

JAEA' s recent activities related to CTBT verification regime

*Yoichi Yamamoto¹, Yuichi Kijima¹, Yutaka Tomita¹

1. Japan Atomic Energy Agency

This presentation summarizes JAEA' s recent activities related to CTBT verification regime. To establish the global verification regime of CTBT for nuclear tests, JAEA has been operating provisionally three facilities (two monitoring stations and one radionuclide laboratory) of the CTBT international monitoring system and a national data center (NDC) for radionuclide monitoring. For the 6th nuclear test conducted by North Korea in September 2017, JAEA reported the analysis and evaluation results of data observed at the CTBT radionuclide monitoring stations to the national government etc. in a timely manner and thereby contributed to the evaluation by the national government based on the CTBT operation system in Japan. No radionuclides derived from the 6th nuclear test, however, were detected. For the purpose of strengthening CTBT Organization (CTBTO)' s detection capability for nuclear tests, JAEA started new noble gas joint measurement project with CTBTO in Horonobe (Hokkaido, Japan) and Mutsu (Aomori, Japan) based on the Japanese government contribution in 2017.

Keywords: CTBT, CTBTO, international monitoring system