

Annual Report 2001

ARTICLE I of the Treaty

Basic Obligations

1. Each State Party undertakes not to carry out any nuclear weapon test explosion or any other nuclear explosion, and to prohibit and prevent any such nuclear explosion at any place under its jurisdiction or control.

2. Each State Party undertakes, furthermore, to refrain from causing, encouraging, or in any way participating in the carrying out of any nuclear weapon test explosion or any other nuclear explosion.

This report gives an account as of 31 December 2001 of the activities undertaken by the Provisional Technical Secretariat (PTS) of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization during 2001, in fulfilment of the Preparatory Commission's programme for establishing the verification regime provided for in the Comprehensive Nuclear-Test-Ban Treaty and undertaking the necessary preparations for the implementation of the Treaty.

The report is presented in the order of the seven Major Programmes contained in the Programme and Budget of the Commission. In implementing the work programme, the PTS has established the necessary synergies within and between its Divisions and Sections responsible for the respective Major Programmes with a view to ensuring that advancement in the implementation of the various elements of the Commission's overall mandate is properly coordinated and integrated.



Foreword

by the Executive Secretary

On 10 September 2001, the Comprehensive Nuclear-Test-Ban Treaty saw the fifth anniversary of its adoption and I am very pleased to submit herewith an annual report of the Provisional Technical Secretariat (PTS) of the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization for the same year, which shows significant additional progress made in establishing the verification regime in all its aspects. Since the adoption of the Treaty, the international community has attached a high priority to it and invested significant personnel, financial and technological resources to support it. It is my pleasure to report that intensive work by the staff of the PTS and the cooperation of people working for the Treaty all over the world have brought tangible results.

During 2001, considerable achievements were made in the establishment of the International Monitoring System (IMS), which consists of a network of 321 seismic, hydroacoustic, infrasound and radionuclide stations and 16 radionuclide laboratories situated in some ninety countries around the world. By the end of the year 84% of the site surveys for the stations had been completed. Altogether 122 stations in all four technologies have been incorporated into the verification system and 104 additional stations are under construction or in the stage of contract negotiation.

The build-up of the International Data Centre (IDC), which is responsible for processing, analysing and reporting on the data received from IMS stations, is proceeding according to a seven phase Progressive Commissioning Plan. In 2001 the IDC completed Phase 4, Initial Testing, and began preparations for full scale testing. The third and last package of the IDC applications software coming from the prototype IDC was installed and entered into operational use, allowing IMS data and high quality IDC products to be provided continuously to the 387 currently authorized users from 53 States Signatories.

The installation of the Global Communications Infrastructure – a worldwide, secure satellite communications network – accelerated in 2001 with 43 new very small aperture terminals (VSATs) installed. At the end of the year, a total of 87 VSATs were operational and 150 site surveys had been completed, while 65 additional VSAT installations were at various stages of preparation.

The year 2001 saw further preparations for the on-site inspection (OSI) regime. The major achievement was the completion of the initial draft rolling text of the OSI Operational Manual. In cooperation with host countries, the PTS also organized an OSI workshop, a field experiment and an experimental advanced training course on radionuclides, which provided important contributions to the elaboration process of the OSI Operational Manual and to development of inspection methodology and procedures, equipment specifications and the inspector training programme.

Foreword by the Executive Secretary

With regard to the promotion of the Treaty's entry into force, a major highlight of 2001 was the Conference on Facilitating the Entry into Force of the Comprehensive Nuclear-Test-Ban Treaty, held in November in New York. A total of 118 States, including 9 non-signatory States, participated in the conference and around fifty Ministers addressed the conference. The participating States reaffirmed their commitment to the Treaty. The PTS provided support and focused its outreach activities throughout the year on the conference. The year 2001 brought five new signatures and 19 ratifications, including a ratification by one of the 44 States listed in Annex 2 to the Treaty, whose ratification is required for entry into force.

Although much remains to be done to advance the universality of the Treaty and its entry into force, political support for the Treaty in 2001 was reflected in the financial support for the Commission, with payment of assessed contributions remaining high. With the regulatory framework of the Commission firmly in place, 2001 was a year of consolidation of the administrative and support functions of the PTS, with improvements being made to existing procedures and systems.

The year 2001 was also a year in which the international community experienced the unprecedented tragic terrorist attacks in New York. Since 11 September the world has been doing its utmost to secure international peace and security and to pursue measures to strengthen regimes for non-proliferation of weapons of mass destruction. I firmly believe that the work of the Commission is of particular significance in this regard and the PTS will continue to advance in its work with determination in 2002.

Wolfgang Hoffmann
Executive Secretary

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Vienna
March 2002

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Cover: Installation vessel being prepared for cable laying operations
for hydroacoustic station HA1, Cape Leeuwin, Australia.

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Abbreviations

CIF	Capital Investment Fund
DMS	Document Management System
DOTS	Database of the (Provisional) Technical Secretariat
ECS	Experts Communication System
GCI	Global Communications Infrastructure
GSETT-3	Group of Scientific Experts Third Technical Test
IDC	International Data Centre (Vienna)
IDRT	initial draft rolling text
IMS	International Monitoring System
IT	information technology
NDC	National Data Centre
NGO	non-governmental organization
O&M	operation and maintenance
OSI	on-site inspection
pIDC	prototype International Data Centre (Arlington, Virginia, USA)
PKI	Public Key Infrastructure
PMO	Policy-Making Organ
PTS	Provisional Technical Secretariat
QA	quality assurance
REB	Reviewed Event Bulletin
SAMS	Seismic Aftershock Monitoring System
VIC	Vienna International Centre
VSAT	very small aperture terminal
WGA	Working Group A
WGB	Working Group B
WMO	World Meteorological Organization