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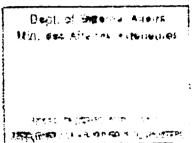


BIBLIOGRAPHY ON ARMS CONTROL VERIFICATION: FOURTH UPDATE



OCTOBER 1995





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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, <u>inter alia</u>,
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".

A follow-on Group of Experts on "Verification in All Its Aspects, Including the Role of the United Nations in the Field of Verification" was established pursuant to Resolution 48/68 of 16 December 1993 and completed its work in July 1995. Among several recommendations of that Group relating to verification databases was one that "the United Nations continue its work to develop a database of bibliographic references relating to literature on verification for public, research and training purposes, drawing on contributions from Member States".

Canada has played a particularly active role in the United Nations' consideration of the issue of "verification in all its aspects", including the studies conducted by both the 1990 and 1995 Groups 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 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

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

² UN Document, A/50/377, September 1995.

³ <u>Ibid</u>., Chapter VI.

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. A Third Update was published in 1994, and contained over 300 new entries.

The following report, entitled <u>Bibliography on Arms Control Verification: Fourth Update</u> continues to build upon the four previous bibliographies provided in 1991, 1992, 1993 and 1994. It has been prepared as a further Canadian contribution to the development of a United Nations data bank on verification and to assist governmental experts, negotiators and researchers in their work on verification matters.

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

ABSTRACT

This <u>Fourth Update</u> is a follow-on publication from earlier compilations of verification literature. The original was entitled <u>Bibliography on Arms Control Verification: 1962-1991</u>, published by External Affairs and International Trade Canada, and was followed by three updates in 1992, 1993 and 1994. Researchers are advised to consult all these bibliographies for a complete picture of the literature covered within the Verification Literature database.

The <u>Fourth Update</u> lists alphabetically over 400 documents related to verification added to the database after the publication of the <u>Third Update</u>. It generally covers new material received since the summer of 1994. 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 <u>Bibliography</u> on <u>Arms Control Verification: Fourth Update</u> 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 <u>Fourth Update</u> follows-on from the three earlier publications entitled:

- Bibliography on Arms Control Verification: 1962-1991,
- Bibliography on Arms Control Verification: Update,
- Bibliography on Arms Control Verification: Second Update, and
- <u>Bibliography on Arms Control Verification: Third Update.</u>

The <u>Fourth Update</u> generally covers material identified since the summer of 1994. Researchers should note that some documents dated before the summer of 1994 have also been included in the <u>Fourth Update</u>. Consequently, to ensure thorough coverage of the literature published before the summer of 1993, the <u>Fourth Update</u> as well as the previous four bibliographies should be consulted.

As was true for the earlier bibliographies, a variety of documents are covered in the <u>Fourth Update</u>. 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 <u>Fourth Update</u>. 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 <u>Fourth Update</u> -- confidence building, fact-finding, peacekeeping, transparency, and compliance -- that are included because of their focus on matters related to arms control verification. The 1995 UN Group of Experts Study on Verification has reinforced the linkages

¹ UN Document, A/50/377, September 1995.

between verification in arms control, confidence building and peacekeeping contexts. It should be noted however that such literature has been included only where it discusses in a substantive manner methods and processes of verification and compliance.

A variety of sources have been examined for this <u>Fourth</u> <u>Update</u>, which are listed below.

- <u>The Conference on Disarmament (CD), 1994-1995</u>: Plenary Working Papers up to September 1995 are covered in this <u>Fourth Update</u>.
- United Nations publications: Apart from its operational verification activities in the context of peacekeeping, 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 in this bibliography 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), as well as UNSCOM inspection and fact-finding reports.
- 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.
- <u>National Governments</u>: Canadian, and to some extent American governmental publications have been covered in the <u>Fourth Update</u>.
- <u>Academic Publications</u>: The <u>Fourth Update</u> 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.
- <u>International Treaties and Agreements</u>: The texts of international treaties and agreements have <u>not</u> been covered by the <u>Fourth Update</u>.

Arrangement

As for the four earlier bibliographies, the entries contained in the <u>Fourth Update</u> 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 a 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:

224. Kay, David A. "Denial and Deception Practices of WMD Proliferators: Iraq and Beyond", THE WASHINGTON QUARTERLY. Vol. 18, No. 1, Winter 1995.

SUBJECT KEYWORDS: Interference; Proliferation; WMD; NW; Export Controls.

Access

The <u>Fourth Update</u> 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 <u>Subject Index</u> 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 <u>Fourth Update</u> 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

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 <u>Scope Note</u> defines a term or describes its scope.

EG. SLCM SN: Sea Launched Cruise Missile

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

BROADER TERM (BT): A <u>Broader Term</u> 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 <u>Narrower Term</u> 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 $\underline{\text{USE}}$ 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 <u>Used For</u> is the reciprocal of <u>USE</u>.

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.

The keywords in this Thesaurus describe a variety of issues: verification methods, the process of verification and compliance, geographic areas, and objects of verification (treaties, other agreements or decisions, types of equipment or activities). 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 <u>Fourth Update</u>.

- 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 sensors for verification.

RT: R SENSORS RT: S 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: R SENSORS

RT: S R SENSORS

- ALCM

Air Launched Cruise Missile

BT: CONVENTIONAL

BT: CRUISE

BT: NW

- 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: ABM

RT: SATELLITE

RT: SPACE

- AZERBAIJAN

SN: Refers to conflict management activities in the

region of Azerbaijan.

RT: sfSU

- 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

- BMD

Ballistic Missile Defence

RT: DEW

- BTWC

Biological and Toxins Weapons Convention

BT: BW

RT: YELLOW RAIN

- BW

Biological Weapon

BT: WMD

NT: BTWC

NT: CONVENTIONAL WMD

NT: DESTRUCTION

NT: MISSILE

NT: PRODUCTION

NT: PROLIFERATION

NT: STOCKPILING

NT: YELLOW RAIN

- 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

CIVILIAN MILITARY

SN: Refers to technologies/weapons systems which are applicable in both a military and a civilian

UF: Dual Use

- Citizen Reporting USE: NPPI

- Citizen Verification USE: NPPI

- COLLATERAL ANALYSIS

SN: Refers to analysis of open literature (eq. journals and newspapers) for verification purposes, including budgetary analysis and literature reviews.

UF: Literature Review

RT: INFO EXCH RT: INTELLIGENCE RT: MILITARY BUDGET RT: RECORDS MONITORING

COMINT

USE: ELECTRONIC

- 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: INTELLIGENCE

RT: LEGALITY

RT: RECORDS MONITORING

- CONFIDENTIALITY COMMERCIAL

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

BT: CONFIDENTIALITY

RT: CWC

RT: RECORDS MONITORING

RT: SAFEGUARDS

- CONSULTATION

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

UF: Complaints Procedures

NT: JCG NT: SCC

NT: SVC

- CONTROL POSTS

UF: Observation Posts

BT: OSI

BT: SAMPLING

RT: PEACEKEEPING

RT: PPM

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: ALCM

NT: CRUISE

NT: DESTRUCTION

NT: MISSILE

NT: PRODUCTION

NT: PROLIFERATION

NT: SLCM

NT: STOCKPILING

RT: CFE RT: MBFR

- CONVENTIONAL WMD

SN: Refers to discussion of dual-capable (conventional

and weapons of mass destruction) weapons.

UF: Dual Use

BT: BW

BT: CONVENTIONAL

BT: CW

- 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.

- COOP MONITORING

Cooperative Monitoring

SN: Refers to the collecting, analyzing and sharing of information among parties to an agreement on an open and equal basis.

- COST

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

- CRUISE

Cruise Missiles

BT: CONVENTIONAL

BT: NW
NT: ALCM
NT: SLCM
RT: MISSILE

- CSCE

Conference on Security and Cooperation in Europe

RT: CBM RT: OSCE

- CTBT

Comprehensive Test Ban Treaty

BT: NTBT BT: NW

RT: SEISMIC

- CUTOFF

Fissionable Material Cutoff

SN: Refers to the ban on the production of fissile materials for nuclear weapons or other explosive

purposes.

BT: NW RT: IAEA

- CW

Chemical Weapons

UF: Binary Weapons

BT: WMD

NT: CONVENTIONAL WMD

NT: CWC NT: CWFZ

NT: CW USE

NT: DESTRUCTION

NT: MISSILE

NT: PRODUCTION

NT: PROLIFERATION

NT: STOCKPILING

- 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

- DATA MANAGEMENT

SN: Refers to discussion of data management

technologies, infrastructures and methodologies

for the purpose of verification.

RT: INFO EXCH

- DESTRUCTION

SN: Refers to the destruction of weapons.

BT: NW BT: BW

BT: CONVENTIONAL

BT: CW

RT: DISPOSITION

- DEW

SN: Refers to discussion of directed energy weapons technologies (eg. lasers, particle weapons, etc.).

UF: Space Weapons

RT: BMD

- DISPOSITION

SN: Refers to discussion of the vitrification or

recycling of fissile materials.

RT: DESTRUCTION

- Dual Use

USE: CIVILIAN MILITARY
USE: CONVENTIONAL WMD

- DMZ

Demilitarized Zones

RT: CWFZ RT: NWFZ

- 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.

UF: COMINT
UF: ELINT
UF: SIGINT
RT: R SENSORS
RT: S R SENSORS

- ELINT

USE: ELECTRONIC

- EMBARGOES

SN: Refers to UN and other internationally sanctioned embargoes.

UF: Sanctions

- 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 in areas outside of facilities.

BT: SAMPLING

- EUROPE

- Game Theory

USE: MATH

- EXPORT CONTROLS

RT: NSG

- EXPORT CONTROLS (COUNTRY)

- FACT FINDING

SN: Refers to non-intrusive collection and analysis of data, often through such measures as the exchange or collection of information, consultative inquiries, and OSI.

RT: OSI

- GCD

General and Complete Disarmament

- GROUND

SN: Refers to detailed discussion of the nature of and challenges inherent in ground-based sensors.

RT: R SENSORS RT: S R SENSORS

- HAND HELD

SN: Refers to verification activities involving the use of hand-held sensors.

RT: R SENSORS RT: S R SENSORS

- HELICOPTER

SN: Refers to discussion of helicopters as platforms for aerial sensors.

RT: R SENSORS RT: S R SENSORS

- HUMAN SAMPLING

SN: Refers to verification techniques involving the sampling of human blood and tissue.

- IAEA

International Atomic Energy Agency

RT: CUTOFF RT: NW

RT: PROLIFERATION 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

RT: DATA MANAGEMENT

- INFRASOUND

SN: Refers to the use of sound frequencies between a 10th of a Hertz and 10 Hertz, below human hearing, for verification purposes.

- 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: CONFIDENTIALITY

RT: TELEMETRY

- INTERFERENCE

SN: Refers to interference with verification efforts, both passive (concealment and deception) and active (jamming). Includes discussion of seismic decoupling techniques.

RT: COMPLIANCE

- IRAQ

- ISMA

International Satellite Monitoring Agency

UF: Regional Satellite Monitoring Agency

BT: SATELLITE

RT: IVO RT: PAXSAT RT: SPACE

- IVO

International Verification Organization

RT: ISMA RT: UN

- 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

- KOREA

SN: Refers to both the Republic of Korea and the Democratic Peoples Republic of Korea.

RT: NE ASIA

- LASER

SN: Refers to the use of lasers as a means of

verification.

RT: R SENSORS RT: S 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: SEISMIC

- MAGNETIC

SN: Refers to the measurement of magnetic anomalies

and other magnetic phenomenon.

RT: R SENSORS RT: S 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: OSI RANDOM 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: COLLATERAL ANALYSIS

RT: INFO EXCH

RT: RECORDS MONITORING

- MINES

RT: INHUMANE WEAPONS

- MISSILE

SN: Refers to discussion of ballistic missiles.

BT: BW BT: CW

BT: CONVENTIONAL

BT: NW

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 by a signatory nation respecting the Chemical Weapons Convention.

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, the Soviet Far East, and Japan.

RT: KOREA

- 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.

UF: Citizen reporting
UF: Citizen verification
UF: Societal Verification

- 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

BT: WMD

NT: ALCM

NT: CONVENTIONAL WMD

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: PTBT

NT: PROLIFERATION

NT: R WEAPON

NT: SAFEGUARDS

NT: SEISMIC

NT: SLCM

NT: STOCKPILING

NT: TTBT

RT: AIRCRAFT

RT: ENMOD

RT: IAEA

RT: INF

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

- OSCE

Organization for Security and Cooperation in Europe

SN: Refers to discussion of the organization which superseded the CSCE in December 1994, as it pertains to verification.

RT: CSCE

- 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: FACT FINDING RT: PEACEKEEPING RT: SAFEGUARDS

RT: S R SENSORS

- OSI CHALLENGE

SN: Involves discussion of special and short-notice suspect-site inspections.

UF: Special Inspections

UF: 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 requested on the basis of statistical and random sampling methodologies or procedures.

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 the handling 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

- Outer Space Treaty

USE: OST

- 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: CONTROL POSTS

RT: OSI

- PERSONNEL

SN: Refers to discussion of the personnel requirements of a verification system; includes training.

RT: MANPOWER RT: OSI TEAM

- PNE

Peaceful Nuclear Explosion

BT: NW NT: PNET

- PNET

Peaceful Nuclear Explosion Treaty

BT: NW BT: PNE

- PPM

Perimeter/Portal Monitoring

RT: CONTROL POSTS RT: S R SENSORS

- PRESSURE

SN: Refers to the measurement of variances in pressure upon a surface as a method of verification.

RT: R SENSORS RT: S R SENSORS

- PROCESS SAMPLING

SN: Refers to discussion of sampling procedures for verification purposes within an active facility.

BT: SAMPLING

- PRODUCTION

SN: Refers to discussion of both open and clandestine production of weapons.

BT: BW BT: CW

BT: CONVENTIONAL

BT: NW

- PROLIFERATION

SN: Refers to explicit discussion of the horizontal and vertical proliferation of conventional weapons and weapons of mass destruction.

BT: BW

BT: CONVENTIONAL

BT: CW
BT: NW
NT: NPT
RT: IAEA

- PTBT

Partial Test Ban Treaty

BT: NTBT

RT: SEISMIC

- QUOTAS

SN: Refers to inspection allotments or other agreedupon 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 industrial or military records for purposes of verification.

RT: COLLATERAL ANALYSIS

RT: CONFIDENTIALITY

RT: CONFIDENTIALITY INDUSTRIAL

RT: MILITARY BUDGET

RT: SAFEGUARDS

- RECOVER

- REDUCTION

- Regional Satellite Monitoring Agency USE: ISMA

- R SENSORS

Remote Sensors

SN: Refers to the general use of sensors at a distance (greater than 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.

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: RADIONUCLIDES

RT: RAD INTERROGATION

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

- SALT I

Strategic Arms Limitation Talks I

RT: NW RT: SCC RT: START

- SALT II

Strategic Arms Reduction Talks II

RT: NW RT: SCC RT: START

- SAMPLING

SN: Refers to the taking of samples.

BT: R SENSORS BT: S R SENSORS NT: CONTROL POSTS

NT: ENVIRONMENTAL SAMPLING

NT: HUMAN SAMPLING NT: PROCESS SAMPLING

- Sanctions

USE: EMBARGOES

- SATELLITE

SN: Refers to sensors used from satellites.

BT: R SENSORS

NT: ISMA

NT: MEDIASAT

NT: PAXSAT

NT: SATELLITE COMMERCIAL

RT: ASAT RT: SPACE

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: R SENSORS

BT: S R SENSORS

RT: CTBT

RT: JVE

RT: LTBT

RT: NTBT

RT: PTBT

RT: TTBT

- sfSU

SN: Refers to discussion of states of the former Soviet Union; Russia, Belarus, Ukraine, Georgia,

Azerbaijan, Armenia, Turkmenistan, Uzbekistan,

Tajikistan, Kyrgyzstan, Kazakhstan.

RT: AZERBAIJAN

- SHIP

SN: Refers to discussion of ships as verification

platforms.
RT: S R SENSORS
RT: R SENSORS

- Shrouding

USE: OSI SENSITIVE POINTS

- SIGINT

USE: ELECTRONIC

- SLCM

Sea Launched Cruise Missile

BT: NW

BT: CONVENTIONAL

BT: CRUISE

- Societal Verification

USE: NPPI

- 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: DEW

(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: SAMPLING NT: SEISMIC 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: PPM

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 RT: SALT I RT: SALT II

- STAT SAMPLING

Statistical Sampling

RT: MATH RT: QUOTAS

- STOCKPILING

BT: BW BT: CW

BT: CONVENTIONAL

BT: NW

- 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

- VERIFICATION SYNERGY

- VERPROG

Verification Research Program, Department of Foreign Affairs and International Trade Canada.

RT: VERIFICATION RESEARCH (COUNTRY)

- VIBRATION

SN: Refers to the detection and measurement of vibrations as a means of verification.

RT: R SENSORS RT: S R SENSORS

- WEU

Western European Union

- WMD

Weapon of Mass Destruction

NT: BW
NT: CW
NT: ENMOD
NT: NW

NT: R WEAPON

- 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 subjects. 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 the <u>Fourth Update</u>. 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 <u>Update</u>.

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