



Assistance in Implementing Appropriate Effective Physical Protection Measures for UNSCR 1540

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Outline

- UNSCR 1540 requirements and recommendations related to States' physical protection regimes
- USDOE/NNSA Office of International Regimes and Agreements program of multilateral and bilateral technical assistance and collaboration in physical protection
- General invitation to present and discuss specific requests for assistance related to UNSCR 1540



UNSCR 1540 Requirements

S/RES/1540 (2004)



3. Decides also that all States shall take and enforce effective measures to establish domestic controls to prevent the proliferation of nuclear, chemical, or biological weapons and their means of delivery, including by establishing appropriate controls over related materials and to this end shall:
 - (b) Develop and maintain appropriate effective physical protection measures;



UNSCR 1540 Requirements S/RES/1540 (2004)



7. Recognizes that some States may require assistance in implementing the provisions of this resolution within their territories and invites States in a position to do so to offer assistance as appropriate in response to specific requests to the States lacking the legal and regulatory infrastructure, implementation experience and/or resources for fulfilling the above provisions;



U.S. Nuclear Non-Proliferation Act of 1978



- U.S. assistance to IAEA Member States in physical protection is codified in law, in the Nuclear Nonproliferation Act (NNPA) of 1978
 - Sec. 202: DOE, in consultation with NRC, “shall establish and operate a safeguards and physical security training program to be made available to persons from nations and groups of nations which have developed or acquired, or may be expected to develop or acquire, nuclear materials and equipment for use for peaceful purposes”
- The initial instance of this assistance in physical protection was conducted that same year
 - The International Training Course on the Physical Protection of Nuclear Facilities and Materials (ITC)



ITC Today

- 3-week course, conducted by DOE/SNL, in English, in Albuquerque (USA) every 18 months
- Target audience is States' nuclear regulators, operators, and carriers
- Focus is teaching the principles of a performance-based design and evaluation of physical protection system
- Format includes expert lectures, subgroup exercises, field trips, and national presentations
- Conducted in cooperation with the IAEA Office of Nuclear Security
- ITC-21 will be offered April 19 – May 8, 2009 for 42 IAEA Member State participants



Multilateral Assistance

- U.S. collaborates with the IAEA/NSNS in providing support to Member States:
 - DOE/NNSA Office of International Regimes and Agreements physical protection program
 - Development and presentation of training courses and workshops
 - Development of Nuclear Security Series of guidance documents
 - Participant and/or leader of International Physical Protection Advisory Service (IPPAS) missions



Bilateral Assistance

- U.S. collaborates with Member States in physical protection topics of mutual interest:
 - DOE/NNSA Office of International Regimes and Agreements physical protection program
 - Training courses and workshops
 - Technical visits and consultations
 - Consistent with INFCIRC/225/Rev.4



Current Assistance Topics

- Current bilateral and multilateral subjects:
 - ITC and Regional and National Training Courses on Physical Protection of Nuclear Materials and Nuclear Facilities
 - Design basis threat process
 - Vital area identification
 - Facility protection
 - Transport security
 - Sabotage mitigation
 - Insider protection
 - Vulnerability assessment methodologies



Future Assistance Topics

- More of the same, plus additional topics:
 - Detection and delay security component performance testing and testbeds
 - Response force training and exercises
 - Workshops and seminars for international instructors
 - CPPNM/A obligations and the Fundamental Principles as the basis for appropriate effective physical protection measures
 - Implementation of INFCIRC/225/Rev.5 and other Nuclear Security Series recommendations
 - Physical protection system design methodologies and consultations
 - Physical protection system evaluation methodologies and consultations
 - Nuclear material transport security



Assistance Models/Options

- Support from the U.S. provided in cooperation with, or facilitated by, the IAEA Office of Nuclear Security
- Assistance provided under auspices of bilateral agreement between U.S. Department of Energy and Member State
- Choice of option is at the discretion and preference of the Member State, subject to concurrence and approval by DOE



Summary

- UNSCR 1540 invites States to provide assistance to other States for implementing appropriate effective physical protection measures
- U.S. has been providing assistance to States for 30 years and plans to continue with outreach and in response to specific requests
- Many physical protection topics will be subjects of future multilateral and bilateral collaboration with the U.S. Department of Energy
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