



Establishing a Nuclear Safety Infrastructure

GNSSN Plenary Meeting

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- **RegNet**
 - Embarking Countries Portal
 - Regulatory Cooperation Forum (RCF)

- **Highlights of Activities – supporting the development of safety infrastructure in the regulatory area**



🏠 Nuclear Safety & Security

▼ Safety & Security Framework

Capacity building

▼ Infrastructure

Safety

International Seismic Safety Centre

▶ Technical Areas

▶ Services for Member States

▶ Safety & Security Publications

▶ Conventions & Codes

▶ Education & Training

▶ Meetings

▶ Special projects

Good 4 3 2 1 0 Poor

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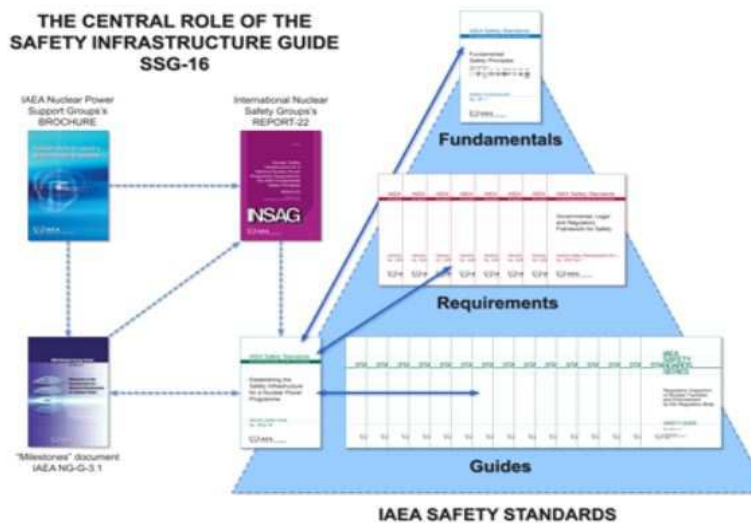
Establishing the Safety Infrastructure

Safety Guide on establishing the safety infrastructure for a nuclear power programme (SSG-16)

A nuclear power programme is a major undertaking requiring careful planning, preparation and a major investment in time and human resources. While nuclear power is not unique in this respect, it is different from other energy sources in the issues associated with the possession and handling of radioactive materials, the long time commitment to ensuring safety after the decommissioning of a nuclear power programme has been made.

Embarking Countries Platform on RegNet

THE CENTRAL ROLE OF THE SAFETY INFRASTRUCTURE GUIDE SSG-16



Resources

Regulatory Infrastructure

Integrated Regulatory Review Services (IRRS)

Nuclear Installation Safety

Related Links

Introductory Workshop on Establishing a Safety Infrastructure

Supporting the Introduction of Nuclear Energy (ARCAL XCV)

Workshop on Capacity Building and Infrastructure

Safety Packages

Basic Professional Training Course in Nuclear Safety

Module 1- Governmental, Legal





Embarking Countries Portal



- RegNet Structure
- RegNet Calendar
- Embarking Countries**
- Cooperation among Regulators
- Regional Regulatory Networks
- Thematic Regulatory Networks
- Member States Area (NNRP)
- Regulatory Peer Review Services
- Regulatory Competence Management
- Conventions

Embarking Countries on Nuclear Power Programmes



IAEA mechanisms in establishing an independent and competent Regulatory Body in support of the development of a nuclear safety infrastructure for a nuclear power programme

Many countries without nuclear power plants are expressing interest for nuclear power. Safety is one of the prerequisites for such development. Newcomers should, therefore, timely launch a comprehensive process in order to develop a suitable nuclear safety infrastructure and ensure that their nuclear power programme fully complies with international safety standards.

Crucial to the long term success of a nuclear energy programme is the establishment of an independent and competent regulatory body. The confidence of the public and the international community depends to a large extent on effective regulation. The need for a competent and effective regulatory body must, therefore, be understood and given highest priority.

Requests for assistance for strengthening the regulatory capabilities of countries embarking on nuclear power have significantly increased and the means to provide this assistance has become more distributed through a variety of delivery mechanisms:

- The IAEA Safety Guide SSG-16 provides a road map for applying the IAEA Safety Standards during the three phases of a nuclear power programme development. The Safety packages based on SSG-16, outline 11 Thematic Modules, following and merging the 20 elements outlined in the guide. Each module can be applied through training workshops. A comprehensive catalogue of workshops, including their scope and syllabus has been developed and has been included as part of the safety package for Module 1- Legal Governmental and Regulatory Framework for Safety. The workshops are in different stages of development.
- The IRIS (Integrated Review of Infrastructure for Safety) tool has been developed specifically to support self-assessment of national infrastructure for safety against the IAEA safety guide SSG-16. Through regional or national workshops, countries may receive training on how to best conduct the self-assessment using IRIS and are further supported by the IAEA to realize the actual self-assessment.
- Networks such as the Regulatory Cooperation Forum support embarking countries to develop effectively independent and robust nuclear safety regulators. The forum brings together provider countries (IAEA Member States with advanced nuclear power programmes) and observers (International Organizations) with receiving countries (IAEA Member States committed to developing a nuclear power programme) for a unique exchange of experience in developing a nuclear power

<http://gnssn.iaea.org/regnet/Pages/structure.aspx>



<http://gnssn.iaea.org/regnet/embarking/Pages/default.aspx>



Collaboration Areas for the Development of Material

Collaboration Areas for the Development of Material (Restricted)

Exemplary Workshop Material Development Site

- Strengthening the Regulatory Capabilities for Countries Embarking on Nuclear Power
- EC-IAEA "Cooperation in the Field of Nuclear Safety" Identifying Safety and Regulatory Implications from the Fukushima Daiichi Accident on IAEA Safety Standards and Safety Services
- Integrated Nuclear Infrastructure Review Missions
- Regulatory Competence Management
- Regulatory Cooperation Forum
- Safety packages based on SSG-16
- Self-assessment based on SSG-16
- Tailored Module for Countries Embarking on Nuclear





RCF Portal



RCF Members' Area

RCF Member Login

Documents

Terms of Reference

RCF Programme Plan

RCF Programme Assessment

List of Major RCF Activities

Links

Embarking Countries

EU Nuclear Safety Cooperation Instrument (INSC)

EuropeAid Safety Training

Safety Modules

Milestones Document

SSG-16

GSR Part 1

IAEA Safety Standards

Self-Assessment of Regulatory Infrastructure for Safety (SARIS)

SARCoN

Methodology for Self Assessment of Capacity Building

Contact Us

Welcome to the Regulatory Cooperation Forum



RCF Steering Committee Meeting 2012



Objectives:

- To help Member States Develop Effectively Independent and Robust Regulators of Nuclear Power
- To optimize the Use of Limited Resources
- To promote Harmonized Use of International Safety Standards and Best Practices

Request Access to Members Only RCF Web Page

- Go to <http://nucleus.iaea.org/Home/index.html> and click Register on the top of navigation tool bar.
- Complete account information with username and password.
- Send email with username requesting access to: (n.douchev@iaea.org)
- RCF Secretariat approves access (must be RCF member)

How to Join the RCF?

The IAEA Member State most senior regulatory body official requests membership through the RCF Secretariat at email address: Regulatory-Activities.Contact-Point@iaea.org.

To read more on the RCF, please click [here](#)

RCF Photo Gallery



RCF Videos



Interview with former RCF Chair, Mr Mike Weightman



Interview with former Head of the IAEA Safety and Security Coordination Section, Mr Khammar Mrabit



<http://gnssn.iaea.org/regnet/embarking/rcf/Pages/default.aspx>



Highlights of Activities 2015



- **Workshop on Issues and Challenges of Embarking Countries regarding Establishment of Effective National Safety Infrastructure, Turkey, May 2015**
- **Continued cooperation with the European Commission (EC) through on-going contribution agreement; joint RCF-EC annual meeting(May 2015) and Side event during GC 59**
- **Zwentendorf nuclear power plant Inspection workshop was conducted in June and September 2015**



Highlights of Activities 2015



- **GSR Part 1 has been revised;**
- **SSG-16 is under revision to incorporate the relevant lessons learned from the Fukushima Daiichi Accident;**
- **IAEA Safety Guides supporting GSR Part 1 are also currently under revision;**
- **The development of self-assessment guidelines for safety culture for regulatory body has been initiated.**



Highlights of Activities 2015



- **Implementation of national and regional activities in the regulatory area, based on the exemplary training material (SSG-16)**
- **Development of exemplary training material on Certification of regulatory personnel from a regulatory perspective;**
- **Development of training module on lessons learned on regulatory implications from the Fukushima Daiichi accident;**
- **Consideration to open new dedicated RegNet platform on Regulatory Inspection Programmes.**



Conclusions



- **Support to Member States for development of nuclear safety infrastructure continues to be one of the main focus in the regulatory area;**
- **IAEA Safety Standards and training material complemented with practical tools and activities based on the challenges identified by Member States;**
- **RegNet continues to be used by regulators**



Thank you for your attention



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