Revision of the Mid-and-Long-Term Roadmap

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Cabinet Office, Government of Japan
1. Give priority to Risk Reduction
   Focus on Speed
   - Contaminated water management,
   - Fuel removal from SFP
   - Fuel debris removal
   - Solid radioactive wastes, Secondary waste generated from contaminated water treatment
   Focus on Risk Reduction
   - Deal with as soon as possible
   - Deal with safely, surely and carefully with adequate preparation
   - Deal with in a long-term
   Give priority sequence to actions in order to certainly reduce risks in a long-term, not only to focus on speed

2. Clarifying Milestones
   Clarifying Milestones in a few years, taking stakeholder’s opinions into account

3. Strengthen confidential relationship with the local stakeholders by maximizing disclosure, etc.
   Establishment of Fukushima Council for stakeholder communication (February, 2014)
   Further enhanced communication (International Forum on Strategy for the Decommissioning of F1, etc.)

4. Further reduction in workers’ exposure dose,
   Enhancement of Organization for Industrial Safety and Health Management

5. Reinforcement of Nuclear Damage Compensation and Decommissioning Facilitation Corporation (NDF), as the Control Tower of technical strategy for decommissioning
   Foundation of NDF (August, 2014)
   Total management of R&D,
   Association with wisdom from all over the world
## Clarification of Milestones

- Clarify the short-term targets (green) for higher priority measures, while keeping the general framework (blue).

### Overall

**Completion of decommissioning**

- Overall completion of decommissioning: 30 – 40 years

### Contaminated water management

- **Completion of treatment of stagnant water in buildings**
  - Minimizing the amount of increase of contaminated water and water inside the building, except cooling water

#### Removing

- **Additional effective dose rate at the site boundary < 1 mSv/y**
  - Achieving the risk reduction goal of exposure dose

- **Start of preparation to determine long-term management of ALPS-treated water**
  - First half of FY2016

#### Isolating

- **Control inflow of groundwater into the buildings < 100 m³/day**

#### Preventing leakage

- **Storage of all the water generated by treatment of highly contaminated water in welded-joint tanks**

#### Stagnant water treatment

- **Reduction of radioactive materials in stagnant water in the buildings by half**

### Retrieval of spent fuel

- **Decision on methods for the treatment and storage of spent fuel**
  - Around 2020

#### Start of spent fuel retrieval

- **Unit-1**
  - Second half of FY2017 → FY2020
- **Unit-2**
  - First half of FY2020 → FY2020
- **Unit-3**
  - First half of FY2015 → FY2017

*The changes in milestones for SF removal are mainly due to “Measures for Safety and Securing more”, including measures for preventing dust dispersion or reduction of workers’ exposure dose, etc. Best efforts to avoid delay due to “troubles” or “delay in decision” should be made hereafter.*

### Retrieval of fuel debris

- **Policy on fuel debris retrieval from each Unit**

- **Decision on the method for fuel debris retrieval from the 1st implementing Unit**
  - First half of FY2018

- **Start of fuel debris retrieval from the 1st implementing Unit**
  - 2021

### Radioactive waste

- **Establishment of basic concept of processing/disposal for solid radioactive wastes**
  - FY2017