

# **Progress Report**

**on**

**Asian Nuclear Safety Network, ANSN**

**Reporting periods:  
2017 and 2018**

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## Asian Nuclear Safety Network in 2017

<b>Project short name</b>	ANSN
<b>Project status</b>	Ongoing
<b>IAEA Programme</b>	Programme code 3.0.0.1
<b>IAEA Sub-Programme</b>	Sub-Programme code and title, AIPS code 3000163
<b>Implementing Division/Section</b>	NS Office of Safety and Security Coordination - Networks Management and Partnership Section
<b>Technical Officer</b>	Mr Guo, Linguan, Ext: 26429
<b>Project Start Date</b>	
<b>Expected Project End Date</b>	
<b>Total project duration</b>	

### 1) ACHIEVEMENTS DURING REPORTING PERIOD

<b>Summary of Progress and Outcomes (Results to date)</b>
<p>ANSN Member States (Bangladesh, Indonesia, Kazakhstan, Malaysia, Singapore, Thailand, Viet Nam and Philippines), in close coordination and cooperation with the ANSN Self-Assessment Coordination Group (SACG) and ANSN Steering Committee completed the self-assessment exercise in a timely manner. ANSN self-assessment is based on the IAEA's Specific Safety Guide (SSG)-16 guidelines, and facilitates addressing the needs of ANSN member states in a effective and efficient manner. In line with the newly adopted ANSN Self-Assessment process, ANSN also amended its Terms of Reference (ToR) and ANSN Vision.</p> <p>ANSN also established a new topical group, namely "Radiation Protection and Transport Safety", wherein the scope of activities of this group would be limited to Nuclear Installations.</p> <p>During 2017, ANSN implemented 5 national activities (Indonesia, Malaysia and Philippines) and 26 regional activities. The objective of these activities is to ensure effective and sustainable regulatory framework within ANSN member states. ANSN has also encouraged further cooperation with other regional networks like Arab Network of Nuclear Regulators (ANNuR) and Forum of Nuclear Regulatory Bodies in Africa, (FNRBA) to exchange best practices among the regional networks and identify opportunities for optimum utilization of available resources.</p>

<b>Financial Summary</b>
<p>The ANSN is implemented under the umbrella of the Global Nuclear Safety and Security Network, GNSSN. Extra budgetary contributions for included networks were received from France, Kazakhstan, the Republic of Korea, Japan, and the United States of America. The contributions were targeted towards one or more of the following networks or fora: the ANSN, ANNuR, European and Central Asian Safety Network (EuCAS), FNRBA, GNSSN, and Technical and Scientific Organization Forum (TSOF). The networks under the GNSSN umbrella received extra budgetary contributions in the total amount of €2 165 329 in 2017. The extra budgetary contributions include funds to cover staff cost for three Cost Free Experts. Additional funding in the amount of € 176 711 was received from the IAEA Regular budget and Programme Support Cost Funds.</p>

## 2) REPORT ON OUTPUTS ACHIEVED

### **Output 1: Enhanced networking and cooperation within and among Member States and networks (incl. development of new networks, steering committee meetings, Practical Arrangement meetings, Inter-Regional WS)**

- [First Consultancy Meeting on the Revision of the Asian Nuclear Safety Network Vision 2020, Austria, Vienna, 23-24 March 2017](#)
- [Fourth Meeting of Self-Assessment Coordination Group, Korea, Daejeon, 8-9 May 2017](#)
- [25th Meeting of ANSN Steering Committee \(SC\), Korea, Daejeon, 10-12 May 2017](#)
- [Fifth Meeting of the Self-Assessment Coordination Group on the Establishment of an Activity Plan for the Period 2018–2020 Based on the Results of Self-Assessment, Austria, Vienna, 21-25 August 2017](#)
- [Second Consultancy Meeting on the Revision of the Asian Nuclear Safety Network Vision 2020, Austria, Vienna, 29-31 August 2017](#)
- [Participation in GLOBAL 2017 - International Nuclear Fuel Cycle Conference \(Nuclear Safety World Survey\), Korea, Seoul, 25-27 September 2017](#)
- [26th Meeting of ANSN Steering Committee \(SC\), Austria, Vienna, 23-25 October 2017](#)

### **Output 2: Strengthened platform for the exchange of technical knowledge (incl. management of nuclear safety knowledge, Nuclear Safety Knowledge Base) (IT)**

- Provide necessary support to users in ANSN member states for the online nomination process
- Sharing of information pertinent to ANSN activities via the centralised ANSN website
- Conceptualize an online system within the centralised ANSN website to facilitate ANSN stakeholders in the self-assessment process as well as evaluation of ANSN activities

### **Output 3: Enhanced competence in nuclear safety and security (incl. national and regional training courses and WS)**

- [Regional Workshop on the Safe Management of Spent Fuel from Research and Power Reactors Tokyo \(Radioactive Waste Management Topical Group\), Japan, Tokyo, 6-10 February 2017](#)
- [Regional Workshop on Small Modular Reactor Safety and Licensing \(Regulatory Infrastructure and Governmental and Regulatory Infrastructure Groups\), Indonesia, Jakarta, 28 February – 3 March 2017](#)
- [Joint IAEA–KINS Workshop on Siting Evaluation for Nuclear Facilities, Korea, Daejeon, 17-21 April 2017](#)
- [Joint IAEA–KINS Workshop on Safety Regulation of Radioisotopes and Emergency Response, Korea, Daejeon, 12-16 June 2017](#)
- [Regional Workshop on Examination Method Optimization for Licensed Reactor Operators and for Senior Reactor Operators in Nuclear Power Plants, China, Wuhan, 13-16 June 2017 \(Safety Assessment Topical Group\)](#)

- Joint IAEA–KINS Basic Professional Training Course for Nuclear Safety, Korea, Daejeon, 26 June -7 July 2017
- IAEA Expert Mission on Leadership programme for apprentices: from standards to practices of nuclear safety and security (Leadership and Management for Safety Topical Group), Malaysia, Kuala Lumpur, 17-21 July 2017
- Regional Workshop on Safety Assessment of Spent Fuel Subcriticality in Storage and Cooling during handling, transfer and storage, Malaysia, Selangor, 17-21 July 2017 (Safety Assessment Topical Group)
- Regional Workshop on Safety Requirements and Design Improvements for Small and Medium Sized Reactors Focused on Station Blackout Accidents and Annual Meeting of the Topical Group on Safety Assessment, Indonesia, Bali, 7-11 August 2017 (Safety Assessment Topical Group)
- Regional Workshop on Instructor Training Course; Safety Leadership, Japan, Tsuruga, Fukui Prefecture, 11-15 September 2017 (Education and Training Topical Group)
- Agency Mission on Competency Needs Assessment for Technical Support Organizations, Philippines, Manila, 9-13 Oct 2017 (Leadership and Management for Safety Topical Group)
- National workshops on Communication during a Nuclear or Radiological Emergency, Indonesia, Jakarta, 16-19 October 2017 (Communication Topical Group)
- Regional Workshop on Competency and Profile of Technical and Scientific Support Organizations, Indonesia, Jakarta, 6-10 November 2017 (Education and Training Topical Group)
- Regional Workshop on the Development and Implementation of a Radioactive Waste Management Programme Focusing on Site selection, site characterization and link with the safety case (Radioactive Waste Management Topical Group), Manila, Philippines, 6-10 November 2017

**Output 4: Harmonized capacity building approaches (incl. annual meetings, TMs, attending conferences, Fukushima lessons learnt, etc.)**

- Annual Meeting of the Topical Group on Radioactive Waste Management and Regional Workshop on the Joint Convention on the Safety of Spent Fuel Management and on the Safety of Radioactive Waste Management (Radioactive Waste Management Topical Group), Bangkok, Thailand, 29 May – 2 June 2017
- Annual Meeting of the Topical Group on Emergency Preparedness and Response (EPRTG) and Regional Workshop on Information Exchange during Radiation Emergencies, and on Cooperation to Coordinate Emergency Preparedness and Response, Austria, Vienna, 12-16 June 2017 (Emergency Preparedness and Response Topical Group)
- Annual Meeting of the Topical Group on Communication and Consultation with Interested Parties and Regional Workshop on Sharing Experience with other Regions on Safety Communication, Austria, Vienna, 28-31 August 2017 (Communication Topical Group)
- Annual Meeting of the Topical Group on Siting and Regional Workshop on Evaluation of Site Selection, Malaysia, Selangor, 4-8 September 2017 (Siting Topical Group)
- Annual Meeting of the Regional Advisory Safety Committee for Research Reactors in Asia and the Pacific, USA, Illinois, Argonne, 16-20 October 2017 (Safety Management of Research Reactors Topical Group)

**Impact in Member States – What is the situation as a result of IAEA activities**

Impact of the ANSN activities will be evaluated at the end of the first ANSN self-assessment cycle in 2020, based on the ANSN evaluation guidelines. The impact will be reported on basis of performance indicators (qualitative as well as quantitative)

Periodic assessment of the ANSN activities is also considered by gathering feedback from the participants of the ANSN activities.

**Beneficiaries to date** (*Information on which countries the project has impacted to date, and is anticipated to impact*)

Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Philippines, Singapore, Thailand, Viet Nam, Australia, France, Germany, USA, Pakistan.

**Difficulties encountered during implementation****Changes introduced in implementation**Changes introduced in implementation:

ANSN will hereafter support the establishment of an efficient and sustainable regulatory framework within ANSN member states, based on the newly conceptualised self-assessment process in line with IAEA's SSG-16 guidelines. In addition to the self-assessment results, ANSN member states will also consider to incorporate relevant information on gaps identified via respective IAEA's Integrated Regulatory Review Service (IRRS) and Integrated Nuclear Infrastructure Review (INIR) missions while drafting future activity plans.

Since the activity plan for 2018-2020 has been compiled, the primary focus of the ANSN topical groups is to implement this activity plan.

Difficulties encountered during implementation:

Delays, cancellations and/or postponements of few ANSN activities. It was proposed by the ANSN Steering Committee to consider reviewing the approval process for hosting arrangements, for Member States to finalise the hosting arrangements at least nine months before the start of the actual event. The current process flowchart will be reviewed in the first quarter of 2019 along with key timelines/milestones to enhance the effectiveness and efficiency of the workflow.

**3) FUTURE OUTLOOK AND PROJECT SCHEDULE****Future Project Outlook - Where do we go from here? / What is still needed to be done?**

ANSN has drafted the activity plan for 2018-2020, and will continue with its implementation during the aforementioned period. The ANSN self-assessment cycle is the 3 year cycle spanning from 2018-2020. At the end of the cycle, an evaluation will be conducted and the recommendations will be fed back to the planning phase of the subsequent cycle. In order to evaluate the effectiveness of ANSN activities, it was proposed and agreed to develop guidelines and methodology.

Revival of the ANSN progress report has also been considered and agreed upon. The format for the ANSN Progress report has changed from what was existing in the past, to reflect details of implemented activities via links to the ANSN website. Moreover the roles and responsibilities to compile this report has also been further streamlined and an Event Record Sheet has been introduced to collect the achievements, observations and participants' evaluation of the event.

It has also been discussed and agreed to adopt some best practices from other regional networks such as, inter alia, Ibero-American Forum of Radiological and Nuclear Regulatory Agencies (FORO), in order to better highlight the tangible outputs achieved to implementation partners, through e.g. technical reports illustrating key achievements and results of the ANSN technical working groups.

#### **Comments/Feedback to the donors**

In order to ensure continuous implementation of the ANSN activity plan, ANSN depends on the financial as well as in kind support offered by its donors.

Hosting of ANSN, ANNuR, EuCAS, FNRBA, GNSSN and TSOE events in 2017.

<b>Host</b>	<b>Number of events hosted</b>
Bulgaria	1
China	1
Indonesia	4
Japan	2
Jordan	1
Korea	6
Malaysia	3
Morocco	3
Norway	1
Philippines	3
South Africa	2
Thailand	1
Tunisia	1
USA	1
IAEA	26
<b>Total</b>	<b>56</b>



## Asian Nuclear Safety Network in 2018

<b>Project short name</b>	ANSN
<b>Project status</b>	Ongoing
<b>IAEA Programme</b>	Programme code 3.0.0.1
<b>IAEA Sub-Programme</b>	Sub-Programme code and title, AIPS code 3000163
<b>Implementing Division/Section</b>	NS Office of Safety and Security Coordination - Networks Management and Partnership Section
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### 1) ACHIEVEMENTS DURING REPORTING PERIOD

<b>Summary of Progress and Outcomes (Results to date)</b>
<p>ANSN successfully implemented 25 out of the planned 31 activities. These activities were planned based on the results of the self-assessment conducted by ANSN member countries in 2016-2017. ANSN members also participated in four Joint IAEA-KINS workshops together with ANNuR and FNRBA members.</p> <p>Notable achievements during 2018 was preparation of “Guidelines on Evaluation of ANSN Support Activities and Self-Assessment”. ANSN would conduct an evaluation of its implemented activities in 2020. Schedule for this evaluation exercise has also been compiled. Moreover the tentative time schedule for the 2nd cycle of ANSN Self-Assessment process has also been prepared. During the 27th ANSN Steering Committee meeting in May 2018, it was proposed to revive the publication of ANSN Progress Report. Concrete steps to finalise the format, roles and responsibilities for this were finalised. ANSN also formulated a Task Force to facilitate publication of its first Technical Report by 2020; topic of this Technical Report would be “ANSN Self-Assessment Process”. One of the purposes of this Technical Report is to furnish necessary guidelines for other regional networks to adopt a similar approach.</p> <p>The Terms of Reference for the ANSN RTTG (Radiation Protection and Transport Safety Topical Group) were also endorsed by the ANSN Steering Committee members. ANSN initiated formulation of topical group members for this group by requesting ANSN member countries to submit their nominations.</p>

<b>Financial Summary</b>
<p>The ANSN is implemented under the umbrella of the GNSSN. Extra budgetary contributions for included networks were received from Belgium, the Republic of Korea, Japan, and the United States of America. Extra budgetary contributions for included networks were targeted towards one or more of the following networks or fora: the ANSN, ANNuR, EuCAS, FNRBA, GNSSN, and TSOF. The GNSSN networks received extra budgetary contributions in the total amount of € €1 941 739 in 2018. The extra budgetary contributions include funds to cover staff cost for a Cost Free Expert. Additional funding in the amount of €259 654 was received from the IAEA Regular budget.</p>

## 2) REPORT ON OUTPUTS ACHIEVED

### **Output 1: Enhanced networking and cooperation within and among Member States and networks (incl. development of new networks, steering committee meetings, Practical Arrangement meetings, Inter-Regional WS)**

- Consultancy Meeting to revise the ANSN Terms of Reference and to develop formats for ANSN Progress Reports and Technical Reports, Austria, Vienna, 9-11 April 2018
- Sixth Meeting of the Self-Assessment Coordination Group, Austria, Vienna, 12-13 April 2018
- 27th Meeting of the Steering Committee of the Asian Nuclear Safety Network, Austria, Vienna, 9-11 May 2018
- 5th ASEANTOM meeting, Singapore, Singapore, 26-27 June 2018
- Third Plenary Meeting of the Asian Nuclear Safety Network, Austria, Vienna, 19 September 2018
- Consultancy Meeting to develop guidelines and methodology to monitor and evaluate ANSN self-assessment results and actions, Japan, Tokyo, 1-3 October 2018
- Seventh Meeting of the Self-Assessment Coordination Group, Japan, Tokyo, 4-5 October 2018
- 28th Meeting of the Steering Committee of the Asian Nuclear Safety Network, Indonesia, Bali Island, 14-15 November 2018

### **Output 2: Strengthened platform for the exchange of technical knowledge (incl. management of nuclear safety knowledge, Nuclear Safety Knowledge Base) (IT)**

- Provide necessary support to users in ANSN member states for the online nomination process;
- Sharing of information pertinent to ANSN activities via the centralised ANSN website;
- Revival of the ANSN Information Technology Support Group (ITSG) with a revised Terms of Reference (ToR). The intent of this revival is to ensure sustainability of knowledge sharing on the centralised ANSN website by the ANSN member states.
- Drafting of system requirement specification of the previously conceptualised online system within the centralised ANSN website to facilitate ANSN stakeholders in the self-assessment process as well as evaluation of ANSN activities

### **Output 3: Enhanced competence in nuclear safety and security (incl. national and regional training courses and WS)**

- Regional Workshop on Regulatory Inspection Programmes for Research Reactors, Australia, Sidney, 5-9 February 2018
- IAEA-Fukui Regional Workshop on the Instructor Training Course on Safety Leadership, Japan, Fukui, 16-20 April 2018
- Joint IAEA-KINS: Workshop on Siting Evaluation for Nuclear Facilities, Korea, KINS Daejeon, 16-20 April 2018

- Regional Workshop on Improving Competence and Expertise in Identifying Performance Gaps by Using Peer Review Methodology, China, Wuhan, 15-18 May 2018
- National Workshop on Safety Requirements for Site Evaluation, Philippines, Manila, 28 May – 1 June 2018
- Joint IAEA-KINS: Regional Network Meeting on radiation safety and emergency response, Korea, Daejeon, 25-29 June 2018
- Regional Meeting for Central Governments and Regulatory Bodies on the Development of a National Strategy and Regulatory Requirements for Radioactive Waste Management, China, Taiyuan, 9-13 July 2018
- National Workshop on Systematic Assessment of Regulatory Competence Need (SARCoN) using IAEA SARCoN Methodology, Indonesia, Jakarta, 9-13 July 2018
- National Workshop on Using the IAEA methodology for Systematic Assessment of Regulatory Competence Needs, Thailand, Bangkok, 23-26 July 2018
- National workshop on preparedness and response arrangements for events involving a nuclear emergency in a neighbouring country, Viet Nam, Hanoi, 27-29 August 2018
- Expert meeting on Evaluation of a Nuclear Installation Site with respect to Geotechnical Aspects, River Flooding and Radiological Impacts and Meeting of the ANSN Topical Group on Siting, Thailand, Bangkok, 3-7 September 2018
- Expert meeting on Nuclear Safety Culture Self-Assessment based on the New Methodology, Viet Nam, Hanoi, 1-5 October 2018
- National workshop on the analysis of stakeholders, the development of message, and the improvement of communication skills, Viet Nam, Hanoi, 1-4 October 2018
- Joint IAEA-KINS Regional Network Meeting on Basic Professional Training Course for nuclear safety, Korea, Daejeon, 15-26 October 2018
- National Workshop for Central Governments and Regulatory Bodies on the Development of a Communication Strategy, Thailand, Bangkok 29 October – 2 November 2018
- Expert meeting on National Policy and Strategy, including Knowledge Transfer for Safety, Thailand, Bangkok, 12-16 November 2018
- Expert meeting on How to Develop Capacity Building of Safety Assessment and Meeting of Topical Group on Safety Assessment, Thailand, Phuket, 26-30 November 2018
- Joint IAEA-KINS: Workshop on Regulatory Infrastructure for Nuclear Safety, Korea, Daejeon, 3-7 December 2018

**Output 4: Harmonized capacity building approaches (incl. annual meetings, TMs, attending conferences, Fukushima lessons learnt, etc.)**

- Annual Meeting of the Topical Group on Communication and Regional Workshop on the Use of Social Media for Communication, including Monitoring and Evaluation, Viet Nam, Hanoi, 18-22 June 2018
- Sixth Annual Meeting of the Regional Advisory Safety Committee for research reactors in Asia and Pacific (RASCAP), USA, Illinois, 1-5 October 2018
- Regional Workshop on the Development of a Knowledge Management System for the Regulatory Body and Annual Meeting of the Topical Group on Education and Training, Austria, Vienna, 18-22 June 2018
- Regional workshop on the Coordination of Safety and Security Aspects needed to Establish Synergy and Integration and Annual Meeting of the Topical Group on Regulatory Infrastructure, Malaysia, Putrajaya, 22-26 October 2018

**Impact in Member States – What is the situation as a result of IAEA activities**

Impact of the ANSN activities will be evaluated at the end of the first ANSN self-assessment cycle in 2020, based on the ANSN evaluation guidelines. The impact will be reported on basis of performance indicators (qualitative as well as quantitative). In 2018, evaluation guidelines have been drafted, based on the evaluation criteria of “Relevance”, “Efficiency”, “Effectiveness”, “Impact” and “Sustainability”.

Periodic assessment of the ANSN activities is also considered by gathering feedback from the participants of the ANSN activities. In 2018, assessment of some of the ANSN activities has been summarized by gathering feedback from the participants. This feedback is reflected in the Event Record Sheet of these activities and has been made available on the ANSN website.

**Beneficiaries to date** (*Information on which countries the project has impacted to date, and is anticipated to impact*)

Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Philippines, Singapore, Thailand, Viet Nam, Australia, France, Germany, United States of America, Pakistan

**Difficulties encountered during implementation**

**Changes introduced in implementation**

Changes introduced in implementation:

ANSN implemented its workplan for 2018, based on the results of the self-assessment conducted in 2016-2017. However there were some additional requests from ANSN member states, which were considered to be implemented by the ANSN Self-Assessment Coordination Group (SACG) based on the strong justification provided for these activities. ANSN decided to follow this approach to incorporate such need-based activities during the implementation – provided there is a strong justification which would be evaluated by ANSN SACG and IAEA Technical Officers.

Moreover some national workshops with similar objectives and scope were implemented as regional workshops. This ensures optimum utilization of resources and renders more efficiency to the implementation process.

Difficulties encountered during implementation:

### **3) FUTURE OUTLOOK AND PROJECT SCHEDULE**

#### **Future Project Outlook - Where do we go from here? / What is still needed to be done?**

Based on the results of the 1st ANSN self-assessment cycle, implementation of the ANSN activities has continued in 2018 and will continue in 2019. By the end of 2019, the evaluation of ANSN activities will be conducted by the ANSN SACG in close coordination with the ANSN member states. Guidelines for this evaluation have already been formulated. Feedback from the ANSN self-assessment will be fed in the 2nd cycle of ANSN self-assessment in 2020.

ANSN will also plan activities for the newly formulated ANSN Radiation Protection and Transport Safety Topical Group (RTTG)

The key success of ANSN strongly depends on the coordination of ANSN Self-Assessment Coordination Group (SACG) and each ANSN Topical Group (TGs). IAEA will continue to facilitate this ongoing coordination.

ANSN Steering Committee members strongly encouraged more collaboration and cooperation among the regional networks such as FORO, FNRBA and ANNuR to share knowledge, experiences on capacity building activities in the area of nuclear safety. The existing GNSSN framework facilitates the cooperation by inviting the Chairs of all regional networks to the yearly GNSSN Plenary.

#### **Comments/Feedback to the donors**

In order to ensure continuous implementation of the ANSN activity plan, ANSN depends on the financial as well as in-kind support offered by its donors.

Hosting of ANSN, ANNuR, EuCAS, FNRBA, GNSSN and TSOE activities in 2018.

<b>Host</b>	<b>Number of events hosted</b>
Algeria	1
Australia	1
Belgium	4
Bosnia-Herzegovina	1
China	4
Czech Republic	2
Egypt	1
Ghana	3
Hungary	1
India	1
Indonesia	2
Japan	3
Korea	6
Malaysia	1
Mexico	1
Morocco	2
Philippines	1
Singapore	1
South Africa	1
Thailand	4
Thailand	1
Tunisia	2
Turkey	1
USA	2
Viet Nam	4
IAEA	30
Total	81

## Abbreviations

AAEA	Arab Atomic Energy Agency
AFCONE	African Commission on Nuclear Energy
AFRA	African Regional Cooperative Agreement for Research, Development and Training related to Nuclear Science and Technology
ANNuR	Arab Network of Nuclear Regulators
ANSN	Asian Nuclear Safety Network
AUC	African Union Commission
EPR	Emergency Preparedness and Response
EuCAS	European and Central Asian Safety Network
FNRBA	Forum of Nuclear Regulatory Bodies in Africa
FORO	Ibero-American Forum of Radiological and Nuclear Regulatory Agencies
GNSSN	Global Nuclear Safety and Security Network
INSSP	Intergated Nuclear Security Support Plan
IRDP	International Regulatory Development Partnership
KINS	Korea Institute for Nuclear Safety
NS	IAEA Department of Nuclear Safety and Security
RIDP	Regional Regulatory Infrastructure Development Project
RTTG	Radiation Protection and Transport Safety Topical Group
SACG	Self-Assessment Coordination Group
TG	Topical Group
TSOF	Technical and Scientific Organization Forum
TWG 5	FNRBA Technical Working Group 5 - Upgrading Safety In Nuclear Research Reactor
IRRS	Integrated Regulatory Review Service
INIR	Integrated Nuclear Infrastructure Review
US NRC	United States Nuclear Regulatory Commission