

Establishment of ALPS Treated Water Program Department

July 30, 2021

TEPCO

Tokyo Electric Power Company Holdings, Inc.

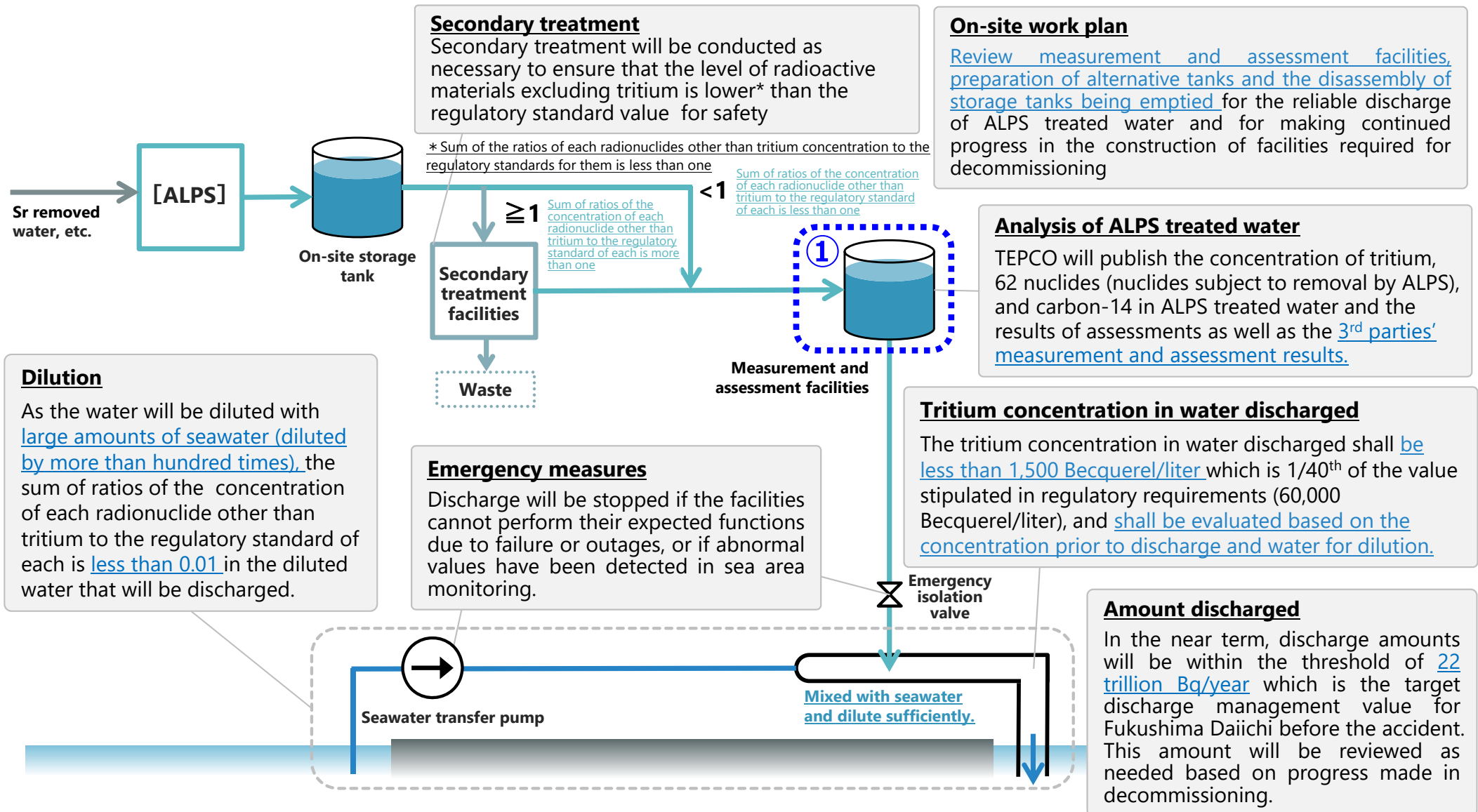
1. Introduction

- In reviewing the discharge of ALPS treated water into the sea, ALPS Treated Water Program Department shall be established as an organization for realizing the basic government's policy presented in April 13 (slides 2 and 3).

Scope of administration for the newly established organization

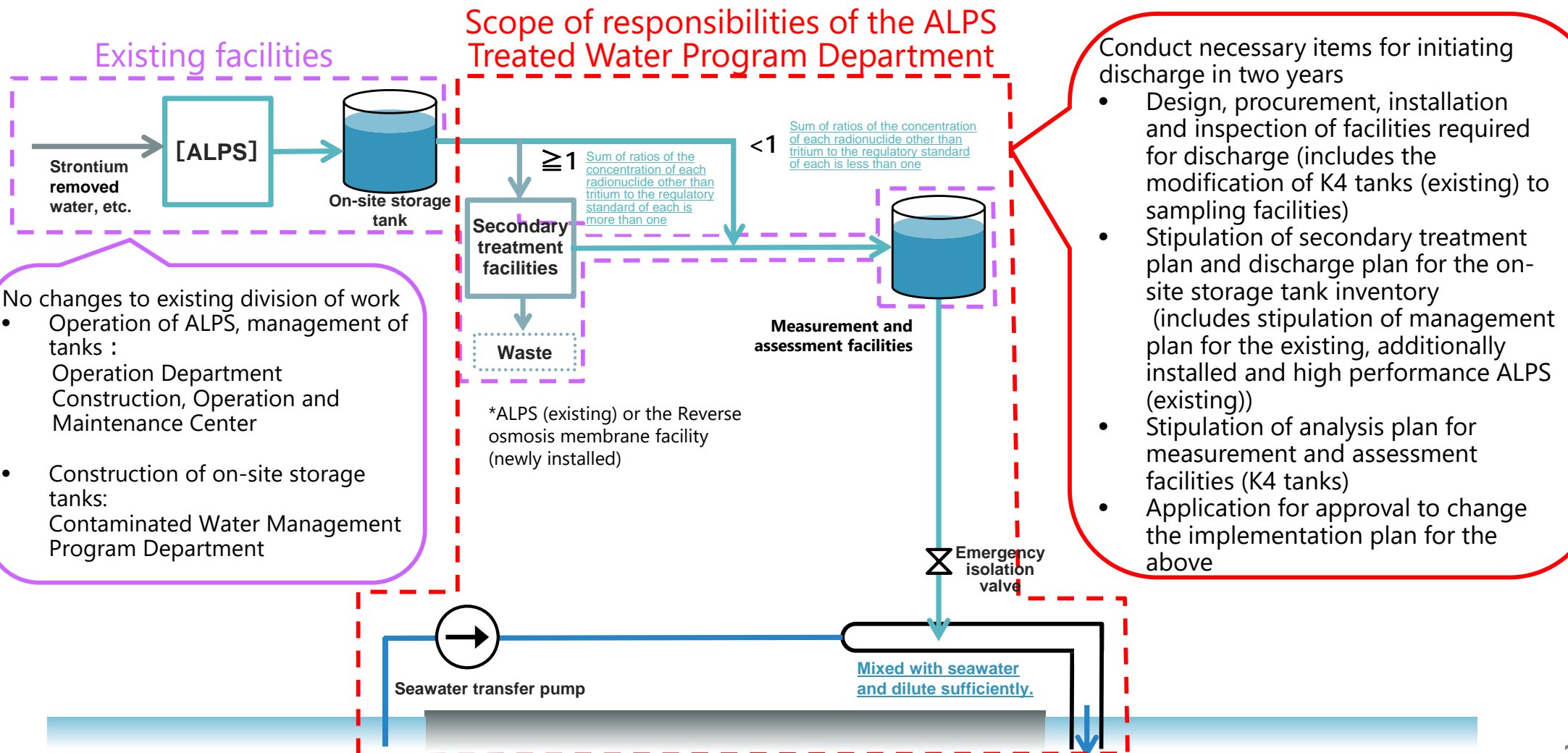
Key points in the basic government policy	Key items to be implemented by TEPCO	
	Prior to discharge into the sea	After initiating discharge into the sea
● Confirm any radioactive material in the ALPS treated water prior to discharge	➤ Install facilities for measuring and assessing the radioactive concentration of tritium, 62 nuclides (not removed by ALPS) and carbon-14 prior to dilution and discharge; and stipulate its operating method	➤ Implement and manage in accordance with stipulated operating method
● The standard for tritium concentration shall be equivalent to the target value for the discharge concentration in the sub drain at Fukushima Daiichi NPS (below 1,500Bq/liter)	➤ Install facilities for discharge and stipulate its operating method	➤ Implement and manage in accordance with stipulated operating method
● The annual total of tritium shall be below 22 trillion Bq annually	➤ Stipulate discharge plan for the ALPS treated water	➤ Implement and manage in accordance with plan
● Strengthen and expand monitoring for tritium both prior to and after initiating discharge	➤ Stipulate sea area monitoring plan	➤ Implement and record in accordance with plan
● Assess the potential impact on the marine environment	➤ Assess the impact of radiation on humans and the environment	➤ Conduct assessment in accordance with the sea area monitoring results

[Reference] Overview of Necessary Facilities for Discharge of ALPS Treated Water



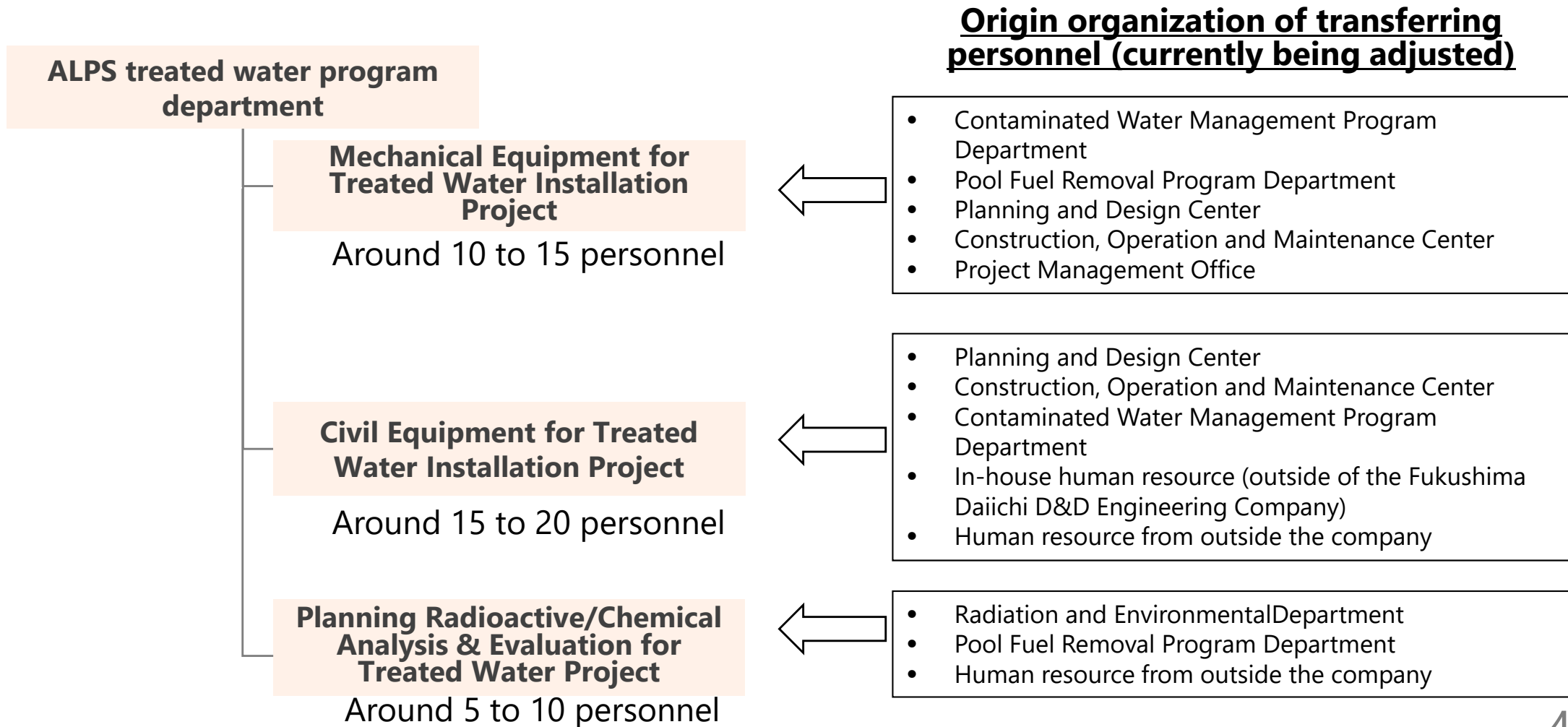
2. Establishment of facilities and organization necessary for discharge into the sea

- The facilities required for discharge into the sea, while accounting for government policy, are assumed as presented in the figure below.
- ALPS Treated Water Program Department shall be established with the primary goal of stipulating facilities and plans, and for the objective of clarifying organizational accountability for handling newly installed facilities and realizing the initiation of discharge into the sea in two years in accordance with government policy.



3. Newly established project groups

- Three new project groups shall be established for each area in the ALPS Treated Water Program Department
- The total number of personnel for the subject department is assumed to be around 30 to 40 personnel (including personnel with multiple posts) (currently being adjusted)
- As for the organization where the transferring personnel is coming from, prioritization of work and further organizational re-balancing will be reviewed while considering future progress in work.



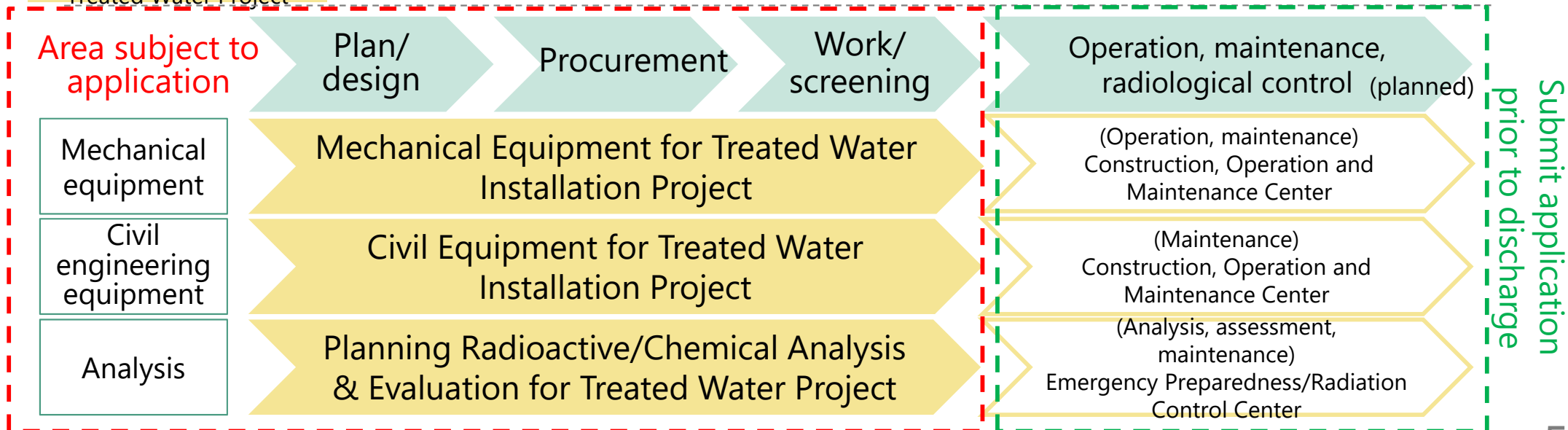
4. Division of work in the new project groups

- Key work of each project group are as presented in the table below.
- An application for the administrative system to be implemented when discharging ALPS treated water shall be submitted prior to initiating discharge (refer to next slide).

Newly established project group

Key work

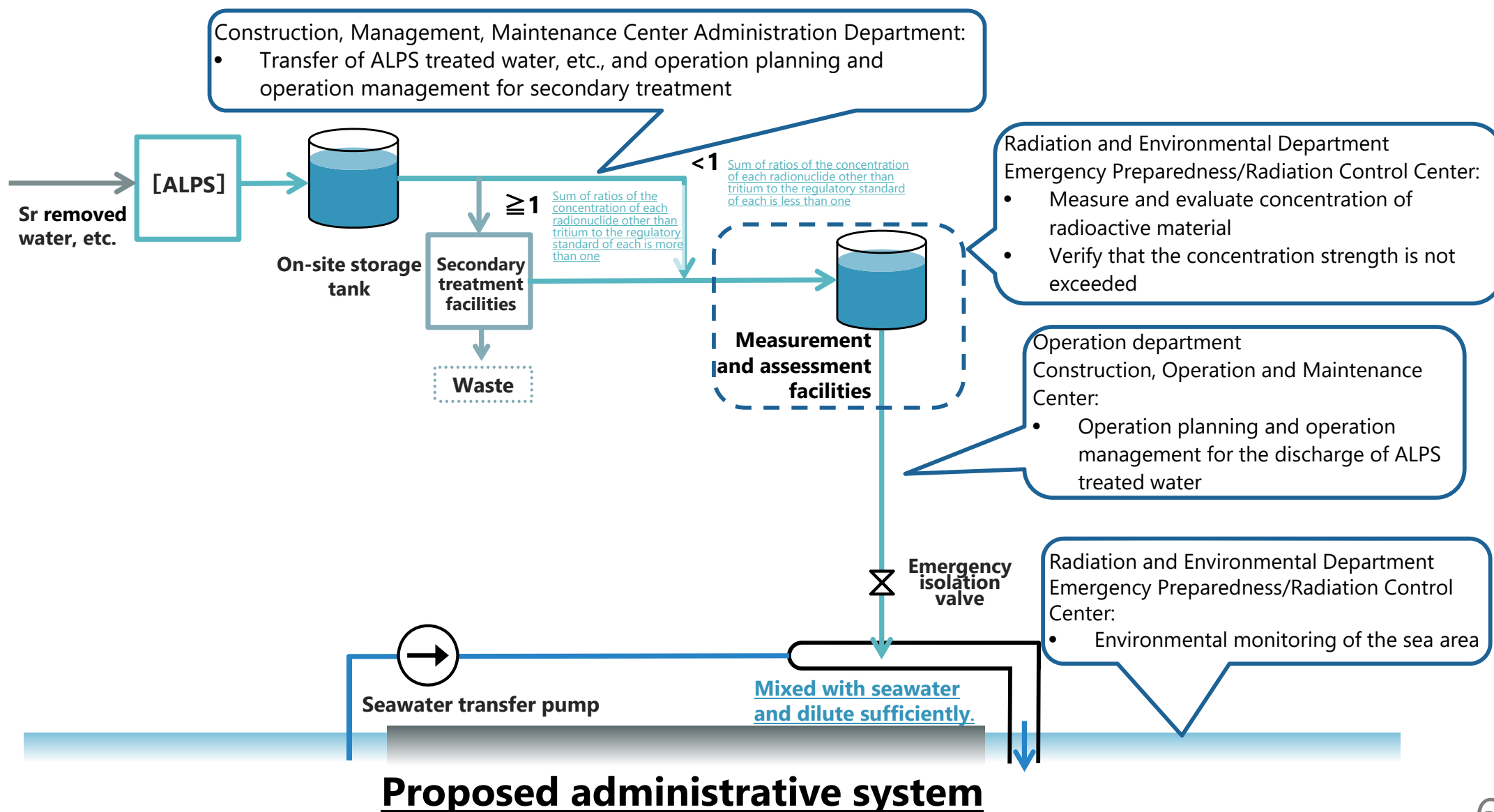
Mechanical Equipment for Treated Water Installation Project	<ul style="list-style-type: none"> • Design, procurement, installation and inspection of mechanical and electric equipment of the facility for discharge • Application for approval to change the implementation plan for the above • Removal of existing facilities • Stipulate discharge plan for ALPS treated water, facility management plan (procedure, etc.) 	Review the optimization of the overall plan, status of progress and any occurring challenges within the program department to achieve the integrated management of the three project groups under the General Manager of ALPS Treated Water Program Department
Civil Equipment for Treated Water Installation Project	<ul style="list-style-type: none"> • Design, procurement, installation, inspection of civil engineering equipment of the facility for discharge • Application for approval to change the implementation plan for the above 	
Planning Radioactive/Chemical Analysis & Evaluation for Treated Water Project	<ul style="list-style-type: none"> • Stipulate ALPS treated water analysis plan for measuring and assessing equipment • Application for approval to change the implementation plan for the above 	



Submit application prior to discharge

[Reference] Proposed administrative system for the discharge of ALPS treated water

- Review the administrative system for the discharge of ALPS treated water while referring to the system implemented at the "sub-drain water treatment facility", and submit application prior to initiating discharge.



[Reference] Organization chart of the Fukushima Daiichi D&D Engineering Company

