International Physical Protection Advisory Service (IPPAS)

Technical Meeting on Peer Reviews and Advisory Services in the Areas of Nuclear Safety and Security

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IPPAS Essentials

• Board of Governors in 1995 requested the secretariat to provide advisory service to assist States, upon request, with an appraisal of their national systems for physical protection
• First IPPAS mission was conducted in 1996
• IPPAS mission is not an inspection
• IPPAS activities include national workshop, preparatory meeting, the mission, and follow-up assistance.
IPPAS Objectives

• IPPAS mission objectives
  – Review/compare State Physical Protection Regime and Security Systems for Nuclear and other radioactive material & associated facilities and activities against international legal instruments and IAEA Nuclear Security Series (NSS)
  – Assist Member States and operators to implement requirements and recommendations from international instruments and IAEA NSS publications
  – Identify good practices that could be (anonymously) communicated to other Member States for long-term improvement
IPPAS Mission Scope

• State level
  – Institutional framework of nuclear security
  – Legislation and regulation
  – Threat assessment
  – Role of competent authorities
  – Regulatory functions

• Operator level
  – Security management
  – Implemented detection, delay and response measures
IPPAS Process

AWARENESS AND Informal Consultations

Formal Request

Preparatory Meeting

IPPAS Mission

Final Mission Report

Follow-up activities

IPPAS WORKSHOPS

IPPAS mission report is treated by IAEA as Highly Confidential
IPPAS Guidelines

• General Part
• Module 1: National Review of Nuclear Security Regime for Nuclear Material and Nuclear Facilities
• Module 2: Nuclear Facility Review
• Module 3: Transport Review (for nuclear Material)
• Module 4: Review of Security of Radioactive Material, Associated Facilities and Associated Activities
• Module 5: Information and Computer Security Review
• Module 6 (draft): Nuclear Material Accounting and Control (to be edited into SVS-29)
Basis for IPPAS advice

• Recommendations
  – The CPPNM & its 2005 Amendment
  – The Code of Conduct on Safety and Security of Radioactive Sources
  – NSS No. 20 - Nuclear Security Fundamentals
  – Nuclear Security Recommendations
  – NSS No.13 - Physical protection of Nuclear Material and Nuclear Facilities (INFCIRC/225/Rev.5)
  – NSS No.14 - Security of Radioactive Material and Associated facilities

• Suggestions
  – IAEA Nuclear Security Series Implementing Guides and Technical Guidance relevant for material and facilities under regulatory control
Recent Usage and Future Requests

- 2017 – Hungary, China, Germany, Lithuania, Australia, DR Congo
- 2018 – Ecuador, France, Switzerland, Japan
- 2019 – Lebanon, Belgium, Madagascar, Uruguay, Paraguay
- 2020 – Senegal, Czech Republic, Turkey
- 2021 – Finland, Burkina Faso, Romania (more may come)
90 missions (including 21 follow-ups) were conducted in 54 countries since 1996

More than 240 experts from 40 countries involved
Recent improvements in IPPAS

• Further increase of the pool of experts
  – International Workshops on IPPAS for Potential Team Members in 2017 and 2019
• Update of IPPAS Good Practice Database
• Development of guidance on IPPAS Self-assessment (expected to be published in 2021)
• Updated workshop materials for international and national IPPAS workshops
Lessons Learnt and Feedback from Member States

• International Seminars to Share Experience and Best Practices from Conducting International Physical Protection Advisory Service Missions are regularly held to share experience among Member States and gather feedback on the service
• An essential feature of IPPAS is the availability, upon request, of IAEA follow-up assistance, such as training, technical support and more targeted assessments of various elements of national nuclear security regime
Recommendations received

- Member States recommendations were
  - Establishment and updating IPPAS Good Practice database
  - More practical elements on the national workshops on IPPAS
  - Development of an E-learning tool for team members
  - Systematic analysis of and follow up to the recommendations, suggestions provided during IPPAS missions
  - Development of IPPAS Self-assessment Guidelines
  - Development of new IPPAS modules
Linkage with other Services

- IPPAS is complementary with INSServ
- RISS promotes IPPAS activities
- IPPAS should be a pre-condition for INIR Phase 2 and 3 missions
- IPPAS is complementary with IRRS
- IPPAS is complementary with OSART
Conclusion

- IPPAS is widely recognized as a service providing in-depth evaluation of State’s nuclear security regime and helping to improve it.
- IPPAS provides basis for development of a comprehensive programme to enhance nuclear security at the State and facility levels.
- Essential in addressing sustainability and in promoting of nuclear security culture.
- IPPAS facilitates an implementation of the IAEA Nuclear Security Series guidance and through that adherence to the CPPNM 2005 Amendment.
- It is an important tool to build confidence within the international community and the general public with regard to the effectiveness of national nuclear security regimes.
- An essential feature of IPPAS is the availability, upon request, of IAEA follow-up assistance, such as training, technical support and more targeted assessments of various elements of national nuclear security regime.
Thank you

https://www.iaea.org/services/review-missions/calendar