



2nd JAPAN-IAEA Workshop on Advanced Safeguards Technology for the Future Nuclear Fuel Cycle

10–13 November 2009
Tokai-mura, Ibaraki, Japan

In cooperation with the
International Atomic Energy Agency (IAEA)

Hosted by the
Japan Atomic Energy Agency (JAEA)

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[Presentations \(ZIP file\)](#)

Announcement

PROPOSED TOPIC AREAS

- Current Status and Future Prospects of Developing Safeguards Technologies for Nuclear Fuel Cycle Facilities**
 Department of Safeguards Long-Range Strategic Plan
 Next Generation Safeguards Initiative (NGSI)
 Instrument Development for Meeting Future Safeguards Technical Specifications
- Technology and Instrumentation Needs**
 Safeguards Technology Development Strategy
 Authorization of Safeguards Equipment
 Current and Future Requirements for Safeguards Technologies
- Advanced Safeguards Technologies**
 Measurement, Sensor and Analytical Technologies (NDA technologies for verification of fuel, Rokkasho on-site laboratory, nuclear reference materials for improvement of DA)
 Unattended Process Monitoring Systems (data specification, acquisition, transmission and evaluation)
 Improvement of Burn-up Codes Accuracy
 Containment and Surveillance Technologies
 Advanced Safeguards Approaches (concepts in the context of State-level safeguards considerations)
- Guidelines on Developing Instrumentation to Lead the Way for Implementing Future Safeguards**
 Joint Planning of Installation during Facility Design Phases
 Guidance for Designers and Operators
 Joint Use of Equipment (authentication, technical specification of shared equipment, integrity, independent data access, etc.)
 International Cooperation for R&D and Implementation of Equipment
 Information Security
 Remote Data Transmission (authenticity, encryption, vulnerability, etc.)
- Experiences and Lessons Learned**
 Experience at Advanced Nuclear Fuel Cycle Facilities
 Experience in Joint Use of Equipment
 Experience in Cooperation with Facility Operators and State Authorities
 Panel Discussion

OBJECTIVE

This international workshop will address issues and technologies associated with safeguarding the future nuclear fuel cycle. The workshop will discuss issues of interest to the safeguards community, facility operators and State Systems of accounting and control of

nuclear materials.

AUDIENCE

This workshop will be of interest to individuals and organizations concerned with future nuclear fuel cycle technical developments and safeguards technologies. This includes representatives from the nuclear industry, R&D organizations, safeguards inspectorates, State systems of accountancy and control, and Member States Support Programmes.

PAPERS

Presentations and accompanying papers are invited from participants on any of the outlined topic areas. The number of presentations will be limited to allow adequate time for discussions. Papers are to be presented orally.

REGISTRATION

There is no registration fee. Please register via the workshop web site:
<http://www-pub.iaea.org/MTCD/Meetings/Announcements.asp?ConfID=39029>

KEY DEADLINES

Final registration: **30 September 2009**
Submission of synopsis(300 words): **15 September 2009**
Submission of Power Point presentations: **15 October 2009**
Submission of paper for the workshop proceedings:**17 December 2009**

LANGUAGE

The conference language will be English.

Scientific Matters and Paper Submission

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Participation and Administrative Matters

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(For Japanese participants only)

Schedule of Events

10 November Participation registration · Opening addresses · Special announcements · Invited papers · Presentations

11 November Presentations · Reception

12 November Final session - Official closing

13 November Optional half day tour to:

Clean Laboratory for
Environmental Analysis
and Research (CLEAR)

Japan Proton Accelerator
Research Complex (J-PARC)