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**CANADA**



**BIBLIOGRAPHY ON  
ARMS CONTROL VERIFICATION:  
THIRD UPDATE**



**OCTOBER 1994**

**CANADA**



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ARMS CONTROL VERIFICATION:  
THIRD UPDATE**



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## PREFACE

United Nations General Assembly Resolution 45/65 of 4 December 1990 adopted by consensus the Report of the Group of Qualified Governmental Experts on the Role of the United Nations in the Field of Verification. This resolution, inter alia, called upon member states to assist the Secretary General in implementing the recommendations contained in the Report of the Group of Experts. Among these recommendations was the development of a "consolidated data bank of published materials and data provided on a voluntary basis by member states on all aspects of verification and compliance".<sup>1</sup>

Canada has played a particularly active role in the United Nations' consideration of the issue of "verification in all its aspects", including the study conducted by the Group of Experts. At the Forty-Fifth Session of the General Assembly, Canada's then Secretary of State for External Affairs Joe Clark confirmed Canada's intention to support the United Nations in establishing such a consolidated data bank through voluntary contributions of Canadian compilations and indexes of verification material. This undertaking follows from an on-going policy commitment by Canada to share with others, through the United Nations, the results of its verification research.

During the Forty-Sixth Session of the General Assembly, Canada contributed to the United Nations database a detailed Bibliography on Arms Control Verification: 1962-1991. That Bibliography covered more than 1500 entries during those years. Included were English language publications and submissions by governments and international organizations as well as the academic research community's literature on the subject. The following year, during the Forty-Seventh Session of the General Assembly, Canada contributed a second report entitled Bibliography on Arms Control Verification: Update. That Update contained over 800 new entries covering approximately the same period as the 1991 Bibliography, with special emphasis on the literature between the summers of 1991 and 1992. Also included was French language material. In 1993, the Second Update was provided covering more than 400 new entries.

The following report, entitled Bibliography on Arms Control Verification: Third Update further updates the three previous bibliographies provided in 1991, 1992 and 1993. It has been prepared as a further Canadian contribution to the development of a United Nations data bank on verification and to assist

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<sup>1</sup> UN Document, A/45/372, 28 August 1990, para. 263.

governmental experts, negotiators and researchers in their work on verification matters.

The Canadian Government wishes to acknowledge the work in the preparation of this Third Update performed under contract by Mr. René Unger, through the Verification Research Program of the Department of Foreign Affairs and International Trade.

## ABSTRACT

This Third Update is a follow-on publication from earlier compilations of verification literature. The original was entitled Bibliography on Arms Control Verification: 1962-1991, published by External Affairs and International Trade Canada, and was followed by two updates in 1992 and 1993. Researchers are advised to consult all these bibliographies for a complete picture of the literature covered within the Verification Literature database.

The Third Update lists alphabetically over 300 documents related to verification added to the database after the publication of the Second Update. It generally covers new material received since the summer of 1993. It also covers French language material, particularly that published by the Department of Foreign Affairs and the United Nations Institute for Disarmament Research. As before, the scope of this bibliography encompasses the publications and submissions of governments, and international organizations as well as the academic literature on the subject.

Each document has been assigned a number of subject keywords describing its contents. An updated thesaurus of these keywords is included. Subject access to the documents contained in the bibliography is provided through an index of these keywords.

## INTRODUCTION

### Purpose

The Bibliography on Arms Control Verification: Third Update and its predecessors have been developed to facilitate research on non-proliferation, arms control and disarmament verification issues. With this aim in mind, a Subject Index has been provided to help with searches on a wide variety of subjects. In addition, the work of specific personal and corporate authors can be identified rapidly.

### Scope

The Third Update follows-on from the three earlier publications entitled:

- Bibliography on Arms Control Verification:1962-1991,
- Bibliography on Arms Control Verification: Update, and
- Bibliography on Arms Control Verification: Second Update.

The Third Update generally covers material identified since the summer of 1993. Researchers should note that some documents dated before the summer of 1993 have also been included in the Third Update. Consequently, to ensure thorough coverage of the literature published before the summer of 1993, the Third Update as well as the previous three bibliographies should be consulted.

As was true for the earlier bibliographies, a variety of documents are covered in the Third Update. The focus, however, is on substantive discussions of matters related to verification -- documents that propose, discuss, explain, evaluate or otherwise comment in a detailed fashion upon verification processes, procedures or systems. More transitory materials, such as documents that summarize the current state of negotiations or report on specific events, have usually been omitted from the Third Update. In this regard, articles from newspapers, newsletters and similar publications with a "current affairs" focus generally have not been included.

There are several topics covered by the Third Update -- confidence building, peacekeeping and compliance -- that are included because of their focus on matters related to arms control verification.

A variety of sources have been examined for this Third Update, which are listed below.

- The Conference on Disarmament (CD), 1993-1994: 1994 documentation is not covered in this Third Update.

- **United Nations publications:** The United Nations has been active in the field of verification mainly in two ways: as a source of research and as a forum for deliberation. Coverage includes UN General Assembly and Security Council resolutions pertaining to verification and submissions on this subject from the Secretary General as well as the Member States of the UN. Also covered are relevant UN Secretary General studies and research publications by the United Nations Institute for Disarmament Research (UNIDIR).
- **Other International Organizations:** Several other organizations besides the CD and the UN have dealt with verification issues. Two such organizations are the International Atomic Energy Agency and the Western European Union. Budgetary and other similar annual documents, however, have not been included.
- **National Governments:** Governmental publications have been covered in the Third Update. Canadian publications make up a large proportion of these documents, but there are also a number of American documents.
- **Academic Publications:** The Third Update contains books, reports, articles and papers submitted at various conferences, and individual academic papers appearing in a variety of journals. Where the contents of conference proceedings or edited publications are of particular interest, articles have been listed individually under the author's name, not under those of the editors of the proceedings.
- **International Treaties and Agreements:** The texts of international treaties and agreements have not been covered by the Third Update.

### Arrangement

As for the three earlier bibliographies, the entries contained in the Third Update are arranged alphabetically in descending order of priority by:

- author,
- corporate author,
- article title, and
- book or document title.

All entries follow a standard bibliographic style.



The names of corporate authors are entered in descending hierarchical order. Below is an example:

United States. Congress. Library of Congress.  
Congressional Research Service.

Under each entry is a list of subject keywords used to describe the contents of each article. These keywords are taken from a Thesaurus of controlled vocabulary, which can be found later in this report. For example:

73. Fetter, Steve. "Nuclear Archeology: Verifying Declarations of Fissile-Material Production". SCIENCE & GLOBAL SECURITY. Vol.3, Nos. 3-4, 1994.  
SUBJECT KEYWORDS: S R SENSORS; Rad Monitoring; Cutoff

### Access

The Third Update can be used in a variety of ways. The alphabetical listing of the entries can be used to retrieve documents published by a particular author, private organization, government, governmental agency, or international organization.

If information on a particular topic related to verification is desired, the Subject Index can be used. The keyword Thesaurus preceding the Subject Index explains the keywords used and their interrelationships. In the Index, the numbers ("postings") following each keyword refer to the appropriate entries in the bibliography.

The keyword structure to the subject indexing of the entries in the Third Update has been designed for computer searching using Boolean search strategies. Consequently, when printed in isolation, some keywords may have a large number of postings. A number of keywords have been added and refined as the database was updated: the user should keep this in mind when consulting the Third Update and the three previous bibliographies.

When searching for the views of a particular country or countries on verification issues, in addition to checking under the country's name in the alphabetical listing, it may be useful to examine the Subject Index under the relevant subject entry. This will permit commentaries on national positions to be retrieved.

### Thesaurus

Below are explanations of the terms used in the thesaurus.

**SCOPE NOTE (SN):** A Scope Note defines a term or describes its scope.

EG.           SLCM                   SN: Submarine Launched Cruise  
Missile

EG.           CONSULTATION       SN: Includes consultation and  
cooperation procedures,  
complaints procedures, crisis

management and prevention  
procedures

**BROADER TERM (BT):** A Broader Term refers the reader to  
related keywords that are larger in  
scope.

EG.           SATELLITE           BT: R SENSORS

In this example, the keyword 'Satellite' describes just  
one method of remote sensing and so represents just one  
aspect of the concept of remote sensors (R SENSORS).

**NARROWER TERM (NT):** A Narrower Term refers the reader to  
related keywords that are more specific.

EG.           CONSULTATION       NT: SCC

In this example, the keyword 'SCC' represents one  
particular example of consultation -- in this case, the  
Standing Consultative Commission used under the ABM  
Treaty.

**RELATED TERM (RT):** A Related Term refers the reader to  
keywords related to the keyword under  
discussion but not in a more general or  
more specific sense.

EG.           CFE                   RT: CONVENTIONAL

The keyword 'CFE' (Conventional Forces in Europe  
Treaty) is related to the keyword 'conventional' in  
that conventional weapons are a central issue in the  
CFE Treaty.

**USE (USE):**       The term USE directs the user to search for a  
topic within the index using the indicated  
term.

EG.           Testing           USE: R&D

**USED FOR (UF):** The term Used For is the reciprocal of USE.

EG.           R&D                   UF: Testing

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# THESAURUS

### THESAURUS

The Thesaurus below lists the terms used as 'Keywords' in the accompanying Subject Index. Where necessary, each keyword is followed by an explanatory note. The reader should note that acronyms and abbreviations have been used extensively in the selection of these keywords. Keywords will also be followed by a note of any broader, narrower or related terms.

NOTE: A number of keywords have been added and refined as the Verification Literature database was updated; the user should keep this in mind when consulting the Third Update.

- **ABM**  
Anti-Ballistic Missile  
NT: ABMT  
RT: ASAT
- **ABMT**  
Anti-Ballistic Missile Treaty  
BT: ABM
- **ACD POLICY (COUNTRY)**  
Arms Control and Disarmament Policy (Country)  
SN: Refers to a country's attitude or position regarding general arms control and disarmament issues.  
RT: ARMS CONTROL
- **ACOUSTIC**  
SN: Refers to acoustic means of verification.  
RT: S R SENSORS  
RT: R SENSORS
- **AERIAL**  
SN: Refers to sensors used from a fixed wing aircraft as well as related procedures and platforms.  
BT: R SENSORS  
RT: OPEN SKIES
- **AFRICA**  
SN: Includes Arab Africa, but excludes Egypt.
- **AIRCRAFT**  
SN: Refers to controls on military aircraft.  
RT: CONVENTIONAL  
RT: NW
- **AIRSHIP**  
SN: Refers to discussion of lighter-than-air aerial platforms.  
RT: S R SENSORS  
RT: R SENSORS



- **ALCM**  
Air Launched Cruise Missile  
BT: NW  
BT: CONVENTIONAL  
BT: CRUISE
- **ANTARCTICA**
- **ARCTIC**
- **ARMS CONTROL**  
SN: Refers to discussion of the larger context of verification activities.  
RT: ACD POLICY (COUNTRY)
- **ARMS REGISTER**
- **ASAT**  
Anti-Satellite Weapons System  
UF: Space Weapon  
RT: SPACE  
RT: SATELLITE  
RT: ABM
- **AZERBAIJAN**  
SN: Refers to conflict management activities in the region of Azerbaijan.
- **BASELINE**  
SN: Refers to discussion of the establishment and maintenance of baselines for verification purposes.
- **Binary Weapons**  
USE: CW
- **BIOMETRIC**  
SN: Refers to those sensors which scan aspects of the human body for verification/identification purposes.  
RT: S R SENSORS
- **BTWC**  
Biological and Toxins Weapons Convention  
BT: BW  
RT: YELLOW RAIN
- **BW**  
Biological Weapon  
UF: Dual Capable  
BT: WMD  
NT: MISSILE  
NT: PRODUCTION  
NT: STOCKPILING  
NT: DESTRUCTION  
NT: YELLOW RAIN

NT: PROLIFERATION  
 NT: BTWC

- **CBM**  
 Confidence Building Measures  
 UF: Confidence and Security Building Measures  
 RT: CSCE
- Confidence and Security Building Measures  
 USE: CBM
- **CD**  
 Conference on Disarmament
- **CENTRAL AMERICA**
- **CFE**  
 Conventional Forces in Europe Treaty and Negotiations  
 RT: CONVENTIONAL  
 RT: JCG
- **CHEMICAL**  
 SN: Refers to discussions of chemical substances and their detection.  
 RT: S R SENSORS  
 RT: R SENSORS
- **COLLATERAL ANALYSIS**  
 SN: Refers to analysis of open literature (eg. journals and newspapers) for verification purposes, including budgetary analysis and literature reviews.  
 UF: Literature Review  
 RT: MILITARY BUDGET  
 RT: RECORDS MONITORING  
 RT: INFO EXCH  
 RT: INTELLIGENCE
- Complaints Procedures  
 USE: CONSULTATION
- **COMPLIANCE**  
 SN: Refers to general discussions regarding compliance behaviour.  
 RT: INTERFERENCE
- **COMPLIANCE (COUNTRY)**  
 SN: Refers to discussions of a specific country's compliance with ACD agreements, and attitudes towards the issue of compliance; includes discussions of appropriate compliance/verification standards, such as what constitutes 'adequate' or 'effective' verification; also refers to discussions regarding the level of confidence a country has in its ability to evaluate the compliance of other countries.

**- COMPLIANCE HISTORY**

SN: Refers to discussion of compliance debates and issues before 1950.

**- COMPLIANCE ORGANIZATION (COUNTRY)**

SN: Refers to the bureaucratic process involved in a country's assessment of compliance.

RT: NATIONAL AUTHORITY

**- CONFIDENTIALITY**

SN: Refers to efforts to ensure that verification activities do not collect data on matters outside their legitimate mandate.

NT: CONFIDENTIALITY COMMERCIAL

RT: INFO EXCH

RT: LEGALITY

RT: INTELLIGENCE

RT: RECORDS MONITORING

**- CONFIDENTIALITY COMMERCIAL**

SN: Refers to efforts to protect commercial secrets in the course of verification activities.

BT: CONFIDENTIALITY

RT: CWC

RT: SAFEGUARDS

RT: RECORDS MONITORING

**- CONSULTATION**

SN: Refers to consultation and cooperation procedures, complaints procedures, and crisis management and crisis prevention procedures.

UF: Complaints Procedures

NT: SCC

NT: JCG

NT: SVC

**- CONTROL POSTS**

UF: Observation Posts

BT: OSI

BT: SAMPLING

RT: PPM

RT: PEACEKEEPING

RT: S R SENSORS

**- CONVENTIONAL**

SN: Refers to weapons that are not weapons of mass destruction (ie. nuclear, biological, chemical, radiological or environmental).

UF: Dual-Capable Weapons

NT: AIRCRAFT

NT: MISSILE

NT: PRODUCTION

NT: STOCKPILING

NT: DESTRUCTION

NT: CRUISE

NT: PROLIFERATION  
 NT: ALCM  
 NT: SLCM  
 RT: MBFR  
 RT: CFE

- COOP MEASURES

Cooperative Measures

SN: Refers to Functionally Related Observable Differences (FRODs), Externally Observable Differences (EODs), Designated Deployment Areas (DDAs), counting aids and other measures designed to assist verification; requirements for specific cooperative actions by the inspected parties.

- COST

SN: Refers to explicit discussion of monetary costs or financing of a verification system.

- CRUISE

Cruise Missiles

BT: NW  
 BT: CONVENTIONAL  
 NT: ALCM  
 NT: SLCM

- CSCE

Conference on Security and Cooperation in Europe

RT: CBM

- CTBT

Comprehensive Test Ban Treaty

BT: NW  
 BT: NTBT  
 RT: SEISMIC

- CUTOFF

Fissionable Material "Cutoff"

BT: NW  
 RT: IAEA

- CW

Chemical Weapons

UF: Dual Capable Weapons  
 UF: Binary Weapons  
 BT: WMD  
 NT: MISSILE  
 NT: PRODUCTION  
 NT: STOCKPILING  
 NT: DESTRUCTION  
 NT: PROLIFERATION  
 NT: CWC  
 NT: CWFZ  
 NT: CW USE

- **CW USE**  
Chemical Weapons Use  
SN: Refers to investigations regarding the alleged use  
of chemical weapons.  
BT: CW  
RT: OSI
  
- **CWC**  
Chemical Weapons Convention  
BT: CW  
NT: NATIONAL AUTHORITY  
RT: OPCW  
RT: CONFIDENTIALITY COMMERCIAL
  
- **CWFZ**  
Chemical Weapons Free Zone  
BT: CW  
RT: DMZ
  
- Data Exchange  
USE: INFO EXCH
  
- **DESTRUCTION**  
SN: Refers to the destruction of weapons.  
BT: NW  
BT: BW  
BT: CW  
BT: CONVENTIONAL
  
- Dual Capable Weapons  
USE: NW  
USE: BW  
USE: CW  
USE: CONVENTIONAL
  
- **DMZ**  
Demilitarized Zones  
RT: NWFZ  
RT: CWFZ
  
- **ELECTRIC FIELD**  
SN: Refers to the discussion of the monitoring of electric  
fields surrounding an object or activity for  
verification purposes.
  
- **ELECTRONIC**  
SN: Refers to discussion of the interception or  
surveillance of electro-magnetic signals (eg. SIGINT,  
ELINT, COMINT) for verification purposes.  
RT: S R SENSORS  
RT: R SENSORS

- **ENMOD**  
Environmental Modification  
SN: Includes the ENMOD Treaty, as well as discussions of laws relating to war-related damage to the environment.  
BT: WMD  
RT: NW
  
- **ENVIRONMENT**  
SN: Refers to discussion of the verification provisions of treaties concerned with the environment.  
RT: ENVIRONMENT CC  
RT: ENVIRONMENT MP
  
- **ENVIRONMENT CC**  
Environment -- Climate Change  
SN: Refers to analysis of verification discussions regarding the Framework Convention on Climate Change.  
BT: ENVIRONMENT
  
- **ENVIRONMENT MP**  
Environment -- Montreal Protocol  
SN: Refers to analysis of verification discussions regarding the Montreal Protocol.  
BT: ENVIRONMENT
  
- **ENVIRONMENTAL SAMPLING**  
SN: Refers to verification activities involving water, soil or air sampling from outside facilities.  
BT: SAMPLING
  
- **EUROPE**
  
- **Game Theory**  
USE: MATH
  
- **EXPORT CONTROLS**  
RT: NSG
  
- **GCD**  
General and Complete Disarmament
  
- **GROUND**  
SN: Refers to detailed discussion of the nature of and challenges inherent in ground-based sensors.  
RT: S R SENSORS  
RT: R SENSORS
  
- **HAND HELD**  
SN: Refers to verification activities involving the use of hand-held sensors.  
RT: S R SENSORS  
RT: R SENSORS

- **HELICOPTER**  
SN: Refers to discussion of helicopters as platforms for aerial sensors.  
RT: **S R SENSORS**  
RT: **R SENSORS**
  
- **HUMAN SAMPLING**  
SN: Refers to verification techniques involving the sampling of human blood and tissue.
  
- **IAEA**  
International Atomic Energy Agency  
RT: **NW**  
RT: **PROLIFERATION**  
RT: **CUTOFF**  
RT: **SAFEGUARDS**
  
- **INDIAN OCEAN**
  
- **INF**  
Intermediate Nuclear Forces Treaty  
SN: Refers also to all discussion of Intermediate Range Nuclear Missiles.  
RT: **NW**  
RT: **MISSILE**  
RT: **SVC**
  
- **INFO EXCH**  
Information Exchange  
UF: Data Exchange  
RT: **COLLATERAL ANALYSIS**  
RT: **CONFIDENTIALITY**
  
- **INHUMANE WEAPONS**  
Convention on Prohibition or Restrictions on the Use of Certain Conventional Weapons Which May Be Deemed to Be Excessively Injurious or to have Indiscriminate Effects  
SN: Includes discussions relating to mines, booby traps, non-detectable fragments, and incendiaries.  
RT: **MINES**
  
- **INTELLIGENCE**  
SN: Refers to discussions of intelligence processes as they relate to verification; includes discussions of HUMINT (human intelligence), SIGINT (signals intelligence), and COMINT (communications intelligence).  
RT: **COLLATERAL ANALYSIS**  
RT: **TELEMETRY**  
RT: **CONFIDENTIALITY**
  
- **INTERFERENCE**  
SN: Refers to interference techniques with verification efforts, both passive (concealment and deception) and active (jamming). Includes discussion of seismic

decoupling techniques.

RT: COMPLIANCE

- ISMA

International Satellite Monitoring Agency  
UF: Regional Satellite Monitoring Agency  
BT: SATELLITE  
RT: PAXSAT  
RT: SPACE  
RT: IVO

- IVO

International Verification Organization  
RT: UN  
RT: ISMA

- JCG

Joint Consultative Group  
SN: The consultative body established by the CFE  
Treaty.  
BT: CONSULTATION  
RT: CFE

- JVE

Joint Verification Experiments  
BT: NW  
RT: SEISMIC

- LASER

SN: Refers to the use of lasers as a means of  
verification.  
RT: S R SENSORS  
RT: R SENSORS

- LEGALITY

SN: Refers to discussions of the legal aspects and  
implications of a verification system, including  
international and domestic law.  
RT: CONFIDENTIALITY

- Literature Review

USE: COLLATERAL ANALYSIS

- LTBT

Limited Test Ban Treaty  
BT: NW  
BT: NTBT  
RT: SEISMIC

- MAGNETIC

SN: Refers to the measurement of magnetic anomalies and  
other magnetic phenomenon.  
RT: S R SENSORS  
RT: R SENSORS



- **MANPOWER**  
SN: Refers to the verification of controls on military personnel levels.  
RT: PERSONNEL
- **MATH**  
SN: Refers to mathematical analyses of verification, compliance and related matters.  
UF: Game Theory  
RT: STAT SAMPLING
- **MBFR**  
Mutual Balanced Force Reduction (Talks)  
RT: CONVENTIONAL
- **MEDIASAT**  
SN: Refers to discussions of the use of satellite imagery and related information for news gathering purposes.  
BT: SATELLITE  
BT: SATELLITE COMMERCIAL
- **MEDITERRANEAN**
- **MIDEAST**  
Middle East  
SN: Includes Egypt.  
RT: SSM  
RT: UNSCOM
- **MILITARY BUDGET**  
SN: Refers to efforts to increase transparency through the publication and/or exchange of data on military budgets.  
RT: RECORDS MONITORING  
RT: COLLATERAL ANALYSIS  
RT: INFO EXCH
- **MINES**  
RT: INHUMANE WEAPONS
- **MISSILE**  
SN: Refers to discussion of ballistic missiles.  
BT: NW  
BT: BW  
BT: CW  
BT: CONVENTIONAL  
NW: MOBILE  
NW: MTCR  
RT: INF
- **MOBILE**  
SN: Refers to mobile ballistic missile systems.  
BT: MISSILE

- **MTCR**  
Missile Technology Control Regime  
BT: MISSILE
- **NATIONAL AUTHORITY**  
SN: Refers to all aspects of the national implementation of measures respecting the Chemical Weapons Convention by a signatory nation.  
BT: CWC  
RT: COMPLIANCE ORGANIZATION (COUNTRY)  
RT: VERIFICATION ORGANIZATION  
RT: VERIFICATION ORGANIZATION (COUNTRY)  
NT: NATIONAL AUTHORITY (COUNTRY)
- **NATIONAL AUTHORITY (COUNTRY)**  
SN: Refers to a particular country's activities in meeting its obligations to the CWC.  
BT: NATIONAL AUTHORITY
- **NATIONAL SELF SUPERVISION**  
SN: Refers to national verification procedures which are self-regulated or self-enforced.
- **National Technical Means**  
USE: R SENSORS
- **NATO**  
North Atlantic Treaty Organization
- **NAVAL**  
SN: Refers to verification activities relating to a maritime context.  
UF: Sea Bed Treaty
- **NE ASIA**  
North East Asia  
SN: China, North and South Korea, the Soviet Far East, and Japan.
- **NEW WEAPONS**  
SN: Refers to discussion of new weapons technologies (eg. lasers, particle weapons, etc.).  
UF: Space Weapons
- **NPPI**  
Non-Physical/Psychological Inspection  
SN: Refers to attempts to draw upon personal knowledge of violations as the means of verifying an agreement, as opposed to more physical forms of inspection.
- **NPT**  
Non-Proliferation Treaty  
BT: NW  
BT: PROLIFERATION

- NSG  
Nuclear Suppliers Group  
RT: EXPORT CONTROLS
  
- NTBT  
Nuclear Test Ban Treaty  
SN: Includes general discussion of a nuclear test ban.  
BT: NW  
NT: CTBT  
NT: LTBT  
NT: PTBT  
NT: TTBT  
RT: SEISMIC
  
- NW  
Nuclear Weapons  
UF: Dual Capable Weapons  
BT: WMD  
NT: ALCM  
NT: CRUISE  
NT: CTBT  
NT: CUTOFF  
NT: DESTRUCTION  
NT: JVE  
NT: LTBT  
NT: MISSILE  
NT: NPT  
NT: NTBT  
NT: NWFZ  
NT: PNE  
NT: PNET  
NT: PRODUCTION  
NT: PROLIFERATION  
NT: PTBT  
NT: R WEAPON  
NT: SAFEGUARDS  
NT: SEISMIC  
NT: SLCM  
NT: STOCKPILING  
NT: TTBT  
RT: AIRCRAFT  
RT: INF  
RT: ENMOD  
RT: IAEA  
RT: SALT I  
RT: SALT II  
RT: START
  
- NWFZ  
Nuclear Weapons Free Zone  
BT: NW  
RT: DMZ
  
- Observers  
USE: OSI TEAM

- Observation Posts  
USE: CONTROL POSTS
- OPCW  
Organization for the Prohibition of Chemical Weapons  
RT: CWC
- OPEN SKIES  
SN: Refers to discussion of the Open Skies (Europe/North America) negotiations.  
RT: AERIAL  
RT: R SENSORS
- OPTICAL  
SN: Refers to discussion of optical equipment.  
RT: S R SENSORS  
RT: R SENSORS
- OSI  
On-Site Inspection  
SN: Refers to a verification method that involves the physical presence of foreign or international inspectors on the territory of the inspected country.  
NT: CONTROL POSTS  
NT: OSI CHALLENGE  
NT: OSI E/E POINTS  
NT: OSI ESCORTS  
NT: OSI FACILITY  
NT: OSI MANAGED ACCESS  
NT: OSI OBJECT  
NT: OSI RANDOM  
NT: OSI ROUTINE  
NT: OSI SENSITIVE POINTS  
NT: OSI TEAM  
NT: OSI TIMELINES  
NT: OSI ZONAL  
NT: TAGS  
RT: CW USE  
RT: PEACEKEEPING  
RT: SAFEGUARDS  
RT: S R SENSORS
- OSI CHALLENGE  
UF: Special Inspections  
UF: Suspect-Site inspections.  
SN: Involves discussion of special and suspect-site inspections.  
BT: OSI
- OSI E/E POINTS  
OSI Entry/Exit Points  
SN: Refers to discussion of those entry and exit points designated by a host state through which inspection teams are to arrive and depart.  
BT: OSI

- **OSI ESCORTS**  
SN: Refers to discussions related to those individuals who accompany on-site inspectors, and their responsibilities regarding inspection activities.  
BT: OSI
- **OSI FACILITY**  
SN: Refers to on-site inspection of specific facilities and buildings.  
BT: OSI
- **OSI MANAGED ACCESS**  
SN: Refers to discussions of the limitations placed on the access of on-site inspectors to the zones, facilities, or objects of verification.  
BT: OSI
- **OSI OBJECT**  
Object of Verification  
SN: Refers to on-site inspection of specified objects, including specified military units.  
BT: OSI  
RT: OSI SENSITIVE POINTS
- **OSI RANDOM**  
SN: Refers to on-site inspections that are requested without advance notice of the precise location.  
BT: OSI  
RT: MATH (for discussions of random statistical methods for determining OSI).
- **OSI ROUTINE**  
SN: Refers to discussion of regularly scheduled on-site inspections.  
BT: OSI
- **OSI SENSITIVE POINTS**  
SN: Refers to discussion of sensitive areas or instruments not related to a treaty's verification. Includes discussion of shrouding.  
BT: OSI  
RT: OSI OBJECT
- **OSI TEAM**  
SN: Refers to discussion of the size, composition and rights of on-site inspection teams; also includes discussion of the presence of observers.  
UF: Observers  
BT: OSI  
RT: PERSONNEL

- **OSI TIMELINES**  
SN: Refers to discussion of the period of time an inspection team may remain within a host country, and the timing of their activities. Also includes discussion of timelines for notifications related to OSI operations.  
BT: OSI
- **OSI ZONAL**  
SN: Refers to on-site inspection of designated zones or areas.  
BT: OSI
- **OST**  
Outer Space Treaty  
RT: SPACE
- **PACIFIC**
- **PAXSAT**  
SN: A Canadian research project concerning the feasibility of using satellites for arms control verification.  
BT: SATELLITE  
RT: ISMA
- **PEACEKEEPING**  
SN: Refers to peacekeeping forces and peace observation forces. Coverage focuses primarily on those documents that have relevance to the subject of verification.  
RT: OSI  
RT: CONTROL POSTS
- **PERSONNEL**  
SN: Refers to discussion of the personnel requirements of a verification system; includes training.  
RT: OSI TEAM  
RT: MANPOWER
- **PNE**  
Peaceful Nuclear Explosion  
BT: NW  
NT: PNET
- **PNET**  
Peaceful Nuclear Explosion Treaty  
BT: NW  
BT: PNE
- **PPM**  
Perimeter/Portal Monitoring  
RT: S R SENSORS  
RT: CONTROL POSTS

- **PRESSURE**  
 SN: Refers to the measurement of variances in pressure upon a surface as a method of verification.  
 RT: S R SENSORS  
 RT: R SENSORS
- **PROCESS SAMPLING**  
 SN: Refers to discussion of sampling procedures within a facility.  
 BT: SAMPLING
- **PRODUCTION**  
 SN: Refers to discussion of both open and clandestine production of weapons.  
 BT: NW  
 BT: BW  
 BT: CW  
 BT: CONVENTIONAL
- **PROLIFERATION**  
 SN: Refers to explicit discussion of the horizontal proliferation of conventional, chemical and nuclear weapons technologies.  
 BT: NW  
 BT: BW  
 BT: CW  
 BT: CONVENTIONAL  
 NT: NPT  
 RT: IAEA
- **PTBT**  
 Partial Test Ban Treaty  
 BT: NW  
 BT: NTBT  
 RT: SEISMIC
- **QUOTAS**  
 SN: Refers to inspection allotments or other agreed-upon procedures for delineating the number of verification activities within an agreement.  
 RT: STAT SAMPLING
- **Radiological Weapons**  
 USE: R WEAPON
- **RAD INTERROGATION**  
 Radioactive Interrogation  
 SN: Refers to the active bombardment of objects with gamma rays, alpha or beta particles, neutrinos, or other products of atomic fission, to determine the nature of the object to be verified or examined.  
 RT: S R SENSORS  
 RT: R SENSORS

- **RAD MONITORING**  
Radioactive Monitoring  
SN: Refers to all forms of passive sensing by means of detection of gamma rays, alpha or beta particles, or other indicators of the presence of nuclear materials, production or devices.  
RT: S R SENSORS  
RT: R SENSORS
- **RADAR**  
SN: Refers to the use of radar in verification activities.  
RT: S R SENSORS  
RT: R SENSORS
- **RADIONUCLIDES**  
SN: Refers to verification activities involving the detection of radionuclides.  
RT: S R SENSORS  
RT: R SENSORS
- **R&D**  
Research and Development  
SN: Refers to the research, development and/or testing of weapons technologies.  
UF: Testing
- **RECORDS MONITORING**  
SN: Refers to the review of confidential industrial or military records for purposes of verification.  
RT: COLLATERAL ANALYSIS  
RT; CONFIDENTIALITY  
RT: CONFIDENTIALITY INDUSTRIAL  
RT: MILITARY BUDGET  
RT: SAFEGUARDS
- **RECOVER**  
Remote Continuous Verification System  
SN: Developed by the IAEA  
BT: SAFEGUARDS
- **REDUCTION**
- **Regional Satellite Monitoring Agency**  
USE: ISMA
- **R SENSORS**  
Remote Sensors  
SN: Refers to the general use of sensors at a distance (over several hundred metres) from the target or activity being observed. Includes ground-based and ship-based sensors; airborne sensors and satellite sensors; includes radar; includes ocean surveillance (SOSUS).  
UF: National Technical Means



NT: AERIAL  
 NT: SAMPLING  
 NT: SATELLITE  
 NT: SEISMIC  
 RT: ACOUSTIC  
 RT: CHEMICAL  
 RT: ELECTRONIC  
 RT: GROUND  
 RT: HAND HELD  
 RT: HELICOPTER  
 RT: MAGNETIC  
 RT: LASER  
 RT: OPEN SKIES  
 RT: OPTICAL  
 RT: PRESSURE  
 RT: RADAR  
 RT: RAD INTERROGATION  
 RT: RADIONUCLIDES  
 RT: RAD MONITORING  
 RT: SHIP  
 RT: S R SENSORS  
 RT: UAV  
 RT: VIBRATION

**- R WEAPON**

Radiological Weapon

SN: Refers to those weapons which operate through the dissemination of radioactive materials or effects.  
 UF: Radiological Weapons  
 BT: NW  
 BT: WMD

**- S ASIA**

SN: Refers to the Indian sub-continent.

**- SAFEGUARDS**

SN: Refers to measures carried out by the IAEA to ensure that nuclear materials are not diverted for purposes other than those intended by the Non-Proliferation Treaty. It combines such techniques as the keeping of records and accounts of materials, periodic reports, physical protection of the material under question, and various means of surveillance.

BT: NW  
 RT: CONFIDENTIALITY COMMERCIAL  
 RT: IAEA  
 RT: OSI  
 RT: RAD MONITORING  
 RT: RECORDS MONITORING  
 RT: S R SENSORS  
 RT: VERIFICATION ORGANIZATION (National and International safeguard procedures and bureaucracies)  
 NT: RECOVER

- **SALT I**  
Strategic Arms Limitation Talks I  
RT: NW  
RT: SCC
- **SALT II**  
Strategic Arms Reduction Talks II  
RT: NW  
RT: SCC
- **SAMPLING**  
SN: Refers to the taking of samples.  
BT: R SENSORS  
BT: S R SENSORS  
NT: CONTROL POSTS  
NT: HUMAN SAMPLING  
NT: ENVIRONMENTAL SAMPLING  
NT: PROCESS SAMPLING
- **SATELLITE**  
SN: Refers to sensors used from satellites.  
BT: R SENSORS  
NT: PAXSAT  
NT: MEDIASAT  
NT: SATELLITE COMMERCIAL  
NT: ISMA  
RT: ASAT  
RT: SPACE
- **SATELLITE COMMERCIAL**  
SN: Refers to the use of SPOT and other commercial satellites for verification-related activities.  
BT: SATELLITE  
NT: MEDIASAT
- **SCC**  
Standing Consultative Commission  
SN: The consultative body established by the ABMT.  
BT: CONSULTATION  
RT: SALT I  
RT: SALT II
- **SE ASIA**  
Southeast Asia  
SN: Viet Nam, Laos, Thailand, Myanmar, Kampuchea.
- **Sea Bed Treaty**  
USE: NAVAL
- **Seals**  
USE: TAGS
- **SEISMIC**  
SN: Refers to discussions pertaining to the use of the science of seismology for verification purposes, and

discussions involving the interpretation of seismic data.

BT: NW  
 BT: S R SENSORS  
 BT: R SENSORS  
 RT: JVE  
 RT: TTBT  
 RT: NTBT  
 RT: LTBT  
 RT: PTBT  
 RT: CTBT

- SHIP

SN: Refers to discussion of ships as verification platforms.  
 RT: S R SENSORS  
 RT: R SENSORS

- SLCM

Sea Launched Cruise Missile

BT: NW  
 BT: CONVENTIONAL  
 BT: CRUISE

- SOUTH AMERICA

- SPACE

Outer Space

SN: Refers to verification activities relating to arms control agreements respecting outer space.

RT: ASAT  
 RT: SATELLITE  
 RT: ISMA  
 RT: OST

- Space Weapons

USE: NEW WEAPONS

(when discussing directed energy or particle weapons based in space)

USE: ASAT

(when discussing kinetic-kill weapons designed to harm satellites)

- Special Inspections

USE: OSI CHALLENGE

- S R SENSORS

Short Range Sensors

SN: Refers to sensing devices used at close ranges (ie. on the order of several hundred metres or less).

NT: PPM  
 NT: SEISMIC  
 NT: SAMPLING  
 RT: ACOUSTIC  
 RT: CHEMICAL  
 RT: CONTROL POSTS

RT: ELECTRONIC  
RT: GROUND  
RT: HAND HELD  
RT: HELICOPTER  
RT: LASER  
RT: MAGNETIC  
RT: OPTICAL  
RT: OSI  
RT: PRESSURE  
RT: RADAR  
RT: RADIONUCLIDES  
RT: RAD INTERROGATION  
RT: RAD MONITORING  
RT: R SENSORS  
RT: SAFEGUARDS  
RT: SHIP  
RT: TAGS  
RT: UAV  
RT: VIBRATION

- SSM  
Sinai Support Mission  
RT: MIDEAST
- START  
Strategic Arms Reduction Talks  
BT: NW
- STAT SAMPLING  
Statistical Sampling  
RT: QUOTAS  
RT: MATH
- STOCKPILING  
BT: NW  
BT: BW  
BT: CW  
BT: CONVENTIONAL
- Suspect-Site Inspections  
USE: OSI CHALLENGE
- SVC  
Special Verification Commission  
SN: The consultative body established by the INF  
Treaty.  
BT: CONSULTATION  
RT: INF
- TAGS  
SN: Refers to methods involving the use of identifying  
labels affixed to an object, or intrinsic identifying  
characteristics of the object itself (ie. "finger  
prints"). Also refers to methods to prevent or detect  
tampering with the contents of a container or access

through a portal (ie. seals).

UF: Seals

BT: OSI

RT: S R SENSORS

- Testing
  - USE: R&D
- **TELEMETRY**
  - SN: Refers to the verification methods involved in the monitoring of telemetry. Includes telemetry encryption.
  - RT: INTELLIGENCE
- **TRANSEAVER**
- **TTBT**
  - Threshold Test Ban Treaty
  - BT: NW
  - BT: NTBT
  - RT: SEISMIC
- **UAV**
  - Unmanned aerial vehicle
  - RT: S R SENSORS
  - RT: R SENSORS
- **UN**
  - United Nations
  - RT: IVO
- **UNGA**
  - United Nations General Assembly
- **UNSCOM**
  - United Nations Special Commission
  - SN: As established by UNSC Resolution 687.
  - RT: MIDEAST
- **UNSSOD**
  - United Nations Special Session on Disarmament
- **VERIFICATION DEFINITION**
  - SN: Refers to explicit discussion of the definition of verification.
- **VERIFICATION GENERAL**
  - SN: Refers to discussion of the general process of verification. NOTE: when discussion turns to the verification aspects of a specific agreement or issue area, use the keyword relevant to that agreement or issue area.

- **VERIFICATION HISTORY**  
SN: Refers to discussion of verification and issues before 1950.
- **VERIFICATION (COUNTRY)**  
SN: Refers to discussion of a particular country's attitude towards a verification problem or issue. NOTE: Also search under the country's name in the Bibliography.
- **VERIFICATION ORGANIZATION**  
SN: Refers to discussion of the bureaucratic framework involved in a verification process, or the organizational mechanics of a verification process. Includes discussion of logistics support.  
RT: NATIONAL AUTHORITY  
RT: SAFEGUARDS
- **VERIFICATION ORGANIZATION (COUNTRY)**  
SN: Refers to discussion of a particular country's bureaucratic or organizational machinery for verification.  
RT: NATIONAL AUTHORITY
- **VERIFICATION RESEARCH**  
SN: Refers to discussion of research into new verification methods, or the improvement of existing ones.
- **VERIFICATION RESEARCH (COUNTRY)**  
SN: Refers to discussion of a particular country's research into new verification methods, or the improvement of existing ones.  
RT: VERPROG
- **VERPROG**  
Verification Research Program, Department of Foreign Affairs and International Trade.  
RT: VERIFICATION RESEARCH (COUNTRY)
- **VIBRATION**  
SN: Refers to the detection and measurement of vibrations as a means of verification.  
RT: S R SENSORS  
RT: R SENSORS
- **WEU**  
Western European Union
- **WMD**  
Weapon of Mass Destruction  
NT: NW  
NT: BW  
NT: CW  
NT: R WEAPON  
NT: ENMOD

- YELLOW RAIN  
BT: BW  
RT: BTWC

# **SUBJECT INDEX**



## SUBJECT INDEX

This Subject Index has been provided to help with searches on a wide variety of subject. Abbreviations and acronyms have been used extensively in the selection of the keywords found below. Definitions of these keywords can be found by referring to the Thesaurus.

The numbers ("postings") which follow each keyword refer to the appropriate entries in the bibliography section of this Third Update. The keyword structure has been designed for computer searching using Boolean search strategies. Consequently, some keywords may have a large number of postings.

NOTE: A number of keywords have been added and refined as the database was updated; the user should keep this in mind when consulting this Update.

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