#### THE UNITED STATES NATIONAL DATA CENTER

#### BY

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## Abstract

This report initially summarizes the progress made in the development of the U.S. National Data Center (NDC) at the Air Force Technical Applications Center (AFTAC) and its ongoing support to the Group of Scientific Experts (GSE) 3rd large-scale technical test (GSETT-3).

Under the GSE concept for an International Monitoring System (IMS), each participating member-state has several options from which they may choose in developing their own NDC. The US is participating in GSETT-3 by prototyping and operating a full-scale NDC.

The GSETT-3 experiment has been in progress for eight months with significant progress having been made during this time-period. The US NDC is currently forwarding data to the IDC from six primary (alpha) stations located in the United States, one primary station located in Antarctica, and eleven US auxiliary (beta) stations. In addition, the US NDC is transmitting, per each country's request, data to the IDC from participating Southern hemisphere stations including PLCA in Argentina, LPAZ in Bolivia, BDFB in Brazil, BGCA in the Central African Republic, DBIC in the Ivory Coast, CPUP in Paraguay, BOSA in South Africa, and CMAR in Thailand.

The remaining portion of the report addresses the system for providing data services at the NDC. The National Data Center Archive (NDCA) is being developed to include archiving large quantities of geophysical data (primarily seismic) for nuclear monitoring. Raw seismic waveform data will comprise the bulk of the NDCA, but it will also include supporting alpha-numeric tables and files, as well as raw hydroacoustic, infrasonic, and radionuclide data. Specifically, mechanisms through which NDCA data will be made available to US researchers and other authorized users, formats and content for all data contained in the archives, the scope of the data archives, mode of data submission, and types and priority of request handling are addressed in this report.

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