System

Body

- Addition of main pipe specifications in accordance with the installation of ALPS treated water dilution/discharge facilities and related facility

Attachment-2

- Modification of the schematic diagram of pipes in accordance with the installation of ALPS treated water dilution/discharge facilities and related facility

Attachment-9

- Addition of confirmation items of advance liquid processing system

2.16.2 Additional Advance Liquid Processing System

Body

- Addition of main pipe specifications in accordance with the installation of ALPS treated water dilution/discharge facilities and related facility
- Optimization of description

Attachment-4

- Modification of the schematic diagram of pipes in accordance with the installation of ALPS treated water dilution/discharge facilities and related facility

Attachment-9

- Addition of confirmation items of additional advance liquid processing system

2.16.3 High-Performance Advance Liquid Processing System

Body

- Addition of main pipe specifications in accordance with the installation of ALPS treated water dilution/discharge facilities and related facility
- Optimization of description

Attachment-4

- Modification of the schematic diagram of pipes in accordance with the installation of ALPS treated water dilution/discharge facilities and related facility

Attachment-8

- Addition of confirmation items of high-performance advance liquid processing system

2.50 ALPS Treated Water Dilution/Discharge Facilities and the Related Facility

Body

- Addition of basic design of ALPS treated water dilution/discharge facilities and related facility
- Revision and deletion of discharge guide in accordance with the fixed design for discharge vertical shaft
- Optimization of description

Attachment-1

- Revision in accordance with the fixed design for discharge vertical shaft

Attachment-2

- Addition of detailed safety securement measures regarding ALPS treated water dilution/discharge facilities and related facility
- Optimization of description

Attachment-3

- Revision in accordance with the fixed design for seawater pipe header
- Optimization of description

Attachment-4

- Revision of items to be checked for ALPS treated water dilution/discharge facilities and related facility
- Revision and deletion of discharge guide in accordance with the fixed design for discharge vertical shaft
- Optimization of description

Attachment-5

- Addition about design for discharge vertical shaft (upper-stream storage)
- Optimization of description

Attachment-6

- No amendment

Attachment-7

- New description of items for consideration on testability

III Safety of Specified Nuclear Facility

Part 2 Safety Measures on Unit 5 and 6

Chapter 6 Radioactive Waste Management

Article 88

- Revision in accordance with discharge of ALPS treated water into the sea

Supplementary Provisions

- Revision in accordance with discharge of ALPS treated water into the sea

Part 3 (Supplementary Explanation Regarding Safety)

1 Supplementary Explanation regarding Operation Management

1.9 Operation Management of the ALPS Treated Water Dilution/Discharge Facilities

- New description of operation management of the ALPS treated water dilution/discharge facilities

2 Supplementary Explanation regarding Management of Radioactive Waste, etc.

2.1 Management of Radioactive Waste, etc.

2.1.2 Management of Radioactive Liquid Waste, etc.

- Addition of the concept of analysis method, system, selection of target nuclides for measurement and evaluation in relation to ALPS treated water

2.2 Dose Assessment

2.2.3 Dose Assessment by Radioactive Liquid Waste, etc.

- Addition in accordance with discharge of ALPS treated water into the sea

2.2.6 Action in response to the "Basic Policy on handling of the ALPS treated water"

- Deleted to be listed in reference material

3 Supplementary Explanation regarding Radiation Management

3.1 Radiation Protection and Management

3.1.4 Reduction of Radioactive Materials in Seawater, Seabed Sediment, Groundwater and Drainage Channels in Ports and Harbors

- Addition of measures to reduce radioactive materials in seawater intake in accordance with the installation of ALPS treated water dilution/discharge facilities and the related facility

VI Promotion for Understanding of Implementation of the Implementation Plan Body

- Addition of D&D Information & Planning Management Office

○Annexes to the Implementation Plan for Fukushima Daiichi Nuclear Power Station as Specified Nuclear Facility

Table of Contents

- Reflection of another approved Implementation Plan

Annex 27 Supplementary Explanation of ALPS Treated Water Dilution/Discharge Facilities

I Structural Strength of ALPS Treated Water Dilution/Discharge Facilities

- Addition of evaluation of seawater pipe header
- Optimization of description

II Tolerance of nominal values for ALPS Treated Water Dilution/Discharge Facilities

- Addition of tolerance of nominal values for seawater pipe header
- Optimization of description

○Reference Material

- Newly description of action in response to Basic Policy of government
- Change radiological impact assessment from III Part3 2.2.6 to reference material and revision of assessment results.

End

This document is partially revised on May 13, 2022

Please refer the link shown in bellow

https://www.tepco.co.jp/en/hd/newsroom/press/archives/2022/20220513_01.html