

20 OCT 1997

## Memorandum of Agreement

Between the

U.S. Department of Defense

and the

United States Geological Survey

Concerning Cooperation on Matters Pertaining to the  
Comprehensive Nuclear Test Ban Treaty

**Purpose:** The purpose of this Agreement is to identify and reaffirm the roles and responsibilities of the Department of Defense (DoD) and the U.S. Geological Survey (USGS) in certain matters related to the Comprehensive Nuclear Test Ban Treaty (CTBT) and to specify a cost-effective means of cooperation to enhance the effectiveness of each Party in carrying out their missions.

**Background:** The CTBT, signed by the United States on September 24, 1996, specifies various elements of a verification regime including an International Monitoring System (IMS). A component of the CTBT IMS is a network of Auxiliary Seismic Stations. The treaty provides specific locations of sites in the United States.

The DoD, in its national security role of ensuring compliance and monitoring of nuclear arms control treaties and monitoring foreign nuclear activity, has a long-term program of support for planning, implementation and executing provisions of the CTBT. The Secretary of Defense has assigned responsibility for management of the CTBT programs to the Assistant to the Secretary of Defense for Nuclear and Chemical and Biological Defense Programs in accordance with DoD Directive 2060.1 and Presidential decisions. The DoD maintains the U.S. Atomic Energy Detection System for monitoring foreign nuclear activity. Elements of the U.S. Atomic Energy Detection System are incorporated into the CTBT IMS seismic network. The DoD operates the U.S. CTBT National Data Center (NDC) to carry out specific functions related to U.S. responsibilities under the CTBT.

The USGS is responsible, in accordance with P.L. 95-124 (as amended), for monitoring, analyzing, and reporting on seismic events occurring within the United States and its territories and worldwide as these affect U.S. interests. These responsibilities include operation of the National Earthquake Information Center (NEIC), the National Seismograph Network, and a significant portion of the Global Seismographic Network. The USGS also supports the operation of twelve regional seismograph networks within the U.S.

The authority for this Agreement is the Economy Act, 31 USC. Section 1535.

ENCLOSURE 2

The DoD and the USGS have a long and successful history of cooperation in the field of seismological observations which has been extremely beneficial to their respective missions.

**General Agreement:** The two Parties agree that with a clear understanding between them, the responsibilities outlined in the preceding section can be planned and executed in a manner that recognizes each Party's authority, mission, function and capabilities and avoids duplication of effort. The Parties agree on five general items. Specific details on each of these items are contained in the attachment to this Agreement.

- a. For the purposes of data exchange discussed in this Agreement, the USGS NEIC shall be considered as a functional extension of the U.S. CTBT NDC.
- b. The USGS agrees to operate seven IMS Auxiliary Seismic Stations on the territory of the United States and provide data from these facilities to the U.S. CTBT NDC for CTBT purposes. The DoD agrees to provide USGS with the necessary technical and budgetary support required for the additional CTBT mission.
- c. The USGS agrees to provide information to the DoD on large chemical explosions carried out in the commercial sector as might be required by the Confidence Building Measures provision of the CTBT. The DoD agrees to provide the USGS with the necessary technical and budgetary support required for the additional CTBT mission.
- d. The USGS, as the agency that provides the primary and authoritative source of data on seismic events located in the United States, agrees to provide information to the DoD on such events in the United States as may be required by provisions of the CTBT, including the Consultation and Clarification provision and the On-Site Inspection provision. The DoD agrees to provide the USGS with the necessary technical and budgetary support required for the additional CTBT mission.
- e. The DoD, as the agency responsible for the operation of all CTBT IMS Primary Seismic Stations in the United States, agrees to provide data from these facilities to the USGS NEIC to enhance the capability of the USGS to meet its domestic responsibilities of reporting on seismic activity within the United States. Additionally, the USGS NEIC shall have timely access to all CTBT IMS data and bulletin information relevant to USGS programs and missions.

**Implementing Arrangements:** The Parties agree to respect and observe the roles and responsibilities set forth in this Agreement as might pertain to the development of an Executive Order to implement the CTBT.

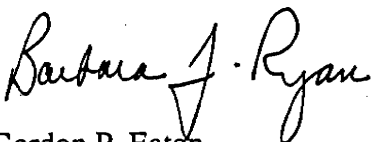
The primary means of data exchange outlined in this Agreement will be between the U.S. CTBT NDC and the USGS NEIC. The Chief Geologist, for the USGS, and the Deputy Assistant to the Secretary of Defense for Nuclear Treaty Programs, for the DoD, are the responsible executives for implementing this Agreement. These executives may mutually agree on additional details required to implement this Agreement in the form of addenda to the Attachment; or, agree to modify the details in the Attachment consistent with the General Agreement section of this Agreement. If a disagreement arises on funding requirements for this Agreement, the issue will be submitted to the signatories to this Agreement for adjudication.

Reimbursement to USGS will be accomplished by submitting an SF 1080 bill for the actual costs incurred in performing the additional CTBT missions as outlined in the General Agreement section. USGS and DoD will agree by no later than May 31 of each year on the estimated costs to be incurred in the following fiscal year (FY). USGS will bill DoD by August 31 of each FY for the costs incurred in the FY. USGS will direct the bill to:

Department of Defense  
Nuclear Treaty Program Office  
1901 N. Moore Street, Suite 609  
Arlington, Virginia 22209


Both Parties, in signing this Agreement, acknowledge that each is responsible for the integrity of its own data. This Agreement will enter-into-force upon the signatures of both parties and will remain in-force as long as the United States remains a signatory to the CTBT. This Agreement will be reviewed every three years for currency. Each party has the right to withdraw from this Agreement, upon written notice from one executive to the other, at least 180 days prior to the termination date. The withdrawal notice will include a statement of the extraordinary event(s) that lead to the withdrawal.

For the U.S. Geological Survey

For   
Gordon P. Eaton  
Director

Date: 9-16-97

For the U.S. Department of Defense

  
Harold P. Smith, Jr.  
Assistant to the Secretary of Defense (NCB)

Date: 5 Sep 97