

**TECHNICAL MEETING: NUCLEAR SECURITY PLAN 2014-2017 – IMPLEMENTATION OF
THE INTERNATIONAL NETWORK FOR NUCLEAR SECURITY TRAINING AND
SUPPORT CENTRES (NSSC Network)**

IAEA Headquarters, Vienna, Austria 23-25 February 2015

Chairperson's Report



**The following is the report of the outcome of the Technical Meeting: Nuclear Security Plan
2014-2017 – Implementation of the International Network for Nuclear Security Training and
Support Centres (NSSC Network)
IAEA Headquarters, Vienna
23-25 February 2015**

A technical meeting on the *Nuclear Security Plan 2014-2017 – Implementation of the International Network for Nuclear Security Training and Support Centres (NSSC Network)* was held at the International Atomic Energy Agency (IAEA) Headquarters, Vienna from 23rd to 25th February 2015. There were 60 participants from 47 Member States, one participant from the European Union, one participant from the Center for Strategic & International Studies (CSIS), and three from the World Institute of Nuclear Security (WINS) as well as seven IAEA staff.

The objectives of the meeting were:

- To brief the membership on the status of the Working Group Action Plans;
- To brief the Members on various Centre activities;
- To facilitate an exchange of information;
- To provide a status update on the IAEA Division of Nuclear Security and the Integrated Nuclear Security Support Plan process;
- To discuss nuclear security culture and sustainability activities;
- To discuss the status of the NUSEC Portal and the new e-Learning applications;
- To update the Network on the status of the survey;
- To highlight recent pilot benchmarking/technical visits;
- To discuss improvement of NSSC and Network effectiveness;
- To promote regional centre engagement to include an update on the Asia Regional Network; and
- To explore synergies with INSEN via the joint meeting of the networks and their leaderships.

BACKGROUND

In September 2013, the Board of Governors approved a *Nuclear Security Plan* covering the period 2014–2017¹. The objective of the IAEA Nuclear Security Plan (the Plan) is to contribute to global efforts *to achieve effective security* wherever nuclear or other radioactive material is in use, storage and/or transport, and of associated facilities, by supporting States, upon request, in their efforts to meet their

¹ GOV/2013/42-GC(57)/19.

national responsibilities and international obligations, to reduce risks and to respond appropriately to threats.

Effective nuclear security requires the provision of capabilities to prevent, detect and respond to a criminal or an unauthorized act with nuclear security implications, involving nuclear or other radioactive material. If the established capabilities are to remain effective, they should be developed systematically and should be self-sustained over the long-term by a State and by the competent authorities². The Plan gives particular attention to supporting States in their efforts to establish national nuclear security support centres that aim at *building-up a cadre of highly qualified and well trained nuclear security personnel* and, at *providing specific technical support* required for effective use and maintenance of instruments and other nuclear security technical systems, as well as *providing scientific support* for the detection of and the response to nuclear security events in a country.

All three components are equally important and ultimately contribute to the improvement of global and national nuclear security through reducing the risk that nuclear or other radioactive material in use, storage and/or transport could be used in criminal or unauthorized acts with nuclear security implications. Ultimately, a national nuclear security support centre assists States to meet and implement their obligations under the international nuclear security relevant legal instruments.

The IAEA Secretariat has developed a concept to establish a national nuclear security support centre that can be applied by any State. This concept has been rolled out successfully in several States that are willing to share their lessons learned in establishing such centres with the international community. In addition to the efforts of the IAEA, other initiatives have triggered the establishment of *Nuclear Security Centres* around the world typically with a focus on human resource development only, e.g. Nuclear Security Training Centre or Nuclear Security Centre of Excellence;

In order to coordinate current and future efforts in States or regions to establish and maintain such centres, the IAEA organized a meeting that took place 31 January – 02 February 2012 at which it was agreed to establish a collaborative network. The aim of the current meeting is to review the status of implementation of the *International Network for Nuclear Security Training and Support Centres (NSSC Network)*.

OPENING

The meeting was opened by Mr Khammar Mrabit, Director, Division of Nuclear Security, IAEA. Mr

² Competent authority: A governmental organization or institution that has been designated by a State to carry out one or more nuclear security functions. Example: Competent authorities include regulatory bodies, law enforcement, customs and border control, intelligence and security agencies, health agencies, etc. IAEA Nuclear Security Series No 15 Nuclear Security Recommendations on Nuclear and other Radioactive Material out of Regulatory Control, Vienna (2012).

Mrabit welcomed the participants and spoke briefly about the background and the purpose of the meeting. He commended the growth of membership and the collaboration of Working Groups on key issues through the 2014. He laid out the progress of addressing the challenges previously identified in the NSSC Network Annual Meetings in 2013 and 2014, namely, to define criteria for a Nuclear Security Centre of Excellence and to develop a process of NSSC Network technical/benchmarking visits to assist Member States in establishing Centres. Mr Mrabit highlighted the importance for a sustainable nuclear security regime of both education and training and fostering collaboration among a variety of States. In closing, he thanked the network members for their efforts and encouraged the active participation and effective contribution to the success of this meeting and overall network activity.

Ms Bonnie Jenkins from the United States Department of State, Chair of the Network, welcomed the participants, particularly new Members, and presented the draft agenda for adoption, and outlined the objectives of the meeting (see Attachment 1). The list of meeting participants is included as Attachment 2.

DISCUSSIONS AND FINDINGS

During the first day of the meeting, the participants were given a status update from the Chair on the activities of the NSSC Network in 2014. Following that, a representative of the IAEA Division of Nuclear Security outlined the activities and future plans of the Division in the areas of nuclear security education and training. The Working Group chairs presented the Network with the current status, progress and challenges in the implementation of the updated Action Plans. The first topical session, titled *Nuclear Security Culture and Sustainability* provided the IAEA perspective and an update on its activities in this area. Presentations included an introduction to the discussion provided by the Chair, Ms Bonnie Jenkins; Mr Carlos Torres Vidal and Ms Rhonda Evans, both from the Division of Nuclear Security, presented on the IAEA Nuclear Security Culture activities and on Sustainability, respectively; Mr Christopher Hobbs discussed the activities of INSEN and potential collaboration points between the two Networks on Nuclear Security Culture; and Mr Carsten Speicher presented on experience of Germany on Nuclear Security Culture self-assessment. Representatives from Cameroon, Center for Strategic and International Studies (CSIS), and the European Commission Joint Research Centre (EC-JRC) provided an introduction and update on their work in the field of training and support for nuclear security.

A brief discussion took place on the NSSC Network Terms of Reference (ToR), noting that minor adjustments were made to the draft ToR. The revised draft will once again be placed on the NUSEC Portal for agreement by members under a silence procedure that will conclude on 31 March 2015, after which the ToR will be considered formally adopted.

During the second day of the meeting, Mr Norman Bird and Mr James Conner from Working Groups A and B presented results from the NSSC Network Questionnaire Analysis. Mr Inamul Haq presented ideas for a potential Annual Meeting of the NSSC Network in Pakistan. The IAEA will look into the required process for such a meeting and will get back to the Network Leadership. In addition, members will provide the leadership with their views on a meeting in Pakistan by 15 March 2015. The Philippines and the Republic of Korea, and Nigeria and Ghana provided a presentation on their technical/benchmarking visits. These discussions were positively received as a potential foundation for future technical/benchmarking visits. The IAEA provided an update on the INSSPs process, and following that discussion, the Network deliberated on possible ways of improving the effectiveness of the Network, individual NSSCs, and of the IAEA's support for the Network and its members.

The Members then moved on to engage in regional discussion in various break-out groups and presented a summary of their discussions to the Plenary. Ms Reina Matsuzawa from the Asia Regional Network (ARN) gave a briefing on China, Japan and the Republic of Korea's efforts to share experiences of the Network and regional developments in Nuclear Security support and training. The plenary then discussed the plans for the NSSC Network Working Group meeting for August 2015.

The third day of the meeting was the first joint INSEN-NSSC Network session with the goal of improving collaboration between the two Networks. The beginning of the day focused on the discussion on collaboration between education and training with presentations on case studies from Pakistan, South Africa and Egypt. The Network Chairperson and Vice Chairperson, Working Group Chairpersons and Working Group Vice Chairpersons were introduced and accepted by the Plenary for the next 12 months (see Attachment 3).

The presentations are available for download on the *Nuclear Security Web Portal/User Group NSSC*.

The date of the next Working Group meeting was set to 12-14 August 2015.

CONCLUSION

The meeting completed successfully the tasks with which it was charged.

After the summary of the Chairman, Mr Tim Andrews, Section Head from the Division of Nuclear Security, IAEA, thanked the Chair and the participants for their fruitful discussions and contributions and closed the meeting. The meeting was adjourned at 13:00 on Friday, 25 February 2015.

**TOPICAL MEETING: NUCLEAR SECURITY PLAN 2014-2017:
IMPLEMENTATION OF THE INTERNATIONAL NETWORK FOR
NUCLEAR SECURITY TRAINING AND SUPPORT CENTRES (NSSC Network)**

23-25 February 2015, VIC Room Board Room A, Vienna, Austria

Monday, 23 February 2015

- 09:30 – 09:45 **Welcome Remarks**
K. Mrabit, Director, Division of Nuclear Security (NSNS), IAEA
- 09:45 – 10:00 **Adoption of the agenda, meeting objectives and introduction of participants**
Chair
- 10:00 – 10:25 **Status Update: NSSC Network**
Chair
- 10:25 – 10:45 **Status Update: IAEA Division of Nuclear Security**
D. Nikonov, NSNS, IAEA
- 10:45 – 11:15 *Break*
- 11:15 – 12:00 **Status Update: Working Groups A, B and C**
Working Group Chairs and Vice Chairs
- 12:00 – 13:30 *Lunch Break*
- 13:30 – 15:30 **Nuclear Security Culture and Sustainability: Information Sharing Session**
B. Jenkins (United States)
C. Torres Vidal (NSNS, IAEA)
R. Evans (NSNS, IAEA)
C. Hobbs (King's College London, UK)
C. Speicher (Germany)
- 15:30 – 16:00 *Break*
- 16:00 – 16:45 **Presentations by Network Members and Observers**
- Cameroon
- Center for Strategic and International Studies (CSIS)
- European Commission, Joint Research Centre (EC- JRC)
- 16:45 – 17:15 **Use of the NSSC Network Portal and e-Learning**
B. Zhu, NSNS, IAEA
I. Suh, NSNS, IAEA
- 18:30 **Reception**
Foyer M02, in front of Board Room A

Tuesday, 24 February 2015

- 09:30 – 10:05 **Session Preview**
Chair
- 09:45 – 10:05 **Plenary Discussion on Annual Meeting of 2016**
Chair, Pakistan
- 10:05 – 10:30 **Updated Network Questionnaire**
N. Bird (WG A Vice-Chair)
J. Conner (WG B Chair)
- 10:30 – 11:00 *Break*
- 11:00 – 11:45 **NSSC Technical/Benchmarking Visit session**
Republic of Korea & Philippines
Nigeria & Ghana
- 11:45 – 12:15 **Integrated Nuclear Security Support Plan (INSSP)**
H. Negm, NSNS, IAEA
- 12:15 – 13:30 *Lunch Break*
- 13:30 – 14:30 **Improving NSSC/Network Effectiveness**
Moderated discussion
- 14:30 - 16:00 **Regional Discussion and Follow Up from WG Recommendations 2014**
Regional groups to meet in breakout rooms
- 16:00 – 16:15 *Break*
- 16:15 – 17:00 **Presentation of Regional Discussions**
Regional group discussion representatives
- 17:00 – 17:15 **Status Update: Asia Regional Network (ARN)**
R. Matsuzawa (Japan) on behalf of ARN
- 17:15 – 17:45 **Meeting report, preparations for WG Meeting 2015**
Chair

Wednesday, 25 February 2015

10:00 – 12:00

Joint INSEN-NSSC Network Session:

Collaboration between Education and Training

Moderator: Chairs of the INSEN and NSSC Network

- Pakistan
- South Africa
- Egypt

12:00 – 13:00

Closing of NSSC Network Annual Meeting

Chair

- Presentation of new chairs and vice-chairs by IAEA
- Announcement of Working Group Meeting date for August 2015

13:00 – 14:00

Joint INSEN-NSSC Network Leadership Meeting

2015 leadership (2014 leadership are invited to join to ensure continuity)

Board Room A

List of Participants

TOPICAL MEETING: NUCLEAR SECURITY PLAN 2014-2017:

IMPLEMENTATION OF THE INTERNATIONAL NETWORK FOR NUCLEAR SECURITY TRAINING AND SUPPORT CENTRES (NSSC Network)

23-25 February 2015, VIC Board Room A, Vienna, Austria

#	Country / Int.Organization	Title	Last Name	First Name	Affiliation
Participants					
1	Algeria	Mr	Fellouh	Abdelhakim Sami	Commissariat a l'énergie atomique (COMENA)
2	Belize	Mr	Lewis	John Percy	Ministry of Foreign Affairs
3	Brazil	Mr	Juacaba Belem	Lilia Maria	Comissao Nacional de Energia Nuclear
4	Cameroon	Mr	Ndontchueng Moyo	Maurice	Agence Nationale de Radioprotection (ANRP)
5	Canada	Mr	Beaudette	Michael	Canadian Nuclear Safety Commission
6	Chile	Ms	Villanueva Zamora	Loreto	Centro de Estudios Nucleares La Reina
7	China	Mr	Zhou	Zhibo	State Nuclear Security Technology Center
8	Cuba	Mr	Díaz Guerra	Pedro Ibrahim	Centro Nacional de Seguridad Nuclear (CNSN)
9	Egypt	Mr	El-Gammal	Wael Abdel Monem	Nuclear and Radiological Regulatory Authority
10	Egypt	Mr	Ahmed	Moustafa	Nuclear and Radiological Regulatory Authority
11	Germany	Mr	Gluschke	Guido	Brandenburg University, Institute for Security and Safety (ISS)
12	Germany	Mr	Speicher	Carsten	Ministerium für Umwelt, Klima und Energiewirtschaft
13	Germany	Mr	Rduch	Alexander	Gesellschaft für Anlagen- und Reaktorsicherheit m.b.H. (GRS)
14	Ghana	Mr	Emi-Reynolds	Geoffrey	Radiation Protection Institute, Ghana Atomic Energy Commission (GAEC)
15	Ghana	Mr	Amanor	Edison	National Nuclear Research Institute
16	Hungary	Mr	Stefanka	Zsolt	Hungarian Atomic Energy Authority (HAEA)
17	Indonesia	Ms	Indragini	Indragini	BATAN
18	Indonesia	Mr	Pramono	Yudi	BAPETEN
19	Italy	Mr	Martellini	Maurizio	Centro di Cultura Scientifica "Alessandro Volta"
20	Italy	Ms	Padoani	Franca	ENEA
21	Italy	Mr	Rusconi	Carlo	SOGIN
22	Italy	Mr	Calabresi	Giovanni	SOGIN

23	Japan	Ms	Matsuzawa	Reina	Japan Atomic Energy Agency (JAEA)
24	Japan	Mr	Naoi	Yosuke	Japan Atomic Energy Agency (JAEA)
25	Jordan	Mr	Abu Taleb	Nooredin	Jordan Atomic Energy Commission (JAEC)
26	Kenya	Ms	Kaboro	Beth	Radiation Protection Board
27	Korea, Republic of	Mr	Choe	Kwan-Kyoo	Korea Institute of Nuclear Nonproliferation and Control (KINAC)-INSA
28	Lithuania	Mr	Livsic	Aleksejus	State border guard service of the Republic of Lithuania
29	Lithuania	Mr	Augutis	Juozas	Laboratory of Nuclear Installation Safety
30	Malaysia	Ms	Kostor	Monalija	Atomic Energy Licensing Board AELB
31	Malaysia	Mr	Kader Ibrahim	Sabariah	Malaysian Nuclear Agency
32	Mauritania	Mr	Deida	Ahmed Bezeid	National authority of radioprotection, safety and nuclear security
33	Montenegro	Mr	Jovanovic	Slobodan	University of Montenegro, Centre for Nuclear Competence and Knowledge Management (UCNC)
34	Niger	Mr	Bako	Boubacar	Ministère de l'intérieur et de la décentralisation
35	Nigeria	Mr	Ofodile	Onyemaechi Nwadinigwe	NAEC
36	Nigeria	Mr	Bamalli	Nu'Uhmanu	ONSA
37	Nigeria	Mr	Bello	Nasiru-Deen Ade	NGA03 - Nigerian Nuclear Regulatory Authority (NNRA), Nigeria
38	Nigeria	Mr	Jonah	Sunday	Centre for Energy Research and Training (CERT)
39	Pakistan	Mr	Haq	Inamul	Pakistan Institute of Engineering and Applied Science Pakistan Atomic Energy Commission
40	Peru	Mr	Medina Flores	Edgard Edilfo	Instituto Peruano de Energía Nuclear (IPEN)
41	Philippines	Ms	Seguis	Julietta E.	Philippine Nuclear Research Institute (PNRI)
42	Romania	Mr	Repanovici	Sorin	Physical Protection and Safeguards Section
43	Russian Federation	Mr	Bulychev	Alexander	Permanent Mission of the Russian Federation to the IAEA
44	Sierra Leone	Mr	Kongo	Josephus J.	Radiation Protection Board Secretariat
45	Slovenia	Mr	Jencic	Igor	Jozef Stefan Institute
46	The frmr.Yug.Rep. of Macedonia	Ms	Mishevaska	Angelina	Radiation Safety Directorate
47	Turkey	Mr	Alim	Fatih	Nuclear Safety Department Turkish Atomic Energy Authority
48	Ukraine	Mr	Proskurin	Dmitry	George Kuzmicz Training Centre
49	United Kingdom	Mr	Bailey	Luke	UK Foreign and Commonwealth Office
50	United Kingdom	Mr	Bird	Norman	National Nuclear Laboratory (NNL)
51	United Kingdom	Mr	Hobbs	Christopher	King's College London (Centre for Science and Security Studies)

52	United Kingdom	Mr	Preston	Joseph	UK Foreign and Commonwealth Office
53	United States of America	Mr	Solit	James	US Department of Energy
54	United States of America	Mr	Conner	James	US Department of Energy, National Nuclear Security Administration
55	United States of America	Ms	Jenkins	Bonnie	US Department of State
56	United States of America	Mr	Sexton	Steven	Defense Threat Reduction Agency
57	United States of America	Mr	Campbell	Craig	US Department of Defense
58	United States of America	Mr	Knight	Stephen	US Department of State
59	Uruguay	Ms	Roldós Serrano	Virginia	Autoridad Reguladora Nacional en Radioprotección
60	Viet Nam	Mr	Phan Thanh	Son	Viet Nam Agency for Radiation and Nuclear Safety
Observers					
1	WINS	Mr	Johnson	Dan	World Institute for Nuclear Security (WINS)
2	WINS	Ms	Battistella	Brunelle	World Institute for Nuclear Security (WINS)
3	WINS	Mr	Howsley	Roger	World Institute for Nuclear Security (WINS)
4	EC-JRC	Ms	Palajova	Zdenka	Nuclear Safety and Security Coordination
5	CSIS	Ms	Squassoni	Sharon	Northern European Acquisitions Section (NEAS)
IAEA					
1	IAEA	Mr	Andrews	Timothy John	NSNS
2	IAEA	Ms	Durczok	Alessia	NSNS
3	IAEA	Mr	Kazenov	Alexey	NSNS
4	IAEA	Mr	Leroy	Lionel	NSNS
5	IAEA	Mr	Nikonov	Dmitriy Michailovich	NSNS
6	IAEA	Ms	Riitsaar	Anne-Marie	NSNS
7	IAEA	Ms	Suh	In Young	NSNS

NSSC Network Leadership**2013**

Network	Chair	Mr Geoffrey Emi-Reynolds	Ghana	Ghana Atomic Energy Commission	g.emi-reynolds@gaecgh.org
	Vice Chair	Mr Alexander Rduch	Germany	Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH	alexander.rduch@grs.de
WG A	Chair	Ms Bonnie Jenkins	United States of America	Department of State	jenkinsbd@state.gov
	Vice Chair	Mr Kwan-Kyoo Choe	Korea, Republic of	Korea Institute of Nuclear Nonproliferation and Control (KINAC)	harim@kinac.re.kr
WG B	Chair	Mr Roger Howsley	WINS	WINS	roger.howsley@wins.org
	Vice Chair	Mr Michael Beaudette	Canada	Canadian Nuclear Safety Commission	Michael.beaudette@cnsa-ccsn.gc.ca
WG C	Chair	Mr Rachid Mellouki	Morocco	Centre national de l'énergie, des sciences et des techniques nucléaires (CNESTEN)	mellouki23@yahoo.fr
	Vice Chair	Mr Edison Amanor	Ghana	Ghana Atomic Energy Commission	e.amanor@gaecgh.org

2014

Network	Chair	Ms Bonnie Jenkins	United States of America	Department of State	jenkinsbd@state.gov
	Vice Chair	Mr Alexander Rduch	Germany	Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) mbH	alexander.rduch@grs.de
WG A	Chair	Mr Kwan-Kyoo Choe	Korea, Republic of	Korea Institute of Nuclear Nonproliferation and Control, International Nuclear Nonproliferation and Security Academy (KINAC-INSA)	harim@kinac.re.kr
	Vice Chair	Mr Norman Bird	United Kingdom	National Nuclear Laboratory (NNL)	norman.bird@nnl.co.uk
WG B	Chair	Mr James Conner	United States of America	U.S. Department of Energy / National Nuclear Security Administration (DOE/NNSA)	james.conner@nnsa.doe.gov
	Vice Chair	Ms Monalija Kostor	Malaysia	Atomic Energy Licensing Board (AELB)	monalija@aelb.gov.my
WG C	Chair	Mr Edison Amanor	Ghana	Ghana Atomic Energy Commission (GAEC)	e.amanor@gaecgh.org
	Vice Chair	Mr Inamul Haq	Pakistan	Pakistan Institute of Engineering & Applied Sciences (PIEAS)	inamulhaqkhan@hotmail.com

2015

Network	Chair	Ms Bonnie Jenkins	United States of America	Department of State	jenkinsbd@state.gov
	Vice Chair	Mr Yosuke Naoi	Japan	Japan Atomic Energy Agency (JAEA)	naoi.yosuke@jaea.go.jp
WG A	Chair	Mr Kwan-Kyoo Choe	Korea, Republic of	Korea Institute of Nuclear Nonproliferation and Control, International Nuclear Nonproliferation and Security Academy (KINAC-INSA)	harim@kinac.re.kr
	Vice Chair	Mr Norman Bird	United Kingdom	National Nuclear Laboratory (NNL)	norman.bird@nnl.co.uk
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	Vice Chair	Ms Franca Padoani	Italy	Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)	franca.padoani@enea.it
WG C	Chair	Mr Inamul Haq	Pakistan	Pakistan Institute of Engineering & Applied Sciences (PIEAS)	inamulhaqkhan@hotmail.com
	Vice Chair	Ms Loreto Villaneuva	Chile	Chilean Nuclear Energy Commission	lvillanu@cchen.gob.cl