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## Status of Nuclear Reactors Nuclear Fuel Cycle and R&D Facilities in Japan

The Fukushima Accident following the East Japan earthquake and tsunami in 2011 have been affecting Japan's nuclear energy policy. As of March 2018, 5 units out of 50 nuclear power plants are in operation, 2 out of more than 10 research reactors and critical assemblies are in operation in Japan.

After the Fukushima Accident, JAEA has been reviewing their mid-term nuclear R&D plan and has decided to decommission 44 facilities out of 99 facilities, those include, sodium cool fast reactor Monju, Fast Critical Assemblies, JRR-4, Tokai Reprocessing Plant and Plutonium Conversion Development Facility.

On the other hand remaining facilities including advanced high temperature gas reactor (HTTR) are in the JAEA's mid-term R&D plans. JAEA is also developing Accelerator Driven System (ADS) for the next generation nuclear fuel cycle.

The paper provide background information on the Theme 3 "explore challenges and opportunities for safeguarding new reactor design" and "safeguards challenges associated with increasing decommissioning activities".

Status of Typical JAEA Facilities

Facilities to be decommissioned

Fugen, Monju, FCA, TRACY, JRR-2, JRR-4, TPL, CPF, TRP, PCDF, JMTR, DCA, MMF, AGF, NEP, Conversion

Facilities required in midterm nuclear R&D plan

JRR-3, NSRR, STACY, BECKY WASTE, Tandem, PPF, PPF, Joyo, HTTR, FMF

### Which "Key Question" does your Abstract address?

NEW1.1

### Which alternative "Key Question" does your Abstract address? (if any)

NEW1.4

### Topics

NEW1

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**Track Classification:** Preparing for safeguards new facilities, processes and campaigns (NEW)