AAEA / ANNuR
Progress and Current Status

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4th GNSSN Steering Committee Meeting.
30 June - 2 July 2014
Vienna, Austria
22 member states in LAS

African Countries
- Egypt
- Libya
- Sudan
- Tunisia
- Mauritania
- Morocco
- Algeria
- Comoros
- Djibouti
- Somalia

Gulf Countries
- Bahrain
- KSA
- Kuwait
- Oman
- Qatar
- UAE

Asian Arab Countries
- Iraq, Jordan, Lebanon, Palestine, Syria, Yemen,

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Need for Arab Safety Networks

- To ensure that safety, security and knowledge, experience, and lessons learned are made visible and available, through links between Arab Regulatory Bodies (ARBs),
- To enable and support interaction and collaboration between competent people and organizations relevant to nuclear regulation.
- Therefore, The Arab Network of Nuclear Regulators (ANNuR) has been established in January 2010

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Objectives of the ANNuR

- Pooling, analyzing and sharing existing and new knowledge and information on NS&S
- Creation of human network and cyber community
- Facilitation of cooperation between Arab, regional and Int. nuclear bodies
- Capacity building system to share knowledge and experience between regulators in Arab countries
- Enhancement of nuclear safety infrastructures in Arab countries
- Assuring and upgrading safety of nuclear installations in ACs
- Provide regulatory insights to nuclear safety issues specific to ACs
ANNuR Hierarchy

ANNuR Plenary: Representatives from Arab Regulatory Bodies

Chair

Steering Committee Plenary

TWG 1
Strengthening infrastructure and capacity building

TWG 2
Legislation and Regulation frameworks

TWG 3
Emergency preparedness and response

TWG 4
Radioactive waste management and disposal of spent fuel

TWG 5
Safety, Security & Safeguards

TWG 6
Information Technology

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The Thematic Working Groups

<table>
<thead>
<tr>
<th>Thematic Working Group</th>
<th>coordinator</th>
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<tbody>
<tr>
<td>strengthening infrastructure and capacity building for regulatory bodies</td>
<td>Jordan</td>
</tr>
<tr>
<td>Legislation and Regulation frameworks</td>
<td>Tunisia</td>
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<tr>
<td>Emergency preparedness and response</td>
<td>Iraq</td>
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<tr>
<td>Radioactive waste management and disposal</td>
<td>Libya</td>
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<tr>
<td>Safety, Security and Safeguards</td>
<td>Egypt</td>
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<tr>
<td>Information Technology</td>
<td>IAEA/AAEA</td>
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- **Chairmanship** → Jordan 2011-2012, 2013-2014 → Tunisia

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ANNuR Meetings

- ANNuR established, January 2010 ➔ First meeting
- May 2011 ➔ Second meeting
- April 2012 ➔ Third meeting
- March 2013 ➔ Fourth meeting
- March 2014 ➔ Fifth meeting

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IAEA assisted in:

- Establishing ANNuR
- Providing expert support to different ANNuR activities
- Supporting financially many ANNuR workshops and training courses.

ANNuR and IAEA signed a practical agreement on cooperation in the area of strengthening the nuclear safety and security frameworks.

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- The 1st meeting of Arab Network of Nuclear Regulators, Tunisia, 20-22 January 2010
- The 2nd meeting of Arab Network of Nuclear Regulators, Tunisia, 4-7/5/2011
- Round Table on Fukushima Accident Impacts on Arab Nuclear Programmes, 7 May 2011, Hammamet, Tunisia
- First Regional Workshop on Collaboration on Radioactive Waste Management in Arab Countries 12- 14 April, UAE 2012
- The 3rd meeting of Arab Network of Nuclear Regulators, Tunisia, 24 - 26 April 2012.
- Workshop on Self-Assessment Tool for the SSG-16, Tunisia, 15-18/7/2012
- Second Regional Workshop on Collaboration on Radioactive Waste Management in Arab Countries 12- 14 November, Tunisia 2012
● 4th Meeting of the Arab Network of Nuclear Regulators, 12 - 13 /3/2013
● Meeting of National Committees for Nuclear and Radiological Law, 14 - 15 March 2013
● Training Course on Knowledge Safety Networks, Tunisia, 19-23 August 2013
● Training Course on Regulatory Fundamentals for Nuclear and Radiation Installations and Activities: Legislation and Regulation for Licensing and Inspection, Jordan, 1 - 5 September 2013
● Regional Workshop on Self-Assessment for Regulatory Authorities: Introduction to the SSG-16 Self-Assessment Methodology and the IRIS Software, Jordan, 18–21November 2013
- The 5th Meeting of the Arab Network of Nuclear Regulators, 03 – 05/3/2014
- Workshop on Radioactive Waste Management, Tunisia, 24-28/03/2014
- Regional Workshop on Nuclear Safety Management for Young Professionals on Applying the Guidelines for Systematic Assessment of Regulatory Competence Needs (SARCoN), Jordan, 15-19/06/2014
- Workshop on Regulatory Inspection Programmes of Research Reactors Egypt, 28 September – 2 October 2014

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COOPERATION WITHIN KINS

MOU SIGNED BETWEEN KINS AND AAEA

CO-Sponsoring of ANNuR - Attending all five annual meetings

MSC grants in ISNS for ANNuR member states.

• A training course for Arab professionals about Fundamentals of Nuclear Power Plants and safety regulation, Daejeon, Korea, October 2011

• Workshop on legislation and regulation of nuclear facilities, Hammamet, Tunisia, 2012

• Workshop on nuclear and radiation emergency preparedness and response, KINS radiation and nuclear emergency centre, Daejon, Korea, September 2012

• Workshop on Inspection and Licensing, Amman, Jordan, September 2013

• Workshop on reactors safety and technology Daejon, Korea, 2013

• Workshop on Nuclear and Radiological Emergency Preparedness and Responses, Daejon, Korea, June 9-18, 2014

• Workshop on Establishing and Organizing a Regulatory Body in Arab region to be held in Morocco, 15-19 September 2014
US-NRC – AAEA
Cooperation Training programmes

• Nuclear Executive Workshop for Decision Makers in Regulation of Nuclear Power Programs, USA, March 2012
• Workshop on the Physical Protection and Security of Radioactive Sources, Tunisia, June 2012
• Site Application Review, Tunisia, February 2013
• Workshop on Physical Protection of Nuclear Materials and Installations. Kuwait, February 2013
• Regulatory Aspect of Power and Research reactors siting, Jordan. September 2013
• Radiological and Nuclear Emergencies. August 2013
• Workshop on Construction Permit for Power and Research Reactors. USA October 2014
• Workshop on Probabilistic Risk Assessment. Kuwait November 2014
AAEA-EU COOPERATION

- EU representatives attending all ANNuR meetings
- EU supported a training course on Legal & Regulatory Frameworks and Basic Safety Requirements for NPP in Hammamet, Tunisia, 4/2013

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AAEA-LLNL (DoE)

Agreement with LLNL (DoE), to support 3 activities annually in the field of Nuclear SSS

- Workshop on Nuclear Power Program Project Management, Kuwait 4/2011
- Training Course on Basic Requirements of Nuclear Regulatory Bodies, Jordan, 2011.
- The Regional Workshop on Nuclear Security and Safeguards, Morocco, 11/2012
- Workshop on Regulation, Legislation and Security of Radioactive Sources, Saudi Arabia, 12/2012
- Workshop on Radiation Monitoring and Export Control, Bahrain, 11/2013

4th GNSSN Steering Committee Meeting, 30 June - 2 July 2014 Vienna, Austria
ANNuR Number of events per Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Events</th>
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<tbody>
<tr>
<td>Year 2010</td>
<td>4</td>
</tr>
<tr>
<td>Year 2011</td>
<td>7</td>
</tr>
<tr>
<td>Year 2012</td>
<td>13</td>
</tr>
<tr>
<td>Year 2013</td>
<td>15</td>
</tr>
<tr>
<td>Year 2014</td>
<td>10</td>
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What is the Global Nuclear Safety and Security Network

![Image of a flag with a nuclear symbol]

More about the GNSSN
- How to Register for the GNSSN Services
- About GNSSN

Links of Interest
- The Regulatory Cooperation Forum - RCF
- The National Nuclear Regulatory Portal - NNRP
- The International Nuclear and Radiological Event Scale - INES
- Superseded Safety Standards
- Action Plan
Arab Network of Nuclear Regulators
Objectives

The objectives of ANNuR are to:

1. Provide a platform for fostering regional cooperation;
2. Provide for the exchange of expertise, information and experience;
3. Provide opportunity for mutual support and coordination of regional initiatives;
4. Leverage the development and optimization of resource utilization.

Membership

Membership of the ANNuR shall be open to all national nuclear regulatory bodies in all Arab countries on a voluntary basis. Participants in ANNuR meetings shall be senior representatives of regulatory bodies in member states as well as representatives from AAEA, IAEA and KINS.

Observers from other international or regional organizations may be invited to attend meetings on an ad-hoc or continuing basis by the decision of the Steering Committee.

National Nuclear Regulatory Portals of the ANNuR Member States

- Algeria
- Bahrain
- Comoros
- Djibouti
- Egypt
- Iraq
- Jordan
- Kuwait
- Lebanon
- Libya
- Mauritania
- Morocco
- Oman
- Palestine
- Qatar
- Saudi Arabia
- Somalia
- Sudan
- Syria
- Tunisia
- UAE
Thank you

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