

# Analysis Results of ALPS Treated Water Sampled from the Measurement/Confirmation Facility at the Fukushima Daiichi Nuclear Power Station

- Following the Japanese government's Basic Policy announced in April 2021, TEPCO had been reviewed the details of the design and operation of ALPS treated water dilution/discharge facility and related facilities. In December 2021, TEPCO submitted the "Application Documents for Approval to Amend the Implementation Plan for Fukushima Daiichi Nuclear Power Station Specified Nuclear Facility" for the basic design of ALPS treated water dilution/discharge facility and related facilities to the Nuclear Regulation Authority (NRA), and on July 22, 2022, these application documents were approved by the NRA.
- Construction on ALPS treated water dilution/discharge facility began on August 4, 2022, and pre-use inspections began on January 16, 2023. On March 15, we received a certificate of completion for the pre-use inspections of measurement/confirmation facility from the Nuclear Regulation Authority.
- In light of this, we began operation of circulation/agitation equipment in System B on March 17 in order to make the concentrations of radioactive substances in tank groups and measurement/confirmation tanks homogeneous. After the tanks were agitated/circulated for more than the amount of time required to make the water in the tank group homogeneous, samples were taken on March 27.
- Going forward, we will sample/analyze specimens to ensure that the ALPS treated water meets discharge criteria prior to dilution/discharge.

< Announced on May 27 (in Japanese only) >

- The analysis results of sampled specimens have confirmed that discharge criteria are met.
  - Nuclides to be measured and assessed (29 nuclides):  
the sum of the ratios of the concentration of each radionuclide to the regulatory concentration: 0.28 (confirmed to be less than 1)
  - Tritium: 140,000Bq/liter (confirmed to be less than 1 million Bq/L)
  - Nuclides voluntarily checked to ensure that they are not significantly present (39 nuclides):  
no significant concentrations found of any of the nuclides
  - General water quality (voluntary check to confirm that there are no unusual water quality) (44 criteria): Criteria values are met
- Measurements taken by external agencies\* (Kaken) show the same results and have confirmed that discharge criteria are met.

\*Nuclides to be measured and assessed (29 nuclides), tritium and nuclides voluntarily checked to ensure that they are not significantly present (39 nuclides) were measured.

# (Reference) Addition of the page "Measurement/Confirmation Facility Conditions" to Treated Water Portal Site

- Today, a new page for Measurement/Confirmation Facility Conditions was added to the Treated Water Portal Site. (At current time this page is only in Japanese, but an English version will be released as soon as preparations have been completed)
- The aforementioned page uses graphics and graphs to post analysis results

## ■ Treated Water Portal Site Measurement/Confirmation Facility Conditions (Currently only in Japanese)

<https://www.tepco.co.jp/decommission/progress/watertreatment/measurementfacility>



処理水ポータルサイト  
INFORMATION PORTAL SITE

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リンク集

ENGLISH 英語  
中文(简体) 中文(简体/台湾)  
中文(繁体/香港)

### 測定・確認用設備の状況

測定・確認用設備は、タンク10基（合計容量約10,000m<sup>3</sup>）×3群に分け、それぞれ「受入」、「測定・確認」、「放出」の3工程をローテーションしながら運用します。  
（運用開始時は全てのタンクに水を受け入れ済。順次、測定・確認を行います。）

A群 測定・確認準備中  
B群 測定・確認  
C群 測定・確認準備中

### ALPS処理水の測定結果(2023年6月22日) ⇒ 放出基準を満足していることを確認しています

分析結果  
告示濃度比総和 0.28

トリチウム濃度 14万Bq/L  
100万Bq/L未満であることを確認しました。

トリチウム以外の放射性物質の濃度  
告示濃度比総和 0.28 < 規制基準 1

※自主的に有意に存在していないことを確認している核種は、全ての対象核種で有意に存在していないことを確認しました。

当社委託外部機関（化研）の測定結果  
▶トリチウムの濃度：14万Bq/L  
▶トリチウム以外の放射性物質の告示濃度比総和：0.28

● 第三者（日本原子力研究開発機構）の分析結果はこちら

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