KAZAKHSTAN MONITORING SYSTEM: Merging Opportunities to Solve Global, Regional and Local Tasks

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KAZAKHSTAN MONITORING SYSTEM: GENERAL VIEW

In Kazakhstan, the system for monitoring of nuclear explosions and earthquakes consists of stations network (data from 1960), radiation monitoring network (data from 1972), atmosphere observation network (data from 1972), seismic array network - KSCB (KSCB), nuclear reactor (KSCB), seismographical network - KSCB (KSCB), and others. The monitoring system includes the International Data Centre (DIC) and the Information Centre of the Nuclear Explosions (ICNE). The system is organized by the Institute of Geophysical Research (IGR) and funded by the Ministry of Energy of the Republic of Kazakhstan.

The operation of these facilities included in the IGR CTBTO (stations P232, KUS, AS058, AS059, AS060, AS061, AS062, AS063, KKAR, ABKAR, and others), KSCB network (stations P231, KUS, and others), and network of Kurchatov Institute (KIC) for research purposes. The system includes also the nuclear reactor of Kurchatov Institute (KSCB) and the seismographical network of Kurchatov Institute (KSCB). The Kurchatov Institute network is a large-scale network directed by the Institute of Geophysical Research (IGR) and funded by the Ministry of Science and Higher Education of the Republic of Kazakhstan. The Kurchatov Institute network includes also the nuclear reactors and the seismographical network of Kurchatov Institute (KSCB).

GLOBAL MONITORING

The Kurchatov Institute network includes also the nuclear reactors and the seismographical network of Kurchatov Institute (KSCB). The Kurchatov Institute network is a large-scale network directed by the Institute of Geophysical Research (IGR) and funded by the Ministry of Science and Higher Education of the Republic of Kazakhstan. The Kurchatov Institute network includes also the nuclear reactors and the seismographical network of Kurchatov Institute (KSCB).

The seismic array network - KSCB (KSCB) includes also the nuclear reactors and the seismographical network of Kurchatov Institute (KSCB). The Kurchatov Institute network is a large-scale network directed by the Institute of Geophysical Research (IGR) and funded by the Ministry of Science and Higher Education of the Republic of Kazakhstan. The Kurchatov Institute network includes also the nuclear reactors and the seismographical network of Kurchatov Institute (KSCB).

REGIMENTAL MONITORING

For regional monitoring, data from more than 50 stations are used including stations of other Kazakhstan monitoring systems, as well as other international monitoring systems. The region includes also the International Data Centre (DIC) and the Information Centre of the Nuclear Explosions (ICNE). The system is organized by the Institute of Geophysical Research (IGR) and funded by the Ministry of Energy of the Republic of Kazakhstan.

OTHER OPPORTUNITIES

• Analysis of origin records and databases of the processing results in the test sites (2002) and the nuclear explosion tests (1972).

• The Kurchatov Institute network includes also the nuclear reactors and the seismographical network of Kurchatov Institute (KSCB). The Kurchatov Institute network is a large-scale network directed by the Institute of Geophysical Research (IGR) and funded by the Ministry of Science and Higher Education of the Republic of Kazakhstan. The Kurchatov Institute network includes also the nuclear reactors and the seismographical network of Kurchatov Institute (KSCB).

Kazakhstan where the nuclear safety and non-proliferation issues are acknowledged as one of the main state priorities intends to move further in developing all parts of national nuclear control system, achieve substantial progress in modernization of applied technologies with replacement of equipment especially of the earliest facilities to extend the investigated territorial area. Increase the capabilities of Kazakhstan Data Centre analysis of active interaction with the International and National networks.