

## General literature overview

This list contains some of the widely-used literature in regard to nuclear disarmament verification. In preparation for the block seminar and the Oslo exercise, **the underlined literature will be obligatory to read** while some parts will remain optional for deeper understanding. Reading the literature will be necessary in order to enable your successful participation both in the block seminar and later-on in the simulation exercise.

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International Panel on Fissile Materials, **Global Fissile Material Report 2009: A Path to Nuclear Disarmament**, 2009. Freely available from [http://fissilematerials.org/library/2009/10/global\\_fissile\\_material\\_report\\_3.html](http://fissilematerials.org/library/2009/10/global_fissile_material_report_3.html).

- Chapter 2 surveys some of the challenges to eliminating nuclear weapons in a world where nine states have nuclear weapons and increasing numbers of others are acquiring the capability to produce them. A central issue is whether nuclear disarmament is to be pursued through a series of agreed steps laid out in advance in some kind of framework treaty or by continuing the step-by-step approach that emerged during the Cold War and continues today. There is also inevitably the question of reversibility. **[must be read until the block seminar]**
- Chapter 5 reviews procedures and technologies for verifying warhead disarmament. Therefore it discusses the verification of declarations on deployed and stored warheads and components, as well as methods for their identification, containment & surveillance. **[must be read until the block seminar]**

National Academy of Sciences, **Monitoring Nuclear Weapons and Nuclear-Explosive Materials: An Assessment of Methods and Arms Control**, 2005. Freely available from [http://www.nap.edu/catalog.php?record\\_id=11265](http://www.nap.edu/catalog.php?record_id=11265).

Chapter 1 gives a good introduction into the topic and the historical perspectives. Chapter 2 reviews demands on procedures of nuclear weapon declarations and stocks, whether for the benefit of verification, or for the security of the declaring state. The study additionally addresses the verification of weapon elimination, remanufacturing and assembly. Therefore techniques necessary for the monitoring are introduced, inter alia the concept of information barriers using the template or attribute approach.

Nicholas Zarimpas, **Transparency in Nuclear Warheads and Materials: The political and technical dimensions**, 2003.

Comprehensive volume with a focus on transparency divided into one political and one technical portion. Chapter 1 provides a good introduction into the topic. This volume explores the perspectives of the United States, Russia, the U.K., France, and China on increasing transparency about their nuclear weapons and fissile-material stocks, and the different means and procedures that are being used and have been proposed to help create a verification regime for warheads and materials that can contribute to deeper and irreversible nuclear reductions.

Corey Hinderstein, **Cultivating Confidence: Verification, Monitoring, and Enforcement for a World Free of Nuclear Weapons**, 2010.

This edited volume focuses on the technical, political, and diplomatic issues involved in achieving the Nuclear Threat Initiative's Nuclear Security Project goal of a world free of nuclear weapons. In eleven chapters authored by international experts, the content offers new (2010) ideas regarding challenges and strategies for verification, monitoring, and enforcement on the path to that goal. For instance, chapters discuss expanding the number of nations involved in disarmament efforts; making the classified information required to enhance a verification regime available; creating a global environment to improve compliance with legal obligations or commitments; and developing a systems-based approach to verification.

→ Fuller, James (2010). "Going to Zero: Verifying Nuclear Warhead Dismantlement", pp. 123–160. **[must be read until the exercise in Oslo]**

David Cliff et al., **Verifying Warhead Dismantlement: Past, present, future**, 2010. Freely available from <http://www.vertic.org/media/assets/Publications/VM9.pdf>.

The Report gives an overview on all major past disarmament verification research initiatives including the UK-Norway-Initiative. It builds on VERTIC's three-year involvement with the so-called UK-Norway Initiative to investigate some of the issue involved in the verification of nuclear warhead dismantlement.

International Panel on Fissile Materials, **Global Fissile Material Report 2006: Developing the technical basis for policy initiatives to secure and irreversibly reduce stocks of nuclear weapons and fissile materials**, 2006. Freely available from <http://fissilematerials.org/library/gfmr06.pdf>.

Chapter 1 provides helpful information on nuclear weapons to better understand the object to be verified.

The Wall Street Journal, George P. Shultz, William J. Perry, Henry A. Kissinger and Sam Nunn, **Op-eds/Statements**. Freely available from <http://www.nuclearsecurityproject.org/publications/wall-street-journal-op-eds>.

In four influential op-eds, published in The Wall Street Journal and linked on the website above, this group of former high-level politicians describes their vision of a world without nuclear weapons and the steps to get there.

**More information on available literature:** <http://disarmament-verification.org/biblio>