



**GNSSN**

Global Nuclear  
Safety and Security  
Network

# The Global Nuclear Safety and Security Network- GNSSN

14th Steering Committee Meeting summary report

*20 - 21 May 2019, Vienna, Austria*

OFFICE OF SAFETY AND SECURITY COORDINATION

IAEA | NUCLEAR SAFETY AND SECURITY DEPARTMENT

## A. Opening Session

- ***Welcome by Mr. J.C. Lentijo, DDG, NS Department***

Deputy Director General Juan Carlos Lentijo opened the 14th steering committee (SC) meeting of the Global Nuclear Safety and Security Network (GNSSN). He thanked the chairman and members of the SC for their continuous support and feedback. Mr. Lenjito reaffirmed the role of GNSSN as an effective tool helping Member States to strengthen nuclear safety and security at all levels. He further acknowledged that Member States have often recognized GNSSN's role in enhancing safety and security in the Board of Governors' discussions and in the General Conference Resolutions.

Mr. Lentijo reported on the progress in the development of a concept for a consolidated safety plan. He highlighted that these plans will facilitate the effective use of the Agency's services to strengthen the safety infrastructure in Member States. He further emphasized that such a plan would ensure that activities conducted by different technical divisions of the Agency are coherent, consistent and complement each other. Mr. Lenjito noted that the 14th SC meeting will discuss the development of a curriculum for a Master's Degree in Nuclear Safety and Security and regional initiatives in Asia, organized and initiated by three different universities. He conveyed his thanks to the United States for supporting the development of the global education and training resources (GETR). Furthermore, he thanked all other GNSSN donors: Republic of Korea, Japan, Spain, France, Norway and the European Commission for their continuous support to the different projects and networks.

- ***Welcome by Mr. Khammar Mrabit, Chairman GNSSN***

Mr. Mrabit noted with satisfaction the revision of the capacity building methodology and the associated DPP. He congratulated the team involved in the development of the Safety Report on Nuclear Safety Knowledge Management, which is in the process of being published. With great satisfaction, he also thanked the Secretariat for its efforts to develop the curriculum of the Master's Degree in Nuclear Safety and Security and encouraged the Agency to facilitate its implementation in Member States. He acknowledged the approval of the DPP on the Technical Report on the Nuclear Safety and Security Interface. Mr. Mrabit welcomed, endorsed and confirmed that the new IAEA approach to develop consolidated plans for safety is highly needed to strengthen the safety infrastructure in Member States. He acknowledged the successful implementation of over 70 regional and national workshops through the Networks Management and Partnership Section. Mr. Mrabit thanked Mr. Caruso for his leadership and Mr. Guo and all his staff, in particular the Technical Officer Mr. Chaari, for their continuous support to the networks and Member States.

He also suggested to:

- i) perform an assessment of the GNSSN programme and its impact; and
- ii) revise the GNSSN SC terms of reference based on the lessons learned and the objectives to be achieved, in order to enhance the activities conducted under the GNSSN programme.

- ***Meeting Objectives***

Mr. Caruso, Director of the Safety and Security Coordination Office, outlined the following objectives based on the recommendations of the last SC meeting:

- Promoting legal instruments
- Harmonizing regulatory frameworks
- Outcome of Technical Meeting on Nuclear Safety and Security Interface
- Regional initiative towards establishing a Master's Degree on Nuclear Safety and Security under the INSEN umbrella.
- IAEA capacity building activities
- Update on the development of various TECDOCs
- Agency-organized international conferences
- Consolidated plans for safety
- Recommendations and suggestions on the GNSSN Plenary meeting agenda to be held on the sidelines of the General Conference

Finally, Mr. Caruso asked Mr. Mrabit, as the GNSSN's Chairman, to formulate concrete suggestions and recommendations throughout the meeting.

## **B. Presentations**

### **Radiation Safety Programme: Ongoing Activities and Priorities**

Mr. Peter Johnston, Director of NSRW briefed the SC members on the main priorities and activities of the IAEA's programme on radiation safety. He reported on the recently released safety guides supporting BSS (GSR part 3): SSG-46, GSG-7, GSC-, GSG-9, GSG-10.

He also briefed on the IAEA peer reviews and advisory missions that took place since the last briefing in 2018. He informed the SC of the successful return of the Safeguards Analytical Laboratory (SAL) to the Austrian Institute of Technology (AIT), assisted by the Radiation Safety Technical Services. He highlighted that the Agency's "Strategic Master Plan for Environmental Remediation of Uranium Legacy Sites in Central Asia" was instrumental for securing pledges from the European Commission, Belgium, Lithuania, Norway, Switzerland and the United States of America. Remediation works are expected to start in 2019. He updated the SC on the various publications including the publication of the TECDOC "Methodology for the Systematic Assessment of the Regulatory Competence Needs (SARCoN) for Regulatory Bodies of Radiation Facilities and Activities", CSS approval of the draft Safety Guide DS459 "Management of Residues Containing Naturally Occurring Radioactive Material from Uranium Production and Other Activities" and approval of safety standards committees of draft Safety Guide DS468 on "Remediation Process for Sites and Areas with Residual Radioactive Material from Past Activities and Accidents". He further provided an overview on the upcoming Technical Meetings on safety of disposal of disused sealed radioactive sources in near surface and geological disposal facilities, the revision of IAEA Safety Reports series no. 50 "Decommissioning strategies for facilities using radioactive material" and the first Technical Meeting on liabilities and long-term responsibilities

during all phases of the development of a geological disposal facility. He further informed the SC on the resources needed for the 2019 International Conference on Effective Nuclear and Radiation Regulatory Systems.

### **Emergency Preparedness and Response Programme: On-going Activities and Priorities**

Ms. Elena Buglova, DIR-IEC presented the main priorities and activities of the IAEA's programme on Emergency Preparedness and Response (EPR). She noted the increased use of Emergency Preparedness and Response Information Management System (EPRIMS) and the increased number of requests for assistance in strengthening EPR arrangements. She updated the SC on the new features of USIE and EPRIMS. Moreover, she highlighted EPR programme's priority in assisting Member States with the implementation of GSR Part 7, as well as the implementation of exercise programmes.

### **Nuclear Security Programme: Ongoing Activities and Priorities**

Mr. Tierney briefed on the main priorities and activities of the IAEA programme on Nuclear Security. Mr. Tierney explained different capacity building activities implemented by the division to strengthen the nuclear security regime in Member States. He highlighted the support of the nuclear security networks and their roles, the peer reviews and advisory missions as well as the preparation status of different conferences.

### **Nuclear Installations Safety Programme: On-going Activities and Priorities**

Mr. Shokr, Acting Director of Division of Nuclear Installation Safety briefed the SC on the main priorities and activities of the IAEA's programme on nuclear installations safety. He noted that 40 safety standards documents are under different stages of development (new, revisions) along with more than 40 safety reports and TECDOCs. He briefly addressed the NSNI ongoing activities on safety review services by highlighting the actions taken to i) improve preparation, conduct, and assessment of the missions (e.g. revised guidelines, KPIs, information management); ii) ensure enough qualified reviewers (e.g. training, ensuring a sized roster of reviewers); iii) create synergies and streamlining safety review services; iv) improve communication in relation to the mission findings (periodic reports and sharing good practices). He also specified NSNI's work to enhance member states safety infrastructure through capacity building activities (e.g. training packages for embarking countries, e-learning material and support building regulatory competence).

### **The Safety and Security Interface**

Mr. Guo provided an overview of the current status, challenges and recommendations of the Technical Meeting on Safety and Security Interface. The primary focus of his presentation was to update the SC on the DPP and the Technical Report Series 1000. He also noted that the SSG-34 and SSG-39, on design of electrical system and I&C for NPP, could be considered as safety and security interface documents/publications. He also acknowledged that the SSG16, NSS19 and

SSG44 provide a holistic view of elements that needs to be considered while developing a safety and security infrastructure.

He emphasized that the IAEA General Conference resolutions GC(61)/RES/8 and GC(61)/RES/9 both requested that “the Secretariat, while recognizing the distinction between nuclear safety and nuclear security, to continue facilitating - in close cooperation with Member States - a coordination process to address their interfaces in a timely manner, and encourage the Agency to develop safety and security publications, ensure consistency and to foster culture accordingly”. The IAEA GC (e.g. GC(62)/RES/6) and Board of Governors highlighted the importance of this interface and requested the IAEA to continue to facilitate, in close cooperation with Member States, a coordination process to address the interfaces in a coordinated and timely Manner. Mr. Caruso also addressed the various challenges identified by the participants as well as the parallel recommendations made to the IAEA.

Mr. Freeman raised a concern regarding the number of safety and security interface documents being planned or drafted without any corresponding strategy or plan that reflects the existing document structure. He recommended that the IAEA consider asking the Commission on Safety Standards (CSS) and the Nuclear Security Guidance Committee (NSGC) for guidance on this issue. Mr. Caruso confirmed that INSAG and ADSEC are working on drafting a high level (strategic) interface document on the subject and noted that the Agency will be preparing documents according to Member States’ needs, addressing the interface using this new collection TRS 1000. He underscored this matter to be a complex subject and reassured the SC that related efforts are proceeding forward accordingly.

### **Master’s Degree on Nuclear Safety and Security in Member States**

Mr. Nikonov, Education Officer from the Division of Nuclear Security, provided an overview of the Model Academic Curriculum in Nuclear Security. The primary focus of his presentation was to inform on the Secretariat’s efforts in reviewing the curriculum of the Master’s Degree on Nuclear Security. In this regard, he outlined the core modules of the master’s programme and the certificate programme. Furthermore, he reported on Member States’ efforts (Malaysia, Indonesia, Thailand) regarding the establishment of a Master’s Degree in Nuclear Safety and Security in the Asian region. He highlighted that building a sustainable nuclear security regime in Member States depends on overall efforts to ensure adequate workforce and human resources. He also pointed out that the development of a diploma programme in Member States gained more support than a specific master’s degree programme.

Mr. Lignini further inquired on the availability and provision of IT courses addressing cyber security in the master program. Mr. Nikonov confirmed that the current programme has a heavy focus on computer security and the programs are subject to further modifications and are open and available for universities. Malaysia further inquired on the involvement of personnel from regulatory bodies in the delivery of the curriculum. Mr. Nikonov confirmed that Malaysia has already been involving the regulatory body staff in the implementation of various post graduate programmes. As Morocco has received an expert mission where the objectives of this project were

presented, the GNSSN chairman informed the SC that Morocco is interested in the establishment of such education programme and confirmed that AMSSNuR will take lead in the coordination of its implementation at the national and the regional level.

### **International Legal Instruments**

The objectives of the presentations were to discuss the activities carried out by the Agency to support the CNS, the CPPNM, the Convention on Early Notification of a Nuclear Accident and the Convention on Assistance in the Case of a Nuclear or Radiological Emergency.

Mr. Svab outlined the activities carried out by the Secretariat to support CNS and informed the SC on the future key promotional/educational activities being held in 2019.

Mr. Baciu briefed the SC on the activities to support the implementation of the Convention on Early Notification of a Nuclear Accident and the Convention on Assistance in the Case of a Nuclear or Radiological Emergency. He reported on various Agency activities such as meetings, workshops, trainings, outreach exercises and online training. In this regard, he highlighted that IEC training materials are more accessible to the international community through different platforms which enhance awareness of the relevant conventions. He further briefed the SC on the trends of participation in ConvEx Exercises.

Ms. Scotto de Cesar informed the SC on key activities related to the Convention on the Physical Protection of Nuclear Materials and its Amendment and presented the provisional Roadmap to the 2021 Conference of the State Parties to the CPPNM Amendment. Mr. Tonhauser underlined that within the Legislative Assistance Program, various national and regional workshops are organised to raise awareness in Member States about all international legal instruments. Ms Malgorzata informed that some countries have difficulties contacting regulatory authorities of neighbouring states and asked whether specific activities are conducted to help strengthen communication between regulators. Mr. Tonhauser noted that as far as OLA is concerned, OLA is organising a meeting on the role of legal advisor in nuclear regulatory bodies providing Member States with the opportunity to share and consolidate experience from various regions.

### **Updates on the School on Leadership for safety & PRASC**

Ms. Ramirez, Senior Safety Officer, Programme and Strategy Coordination Section provided an update on the IAEA School of Nuclear and Radiological Leadership for Safety. She underscored the importance of Leadership for Safety in IAEA Safety Standards. She further emphasised that the Leadership School is aimed towards early career professionals. She outlined the school concept and case studies and emphasized on the new interactive approach used in the workshops which included a repertoire of real case scenarios. She gave an overview of the results achieved through the schools and outlined highly positive appreciation responses from the participants. She further informed the SC about the upcoming activities and future plans to widen the scope of the schools.

Mr. Lignini recommended to follow-up with the participants of the School on Leadership for Safety in order to gain more insight into their progression within the organization and assess the effectiveness of the schools.

Ms. Ramirez informed the SC on the growing trend of Member States requesting IAEA Peer Review and Advisory Service and the functions of PRASC (Peer Review and Advisory Service Committee). She noted that in 2016-2017 an assessment methodology of all the departmental peer reviews and advisory services was developed and conducted, and their results were discussed with the Member States during a technical meeting. She summarized the assessment methodology and categorization of the services. One of the outcomes of this analysis, is for example that GSR Part 1, Rev-1 is a cross cutting standard as it is referenced in IRRS, OSART, AMRAS, ARTEMIS, ISCA and SCCIP. She concluded that these services are a key Agency resources and require significant efforts from the secretariat and Member States and further work remains to be done in order to enhance the processes.

### **Regional Network**

SC members were presented with an overview and updates of work programmes from regional networks. Mr. Guo reported on the achievements of the Asian Nuclear Safety Network (ANSN). He informed the SC on the implementation of a new ANSN strategy developed to support further promotion and implementation of the IAEA Safety Standards. He highlighted the progress on implementing the ANSN self-assessment is key in developing an adequate safety infrastructure. The ANSN will further take a leading role in providing a platform for dynamic and interactive knowledge networking in the region and beyond, in cooperation with other regional networks (e.g. GNSSN, FNRBA, ANNuR and FORO) and with other relevant organizations as appropriate.

Mr. Mosbah informed the SC on the current status and progress of ANNuR. He outlined the main objective of ANNuR and highlighted the Inter-regional TC project for 2020-2021. He briefed on the outputs of Technical Meetings which included the development of the strategic plan 2016 – 2020, ANNuR's Terms of Reference of in Arabic and English, harmonization of EPR national plans and development of a strategy on Capacity Building as well as the implementation of Nuclear Safety Knowledge Management programs.

On behalf of Mr. Simo, Mr. Kunjeer reported on the accomplishments of the FNRBA describing the focus, strategic plan and relevant publications. He highlighted the FNRBA's particular focus is on drafting of national reports requested under international instruments, the Pelindaba Treaty. He briefed the SC on the FNRBA's contribution paper which presents the proposed activities and projects addressing the needs of the forum of nuclear regulatory bodies in Africa in line with its strategic action plan (2016-2021) to attract the support of potential partners and raised awareness of policy makers in Africa. He also highlighted that the report was developed through the contribution of the coordination meeting of FNRBA gathering governance level, technical level and partners of FNRBA with the support of the IAEA Secretariat.

Ms. Sneve briefed the SC on the progress and future plans of the EuCAS Network. An interactive workshop organized by EuCAS in 2018, first one focused on the licensing of remediation of

uranium sites activities and second on networking and infrastructure building of the regulatory bodies in the region. Regulations in various countries make it difficult to initiate a dialog between regulators in the region. EuCAS has noted this issue and is working towards contributing to harmonize these regulations. All Member States were provided with a questionnaire including those who were unable to attend the workshop.

FORO activities and the partnership with the IAEA was addressed by Ms. Boretta. FORO is aiming at creating a robust scientific programme with the clear mission of promoting safety. Ms. Boretta informed the SC on the successfully completed FORO projects. One of the new documents developed by FORO addresses the safety culture of practices involving ionising radiation. FORO invited the participants to attend the side event. FORO and the IAEA work hand in hand as strategic partners to enhance radiation protection and nuclear safety and security regionally.

Ms. Afshar-Tous raised a question to FORO regarding the translation of their documents in French and Arabic with the objective to benefit a wider range of countries. The chair highlighted the resource constraints at the Secretariat regarding translations and requested support from other organizations with translations. The AAEA representative responded that one of their missions is to translate documents in Arabic.

Mr. Hawwari noted, as a member country of ANNuR, that Jordan was one of the first independent regulators established that used ANNuR resources during the development of the first research reactor in 2007. He further acknowledged that such a network is very important for embarking countries and reported on the achievement in developing regulatory documents in Arabic. He pointed out that the Jordanian translation of documents in Arabic is using universal technical and legal terms, which could be beneficial for other countries. He confirmed that Jordan will continue collaborating with ANNuR to provide more Arabic translations of regulatory documents and make them accessible and available to other Member States in the region.

Mr. Wanner commended the work carried out by the different regional networks and on the effectiveness of their collaboration. He expressed his appreciation of the side events, which are organized during the IAEA General Conference (GC), and showed interest in organizing a meeting with the chairs of all regional networks at the upcoming GC. The GNSSN chairman supported this idea and urged the Secretariat to organize a separate meeting with the chairs of the regional networks during the upcoming General Conference.

### **Capacity Building**

Mr. Luciani from NSRW reported on the E&T activities in radiation, transport and waste safety. He informed the SC that NSRW organizes 30 courses every year and noted that the courses involve mainly local lecturers, which could be recognized as a success and major step towards the sustainability of these courses. Mr. Luciani also highlighted that their main objective is to assist Member States to develop/implement a national strategy for E&T in radiation, transport and waste safety in line with IAEA safety standards.

Mr. Recio from NSNI presented the recent developments of capacity building activities in nuclear safety which are led by the Regulatory Activities Section of NSNI. He briefed on the current progress made toward the development of performance indicators to assess the implementation of the IAEA strategic approach to education and training in nuclear safety 2013-2020. These indicators will be crucial to define the concepts and approaches for a new strategic approach beyond 2020.

Mr. De la Vega, Emergency Preparedness Coordinator at the IEC outlined the Capacity Building Centers (CBC) concept and briefed the SC on the established CBCs for EPR. He also briefed them on a new concept and revision of the CBC terms of reference. He concluded by highlighting the activities planned in the short and medium term to enhance/ strengthen the EPR awareness in Member States.

Mr. Nikonov briefed the SC on the IAEA programme and assistance for human resource development in nuclear security. He reported that NSNS training catalogue on NUSEC, which is currently being revised contains 80 items. He reported that in the last 12 months, NSNS has held 124 training activities which were attended by over 2400 participants from 149 States. With regard to e-learning, he also emphasized that 877 users from 104 States completed a combined 3681 learning hours. Mr. Nikonov highlighted that 16 nuclear security e-learning modules will be made available in all UN official languages by 2021. TECDOC 1734, Establishing and Operating a Nuclear Security Training and Support Centres (NSSC), highlight the national commitment and essential elements of a State's nuclear security regime, how to organize an NSSC, as well as a self-assessment worksheet for existing organizations and other job aids. He outlined the IAEA's bilateral support for NSSCs and NSSC Network by supporting joint complimentary activities. He also mentioned that the IAEA Nuclear Security Series (NSS) No. 12 is currently under revision and will be published after the input from INSEN members and the revision of the Secretariat.

Mr. Freeman inquired about the Secretariat's views of the definition of sustainability with regards to capacity building. The Chairman reflected on the concept of sustainability for a resistant safety infrastructure and highlighted that "sustainability" has a multitude of interpretations. Mr. Nikonov continued that building sustainable capacity is providing the appropriate bodies with training material which need to be incorporated within the organization's trainings programme in order to sustain the required skills without further external input or Agency actions. He noted that the availability of the master's programme in universities, serves the potential to sustain the knowledge on national and regional level. He confirmed that the availability of national resources for education and training will lead to the maintenance and further development of capacities and capabilities. However, he emphasized that IAEA support and assistance is highly needed in the early stages of developing an infrastructure for E&T. Mr. Recio further added that Agency addresses sustainability by enhancing its collaboration with Member States ensuring their ownership and leadership of projects for E&T on Capacity Building in general.

## **Regulatory Experience Management**

Mr. Recio updated the SC on the status of the ongoing work for producing an IAEA TECDOC on Regulatory Experience Management Practices. This TECDOC is a response to the recommendations of the International Conference on Effective Nuclear Regulatory Systems: “Transforming Experience into Regulatory Improvements” (Ottawa, Canada, 2013), where it was highlighted that regulatory bodies do not have a systematic way of collecting, analysing and sharing regulatory experience. He summarized the challenge faced in defining “Regulatory experience” and updated the SC on its interim definition:

- information and knowledge collected by the regulatory body that can be used to improve effectiveness and the efficiency of the regulatory process;
- Sources of regulatory experience can be:
  - a) internal, from regulation of facilities and activities
  - b) external, national and international information and knowledge relevant for regulating facilities and activities

Mr. Recio highlighted that this TECDOC is a reflection rather than an additional requirement for Member States or other regulatory bodies. He concluded that proactive approach to managing regulatory experience, supported by senior management leadership and strong individual commitment is indispensable. He continued that, currently, there are no dedicated reporting systems in place to share regulatory experience. Mr. Recio stressed that exploring ways to enhance existing reporting systems and networks of regulators could be the simplest approach in the short term.

### **Nuclear Safety Review: Status of the 2019 Report**

Mr. Booth updated the SC on the identified trends, priorities and related activities occurred in 2019 with regards to Nuclear Safety. He reported an increase in requests for peer review and advisory services and ARTEMIS services. In addition, he highlighted the substantial progress in strengthening nuclear and radiation safety infrastructure shown by majority of Member States, along with increased interest in SMRs and transportable NPPs and increase in requests for support of leadership and management for safety. He emphasized the continued need for support of national provisions for E&T, qualification and competence. He noted that the Agency will assist MS in applying GSR Part 3 as a key priority as well as assist MS in the implementation of GSR Part 7. He briefed the SC on the recent publication of SSR – 6 (Rev. 1) and noted that 63 peer review and advisory services were also conducted.

The Agency will promote the CNS and the Joint Convention and support contracting parties when requested to enhance their effective participation in Review Meetings. The Chair thanked Mr. Booth for his comprehensive and informative presentation.

### **Regulatory Effectiveness Conference: Status of the forthcoming International Conference**

Mr. Beaupre briefed the SC on the International Conference of Effective Nuclear and Radiation Regulatory Systems. He informed the SC that this year’s conference is taking place on 04-07 November 2019 in the Hague, the Netherlands at New Babylon Meeting Center. To date, over 150 applicants from 60 Member States have registered for the Conference and over 120 abstracts have

been submitted. He invited the participants of SC to register to the conference, as well as encouraged staff in their organization to register and submit abstracts.

Mr. Mallick highlighted the lack of mechanisms/procedures to implement follow-up by the Agency as well as by Member States as recommended by previous conferences. He requested GNSSN to help develop a more comprehensive procedure to assist Member States in providing a post conference follow up. The Chairman encouraged the GNSSN to further inquire and propose a systematic feedback system in response to Mr. Mallick's concern.

### **Nuclear Security: Status of the forthcoming International Conference**

Mr. Chen presented the efforts made by the Agency for the preparation of the International Conference on Nuclear Security (ICONS) 2020. He acknowledged that ICONS 2020 is one of the priorities of the Agency and its Member States. He emphasized that the intended audience of the conference includes: ministers, policy makers, senior government officials, national authorities of members states, nuclear security experts, international and regional organizations, relevant industrial organizations, civil society etc. He emphasized that the participation at the ministerial level is strongly encouraged to demonstrate the high-level commitment from Member States.

The five high level policy topics that were selected during the Programme committee meetings include:

- International legally and non-legally binding instruments for nuclear security;
- the role of the IAEA in nuclear security;
- national nuclear security regimes;
- emerging technologies and the digital age;
- the international cooperation in information exchange, sharing of good practices and broader experience to enhance nuclear security.

The full announcement, with all the details of the conference is available now online: <https://www.iaea.org/events/nuclear-security-conference-2020>. He stressed that computer security is one of the main focuses of the upcoming conference.

The chair thanked Mr. Chen for his informative presentation and expressed his support and encouragement for the conference.

### **International Regulators Conference on Nuclear Security: Status of the forthcoming International Conference**

Mr. Mrabit informed the GNSSN on the next International Regulators Conference on Nuclear Security to be held in Africa for the first time. He highlighted that the conference will be focusing on aspects of sustainability relating to the security regime including the competence for nuclear security. He acknowledged the contribution of the Agency in the organization of this conference. He also emphasized cyber security to be a key topic of discussion at the conference. He invited the participants of the 14th SC to attend the conference in Marrakesh, Morocco.

## **Consolidated Plan for Safety**

Mr. Caruso briefed the SC members on the efforts made by the Secretariat to enhance the coordination between the departments of TC and NS, for strengthening the safety infrastructure in Member States, a new approach which will relate to the development of the consolidated plan for Safety (CPS).

The Chair congratulated the Secretariat on their initiative and acknowledged that the NS-TC collaboration is a pragmatic way to develop/strengthen safety in Member States. Mr. Caruso further added that currently the Task force is in the process of identifying the pilot countries. The pilot countries will provide an opportunity for the Agency and Member States to identify strength and weaknesses in the plans. The lessons learned will be considered in improving the Agency's new approach to address all safety aspects for radiation and nuclear facilities and activities.

Mr. Lignini asked if this new approach addresses only the regulatory aspects of the national infrastructure for safety. Mr. Caruso emphasized that this plan will cover all aspects of nuclear and radiation safety and confirmed that this initiative's goal is to improve the overall safety infrastructure with regulators being a primary focus as they provide a concrete foundation for a safety infrastructure.

Mr Freeman raised a question regarding the budget required to implement the current plan and the number of staff to be involved. Mr. Caruso assured the SC that this project does not require new resources at this time and does not aim to create more work but focuses mainly on coordinating the activities carried out by various divisions within the Agency. He also noted that if the existing resources should not be sufficient then the task force will establish priorities.

Ms. Rathod, from the perspective of a donor country, suggested more transparency and sharing information on this new approach.

The chair noted that this initiative will most likely require more resources based on his past experience. He emphasized that the task force will have to assess the countries' needs and identify their gaps and weaknesses in order to benefit from the Agency's assistance and support accordingly. He highlighted that this project requires resources and extensive cooperation from Member States and committed donors. He stressed that the success of this initiative depends on the commitment of the all stakeholders. He once again congratulated the Secretariat and noted that joint task force commitment is positive, however he highlighted that the donors should be involved in a timely manner.

## **Regulatory Infrastructure Development Project (RIDP), Status and Way Forward**

Mr Mansoux and Mr Kahliq reported on the status and way forward of the Regulatory Infrastructure Development Project (RIDP). Mr Mansoux outlined the phases of development of RIDP in particular its design and implementation. He briefed the SC on several RIDP projects which have either been completed, are on-going or being developed. He noted that the project is

being implemented in line with the consolidated plan for safety with some flexibility in addressing the needs of participating countries in a timely and effective manner. Mr. Khaliq informed the SC on the various RIDP regional workshops. He stressed that the demand for additional support by RIDP beneficiary countries, as well as other States, is increasing. RIDP funding has already shown to be instrumental in improving the regulatory infrastructure for both radiation safety and nuclear security in the participating Member States.

The Chair appreciated the collaboration between NSRW and NSNS and the high degree of flexibility in the implementation of the RIDP activities. He suggested a collaboration of countries with underdeveloped infrastructure with other countries in a region with a more mature infrastructure. He also suggested that the RIDP should be part of the overall consolidated plan for safety in order to avoid duplication and overlap as well as to optimize the resources.

Mr. Freeman encouraged colleagues at the SC to contribute to this project and expressed his appreciation of the IAEA's efforts.

Mr. Mansoux further added that the RIDP activities will be part of the consolidated plans for safety. He assured that the risk of overlaps and duplications will be minimized with these approaches. Mr. Khairuddin inquired whether the RIDP also included education and training as a component of the project to help sustain the knowledge transfer. Mr. Mansoux confirmed that currently RIDP does not have educational component within the program, but education and training will be included as a component in the consolidated plan for safety.

### **GNSSN Programme Assessment**

The Chair and the participants of 14th SC meeting exchanged their views on the GNSSN programme assessment. Mr. Guo stressed the need to evaluate the work which has been conducted and milestones achieved in the past and to involve all stake holders and donors in this assessment. He emphasized the need to review the impact of GNSSN activities in Member States. The Chair reiterated the need to reflect all the activities conducted to this date within the GNSSN portfolio and emphasized the importance of initiating a dialog amongst chairs of the regional networks and to involve them in the Evaluation. This will allow the GNSSN to benefit from their good practices and experiences. Ms. Rathod highlighted that this discussion amongst regional networks is very important. As a donor country she expressed that USA would like to see results in the recipient countries. Mr. Lignini requested the Secretariat to define criteria and indicators to be able to assess the impact. Mr. Chaari noted that the current strategic approach includes anticipated outcomes and indicators and highlighted that there is no need to redefine them at this stage.

### **GC Plenary Meeting Agenda**

The Secretariat and the SC discussed the selection of the main topics of the upcoming GNSSN Plenary Meeting which will take place on 19 September 2019, during the 63rd IAEA General Conference. The SC agreed to be share and suggest topics to the Secretariat by latest mid-June.

## Regulatory inspections

Mr. Horvath briefed the SC on regulatory inspections. He referred to the NSS No.14 para 3.12, which stated that “the regulatory body should verify continued compliance with nuclear security regulations and relevant authorization conditions, notably through periodic inspections and ensuring that corrective action is taken, when needed.” He elaborated on the specifics of the regulatory inspections and highlighted the involvement of other competent authorities in some countries and the challenges of confidentiality/ management of security sensitive information, including areas within security management and security system.

Mr. Kobetz reported on the challenges with implementing regulatory inspector training activities. He briefed on the hands-on regulatory inspector training for NPPs and on the regulatory inspection of research reactors. He stressed that the different workshops are planned in accordance with the availability of extra budgetary funding and the availability of Zwentendorf's facilities. He also mentioned the challenges faced in maintaining a pool of qualified experts to continue organizing such workshops.

Mr. Bosnjak updated the SC on the progress of the TECDOC on Notification, Authorization, Inspection and Enforcement for the Safety and Security of Radiation Sources. He emphasized that a harmonized approach in regulating radiation sources facilities and activities will improve the efficiency and effectiveness of the regulatory body's work.

## C. Recommendations of the 14th GNSSN SC Meeting

The SC approved the following recommendations, as suggested by the Chair.

- GNSSN SC noted with satisfaction the revision of the capacity building methodology and that the secretariat is currently reviewing the relevant DPP.
  - It is recommended that an update in the Capacity Building (CB) methodology be made by the Secretariat at the plenary meeting on the side-line of the next IAEA General Conference;
  - It is also recommended that the concept and definition of the CB methodology be applied consistently throughout the whole Department of Nuclear Safety and Security;
  - GNSSN congratulate the team involved in the development of the Safety Report on Nuclear Safety Knowledge Management, which is in the process of being published. The model workshop which has been developed based on this report has been implemented with the support of and in coordination with the Technical Cooperation Department in Bulgaria, Germany, Tunisia and Thailand.
    - GNSSN recommends that the Knowledge management, as a pillar of the Capacity Building, be further expanded to include the provision of expert

missions to advise countries how to develop and sustain a knowledge management programme for nuclear safety.

- GNSSN notes with satisfaction, the Secretariat efforts to develop and implement the curriculum of the master's degree on nuclear safety and security.
- GNSSN notes the approval of the DPP, by the Coordination Committee to develop the technical report on the nuclear safety and security interface, summarizing the outcomes of the Technical Meeting.
  - It is recommended that the Secretariat seek advice from the CSS and NSGC on the status of such reports and other documents in the hierarchy of the Safety Standards Series and Nuclear Security Series.
- GNSSN noted the new IAEA approach to develop consolidated plans for safety and requested the opportunity to provide feedback after the results from a pilot implementation have been gathered.
  - It is recommended that the Secretariat (NS and TC) consider the implementation of this approach based on the experience gained from the past model project on upgrading radiation protection infrastructure;
  - The Secretariat should brief Member States on the plans (CPS) during the upcoming GNSSN SC and consult with donor countries, as necessary to avoid duplications and look for opportunities of cooperation.
- GNSSN notes with satisfaction the good work of Secretariat implementing over 70 regional and national workshops as well as the high implementation rate of the previous actions recommended by GNSSN.
  - It is recommended to invite the chairs of regional Networks/associations to the GNSSN SC meetings (at least once per year)
- GNSSN took advantage of the presence of the DDG and made the following two recommendations:
  - To perform an assessment of the GNSSN programme and activities, and its impact on safety and security, nationally, regionally and globally;
  - To review and revise the GNSSN and the Steering Committee terms of reference and update the strategic and governance plans based on the lessons learned, the challenges ahead of us, and the future objectives to be achieved;
    - A Core Group will revise the GNSSN SC ToR and develop a corresponding survey: USA, UK, France, Germany, Malaysia, Morocco and IAEA Scientific Secretary. Regional networks representatives are encouraged to take part of the revision of these documents.

- GNSSN notes with satisfaction the Secretariat efforts in assisting Member States developing regulatory inspection programmes in line with the IAEA safety standards and security guidance;
- GNSSN SC members to submit proposals for the GNSSN plenary meeting agenda latest by 5 June 2019.

## **The Global Nuclear Safety and Security Network (GNSSN) Steering Committee Meeting**

C-C4, C Building 20-21 May 2019 Vienna International Center

### **Agenda**

#### **Monday, 20 May 2019**

- 09.30**                      **Opening Session**
- *Welcome by Mr J.C. Lentijo, DDG, NS Department*
  - *Welcome by Mr Khammar Mrabit, Chairman GNSSN*
  - *Introduction of participants*
- 09.45-09.50**                **Meeting Objectives**
- **Mr Gustavo Caruso** – DIR-NSOC
- 09.50-09.55**                **Radiation Safety Programme: Ongoing Activities and Priorities**  
Briefing on the main priorities and activities of the IAEA's programme on radiation safety
- **Mr Peter Johnston** – DIR-NSRW
- 09.55-10.00**                **Emergency Preparedness and Response Programme: On-going Activities and Priorities**  
Briefing on the main priorities and activities of the IAEA's programme on EPR
- **Ms Elena Buglova** – DIR-IEC
- 10.00-10.05**                **Nuclear Security Programme: Ongoing Activities and Priorities**  
Briefing on the main priorities and activities of the IAEA's programme on Nuclear Security
- **Mr Jason Tierney** – A/DIR-NSNS
- 10.05-10.10**                **Nuclear Installations Safety Programme: Ongoing Activities and Priorities**  
Briefing on the main priorities and activities of the IAEA's programme on safety of nuclear installations
- **Mr Amgad Shokr** – A/DIR-NSNI
- 10.10-10.30**                **The Safety and Security Interface**  
Presentation on the DPP and the Technical Report Series 1000
- **Mr Lingquan Guo** – SH-NMPS

- 10.30-11.00**                      **Master’s degree on Nuclear Safety and Security in Member States**  
 The focus of the presentation will be to inform on the Secretariat’s efforts to review the curriculum for the Master’s Degree on Nuclear Security and to report on Member States’ efforts (Malaysia, Indonesia, Thailand) regarding the establishment of a Master’s Degree in Nuclear Safety and Security in the Asian region
- **Mr Dimitiy Nikonov**, NSNS-PIDC
  - **Mr Yassine Chaari**, NSOC
- 11.00-11.20**                      **International Legal Instruments**  
 The objective will be to discuss the activities carried out by the Agency to support the CNS, the CPPNM, the Convention on Early Notification of a Nuclear Accident and the Convention on Assistance in the Case of a Nuclear or Radiological Emergency.
- **Mr David Senior** – SH-RAS
  - **Mr Florian Baciu** – IEC
  - **Mr Anthony Wetherall/Ms Camille Scotto De Cesar** – OLA
- 11.20-11.40**                      **Coffee Break**
- 11.40-12.30**                      **Updates on the School of Leadership for Safety & PRASC**  
 The focus will be to report on the on-going activities relating the International School for Leadership for Safety and the planned activities of PRASC
- **Mr Shahid Mallick** – SH-PSCS
- 12.30-14.00**                      **Lunch**
- 14.00-15.00**                      **Regional Networks**  
 The objective will be to update the SC members on the new developments of the regional networks
- **Mr Sukho Lee** – ANSN
  - **Mr Daw Mosbah** – ANNuR
  - **Mr Augustin Simo** – FNRBA
  - **Mr Alfredo De Los Reyes Castillo** – FORO
  - **Ms Malgorzata Sneve** – EuCAS
- 15.00-15.20**                      **Coffee Break**
- 15.20-16.30**                      **Capacity Building**  
 This session will be to report on the ongoing activities carried by the NS Department on capacity building (e.g. publications, experts’ meetings, training events, etc.)
- **Mr Andrea Luciani** – NSRW
  - **Mr Geza Macsuga/ Mr Manuel Recio** – NSNI
  - **Mr Ramon de La Vega** – IEC

- **Mr Dmitriy Nikonov** –NSNS/PDIC

**16.30-17.00 Regulatory Experience Management**

This session will update on the status of the ongoing work for producing an IAEA TECDOC on Regulatory Experience Management practices:

- **Mr Manuel Recio** – NSNI

**17.00-17.15 Nuclear Safety Review: Status of the 2019 Report**

- **Mr Gary Booth** – NSOC

**17.15-17.30 Summary of the Chair**

**17.45 Cocktail Reception (VIC Restaurant)**

**Tuesday, 21 May 2019**

**09.30-09.50 Regulatory Effectiveness Conference: Status of the forthcoming International Conference**

- **Mr Shahid Mallick** – SH-PSCP

**09.50-10.10 Nuclear Security: Status of the forthcoming International Conference**

- **Mr Darren Chen** – NSNS

**10.10-10.30 International Regulators Conference on Nuclear Security: Status of the forthcoming International Conference**

- **Mr Khammar Mrabit** – AMSSNuR

**10.30-10.50 Coffee Break**

**10.50-11.30 Consolidated Plan for Safety**

The objective is to brief the SC members on the Secretariat efforts to enhance the coordination between the TC and NS departments for strengthening the safety infrastructure in Member States through IAEA technical assistance and support

- **TC-NS Task Force Co-Chairs**

**11.30-12.00 Regulatory Infrastructure Development Project (RIDP), Status and Way Forward**

- **Mr. Hilaire Mansoux** – SH- Division of Radiation, Transport and Waste Safety
- **Mr Muhammed Khaliq** – SH- Nuclear Security of Materials & Facilities

- 12.00-14.00**                      **Lunch**
- 14.00-14.15**                      **Small Modular Reactors – Coordination Group**  
This session will discuss IAEA activities on the Safety and Licensing of SMRs
- **Mr Eric Beaupre** – NSOC
- 14.15-14.35**                      **GNSSN Programme Assessment**  
The objective of this session will be to assess GNSSN activities and programmes
- **Mr Lingquan Guo** – SH-NMPS
- 14.35-15:25**                      **Regulatory Inspections**
- **Mr Tim Kobetz** – NSNI
  - **Ms Farhana Naseer** – NSNI
  - **Mr Kristof Horvarth** – NSNS
  - **Mr Jovica Bosnjak** – NSRW
- 15.25-16.45**                      **Coffee break**
- 16.45-16.15**                      **GC Plenary Meeting Agenda**
- 16.15-16.40**                      **Meeting Recommendations**
- 16.40-17.00**                      **Summary of the Chair and closing**
- *Mr Gustavo Caruso, DIR-NSOC, IAEA*
  - *Mr Khammar Mrabit, Chairman GNSSN*

**EVT1803949**  
**14th Meeting of the Steering Committee of the Global Nuclear Safety and Security Network**

**20 to 21 May 2019**

**List of Participants**  
 (as of 2019-05-22)

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