

IAEA Hybrid Technical Meeting (TM) on the Peer Review and Advisory Services in the Areas of Nuclear Safety and Security

30-31 May 2022

Contents

Background	1
Summary of the Hybrid Meeting	2
Conclusions and Future Work	2
Annex 1 – Agenda	4
Annex 2 – List of Participants	8
Annex 3 – List of IAEA staff	12

Background

The IAEA's Peer Reviews and Advisory Services (PR&AS) in the areas of nuclear safety and security are principal mechanisms for strengthening safety and security globally.

In its efforts to continuously improve the quality and coordination of its services, the Department of Nuclear Safety and Security (NS) established in 2016 a Peer Review and Advisory Services Committee (PRASC).

Since 2016 several conference resolutions have emphasized the importance of PRASC and its interaction with Member States. In 2019, GC (65)/Resolution 8, operative paragraph 45 *“Requests the Secretariat to continue to provide for and promote the regular interaction of the Peer Review and Advisory Services Committee with Member States and, in close consultation and coordination with Member States, continues to assess and strengthen the overall structure, effectiveness and efficiency of services within the purview of the Committee, and to report to the Board of Governors on the outcomes of this common effort”*

In 2016 and 2017 the Secretariat carried out a comprehensive assessment of all peer review and advisory services in nuclear safety and security and conducted a first Technical Meeting (TM) on the overall assessment of the effectiveness and efficiency of the services.

The results of that work and the feedback received by the Member States (MSs) was incorporated in the work programme of PRASC. In June 2020, comprehensive information was posted on a dedicated platform sharing updates and enhancements on the (PR&AS) and a 2nd TM was conducted in a virtual manner.

This 3rd PRASC TM, builds on the recommendation of the 2nd PRASC TM and is intended to share information and interact with MSs on the continuous enhancement of the effectiveness and efficiency of the PR&AS.

Summary of the Hybrid Meeting

The purpose of this 3rd TM was to share the results of PRASC work since its establishment and to enable the active interaction with the Member States in this regard.

The 3rd PRASC TM was conducted in a hybrid manner.

Sixty-two representatives from 30 Member States and one international organisation were officially nominated and participated in the meeting (see annex 2).

The Secretariat prepared video recorded presentations on all the PR&AS and posted them on a dedicated web page [Pages - PRASC Technical Meeting 2022 \(iaea.org\)](https://www.iaea.org/Pages/PRASC-Technical-Meeting-2022) ahead of the meeting. Written questions and comments were collected and addressed in the corresponding sessions during the meeting programme (see agenda in annex 1).

The meeting was opened by Mr. Shahid Mallick, Director of the Office of Nuclear Safety and Security Coordination (Department of Nuclear Safety and Security) on behalf of Ms. Evrard, DDG and Head of the NS department. Mr Mallick gave an overview of PRASC and update of its work since the 2nd TM in 2020. The new structure of the 17 services in safety and security and a summary of their enhancements was also presented by Mr. Shahid Mallick.

Interlinks with services relating to nuclear infrastructure development for embarking countries, were addressed and a specific presentation on INIR produced and posted by Ms Liliya Dulinets, Head of the Nuclear Infrastructure Development Section, of the IAEA Nuclear Energy Department.

Representatives of the Czech Republic, Republic Democratic of Congo, Slovenia, Sweden and Turkey, presented their experience utilizing a variety of services in safety and security as well as their proposals for improvement. Additionally, the ongoing work of the European Nuclear Safety Regulators (ENSREG) on effectiveness and efficiency was presented and discussed.

All meeting materials are posted on the above-mentioned web page as well as a brochure describing the 17 services.

Conclusions and Future Work

Peer reviews and advisory services are key for strengthening nuclear safety and security, globally.

This 3rd TM has benefitted from a useful interaction with the MSs and recognised these TMs as a good mechanism to have feedback and recommendations for the continuous enhancement of the effectiveness and efficiency of the services.

The Agency recognised the significant contribution of Member States providing their expertise and the investment in time and resources required to host these services. The Covid-19 pandemic has underlined even more the importance of MS's engagement and efforts making experts available for the missions. Not only senior and well-trained experts are important but also experts that come from a balanced geographical distribution.

The following points were noted for future work:

1. **Number of Peer Reviews and Advisory Services.** The current suite of Peer Reviews and Advisory Services cover all safety requirements and security guidance. The number of services since PRASC was established has been reduced from 19 to 17 services. Our services are provided upon request and are only an offer intended to address all possible needs of the MSs. The Agency will look further into how to optimise the number of services, accommodating requests for new services and using experts' missions as a possible way to cover current and emerging needs.
2. **Combined missions, synergies and opportunities for increased efficiency and effectiveness across services.** Efforts by "merging" or "combining" services, in particular for ARTEMIS-IRRS, should be considered carefully. It is paramount to preserve the integrity of the services and ensuring the availability of experts and team leaders to cover several missions when held together or in a sequential manner. More time can be used to learn from current back-to-back missions and their feedback. Our interactions with the Member States on these important matters will continue as well as in other related areas.
3. **Self-assessment is the basis of several of our services.** It has been strengthened and self-assessment tools have been streamlined. The IAEA will continue to improve it in cooperation with the Member States. Identifying potential inconsistencies, overlaps and finding opportunities to simplify it and augment its efficiency is a main work stream. It is important to incorporate feedback and new knowledge into the process. It is also recognised the positive aspects of simplification and stability for the MS who are already acquainted with self-assessments processes conducted in previous missions.
4. **Services Guidelines.** An internal procedure for review of the services guidelines is in place to ensure harmonisation and consistency across services. In the past 2 years, 2 new or revised services guidelines have been published. This is an important and continuous workstream for the future.
5. **Training and selection of experts for the missions.** The Agency will ensure that the general principles and selection criteria for experts developed by PRASC are applied in a consistent manner and reflected in the services guidelines. The Agency has increased and enhanced materials and training opportunities for the preparation of the expert team. New e-learning capabilities and several workshops have been developed and conducted in the last two years.
6. **Sharing experience through lessons learned and analysing the results of the missions.** These are powerful tools for improvement and learning. The Secretariat has developed several databases intended to share good practices identified from the conduct of the missions. Publication of lessons learned, and workshops to share experience have been developed and conducted during the past two years. The IAEA will continue to undertake and maximize these activities and incorporate feedback into the IAEA work.
7. **Collaboration with other international organisations and associations to avoid overlaps.** The IAEA will continue pursuing collaboration with other international organisations and associations conducting reviews with a safety component, such as WANO.

Finally, this Technical Meeting is not intended to conclude PRASC activities. This is an on-going process and PRASC will systematically analyse the outcomes of this Technical Meeting and build on the work undertaken so far. The IAEA will remain always open to further discussion with, or inputs from the Member States.

Technical Meeting on Peer Reviews and Advisory Services in the Areas of Nuclear Safety and Security

Hybrid meeting – Vienna International Centre
and via Webex

DRAFT AGENDA

Monday, 30 May 2022 (M6, in the M-Building)

(Vienna time (UCT+2h), Virtual meeting via WebEx)

12:00 – 12:05 (Time for connecting, turn off all microphones & cameras)

Session 1: Introductory remarks. Overview of PRASC's work

12:05 – 12:15 Opening Remarks by *Mr. Shahid Mallick, Director, Office of Nuclear Safety and Security Coordination (NSOC)*.

12:15 – 12:35 Overview of the Peer Review and Advisory Service Committee (PRASC) and its work by *Mr. Shahid Mallick, Director, Office of Nuclear Safety and Security Coordination (NSOC)*.

Session 2: Enhancing the Effectiveness and Efficiency of the Peer Review and Advisory Services: Challenges, Opportunities and Lessons Learned: Focus on Correlated Missions (IRRS, ARTEMIS, EPREV)

Chair of Session 2: Mr Peter Johnston, Director, Division of Radiation, Transport and Waste Safety (NSRW) and Ms Svetlana Nestoroska Madjunarova (on behalf of Mr Carlos Torres, Director, Incident and Emergency Centre (IEC)).

12:35 – 13:10 IAEA Joint presentation on Common Areas and Synergies between IRRS, ARTEMIS and EPREV by *Mr Hilaire Mansoux, Section Head, Mr Jean-Rene Jubin, Acting Section Head, Ms Svetlana Nestoroska Madjunarova, Emergency Preparedness Coordinator and Mr Gerard Bruno, Unit Head.*

13:10 – 13:25	European Nuclear Safety Regulators Group (ENSREG): Work on Effectiveness and Efficiency of Peer Reviews. WG1/WG2 IRRS-ARTEMIS sub-group. <i>Mr Simon Coenen, Senior Expert Nuclear Safety, International Coordination, Federal Agency for Nuclear Control (FANC).</i>
13:25 – 13:40	Invited Presentation of Ongoing Back-to-Back IRRS-ARTEMIS mission in Slovenia. <i>Mr Leon Kegel, ARAO (Radioactive Waste Management and SNSA Slovenian Nuclear Safety Administration.</i> <i>Apologies for absence of Mr Igor Sirc, Director, Slovenian Nuclear Safety Administration.</i>
13:40 – 13:50	Presentation on INIR missions and links to Safety and Security Peer Review and Advisory Services for Embarking Countries. <i>Ms Liliya Dulinets, Section Head, Nuclear Infrastructure Development Section (NIDS).</i>
13:50 – 14:15	Break
Session 3	General Discussion on Sessions 1 and 2 and Q&A on the Services' video presentations posted at PRASC TM web (Pages - PRASC Technical Meeting 2022 (iaea.org)) <i>Chair of Session 3: Shahid Mallick, Director NSOC</i>
14:15- 15:15	<i>(Services' video presentations were posted in advance on the PRASC TM web platform. Written questions on the posted video presentations collected by email will be addressed in this session)</i>
15:15	End of the Day

Tuesday, 31 May 2022 (M7, in the M-Building)

(Vienna time (UCT+2h), Virtual meeting via WebEx)

12:00 – 12:05 (Time for connecting, turn off all microphones & cameras)

Session 4: Enhancing the Effectiveness and Efficiency of the Peer Review and Advisory Services: Challenges, Opportunities and Lessons Learned: *Focus on Nuclear Installation Safety*

Chair of session 4: Ms Anna Bradford, Director, Division of Nuclear Installation Safety | (NSNI).

12:05- 12:20 Invited Presentation of Sweden on Safety Aspects of Long-Term Operation (SALTO) Mission.

Mr Joakim Thulin, Ageing Management, Forsmarks Kraftgrupp AB.

12:20- 12:35 Invited Presentation of Turkey on Site and External Events Design Review Service (SEED) Mission

Mr Berke Sayin, Construction Group Head, Nuclear Regulatory Authority.

12:35-12:50 Dashboard of Services in Nuclear Installation Safety *by Mr Paolo Contri, Section Head, External Events Safety Section (NSNI)*

12:50 – 13:45 Discussion on session 3 Q&A

13:45 Break

Session 5: Enhancing the effectiveness and efficiency of the peer review and advisory services: Challenges, opportunities and lessons learned

Focus on safety and security

Chair of session 5: Ms Elena Buglova, Director, Division of Nuclear Security (NSNS)

14:00 – 14:15 Invited Presentation of the Republic Democratic of Congo on the Advisory Mission on Regulatory Infrastructure for Radiation Safety and Nuclear Security (RISS)

Mr Alfred Nganura Amisi Maisha, RISS Focal Point, National Committee for the Protection Against Ionizing Radiation.

14:15 – 14:30 Invited Presentation of the Czech Republic on the International Physical Protection Advisory Service (IPPAS) mission.

Ms Andrea Horakova, State Office for Nuclear Safety.

14:30 – 14:50	IAEA joint presentation on International Nuclear Security Advisory Service (INSServ) and IPPAS by <i>Mr Arvydas Stadalnikas, Unit Head, NSNS and Mr Thierry Pelletier, Unit Head, NSNS.</i>
14:50 – 15:30	General discussion. Q&A session 3
15:30	Break
15:45	Closing Remarks <i>Mr. Shahid Mallick, Director, Office of Nuclear Safety and Security Coordination (NSOC).</i>
15:45	Adjourn

Annex 2 – List of Participants

PRASC TM 2022 – LIST OF PARTICIPANTS

No	Country	Mr/Ms	Firstname	Lastname	Institution
1	Albania	Mr	Rustem	Paci	Radiation Protection Office
2	Belarus	Ms	Viktoryia	Yanovich	Republican Unitary Enterprise "Belarusian Nuclear Power Plant"
3	Belgium	Mr	Simon	Coenen	Federal Agency for Nuclear Control/Representing ENSREG
4	Brazil	Mr	Jefferson Bores	Araujo	Commissao Nacional De Energia Nuclear - CNEN
5	Brazil	Mr	Andre Luiz	Lopes Quadros	Commissao Nacional De Energia Nuclear - CNEN
6	Brazil	Mr	Jose Antonio	Barretto De Carvalho	Commissao Nacional De Energia Nuclear - CNEN
7	Bulgaria	Ms	Yuliya	Dimitrova	Permanent Mission of the Republic of Bulgaria to the UN
8	Bulgaria	Ms	Stilyana	Mladenova	NPP Kozloduy NPP
9	Cameroon	Mr	Jean-Eric	Fonkou Chanou	Ministry of External Relations
10	Canada	Mr	Tristan	Barr	Health Canada
11	Canada	Mr	Dominique	Nsengiyumva	Radiation Protection Bureau, Health Canada

12	China	Mr	Jie	Hou	Ministry of Ecology and Environment / National Nuclear Safety Administration
13	China	Mr	Bo	Zong	State Nuclear Security Technology Center
14	Congo	Mr	Alfred	Maisha	Comite National de Protection contre les Rayonnements Ionisants (CNPRI)
15	Czech Republic	Ms	Andrea	Horakova	State Office for Nuclear Safety
16	Egypt	Mr	Mohamed	Farahat	Egyptian Atomic Energy Authority
17	Egypt	Mr	Safwat	Salama	Egyptian Atomic Energy Authority
18	Egypt	Mr	Ahmed Abdalla Fouad Amin	Shafei	Nuclear Power Plants Authority (NPPA)
19	Indonesia	Mr	Ishak	Ishak	Nuclear Energy Regulatory Agency (BAPETEN)
20	Iraq	Mr	Haider	Zghaier	Iraqi Radioactive sources Regulatory Authority (IRSRA)
21	Jordan	Mr	Ayadh	Alzyoud	Jordan Atomic Energy Commission (JAEC)
22	Jordan	Mr	Mohammad	Alqudah	Jordan Atomic Energy Commission (JAEC)
23	Jordan	Mr	Taha	Hashlamoun	Jordan Atomic Energy Commission (JAEC)
24	Kenya	Ms	Beth	Kaboro	Kenya Nuclear Regulatory Authority
25	Lithuania	Ms	Jolanta	Senkevic	State Nuclear Power Safety Inspectorate

26	Mexico	Mr	Victor Manuel	Gonzalez Mercado	Comision Nacional de Seguridad Nuclear y Salvaguardias
27	Morocco	Ms	Zineb	Elfaicali	Moroccan Agency for Nuclear and Radiological Safety and Security (AMSSNuR)
28	Pakistan	Mr	Iftikhar	Ahmad	Pakistan Nuclear Regulatory Authority (PNRA)
29	Pakistan	Mr	Muhammad	Fayyaz	Strategic Plans Division, Pakistan Atomic Energy Commission
30	Panama	Ms	Nadja	Benson Nino	Ministry of Health, Regulatory Authority
31	Republic of Niger	Mr	Salle	Mayaki	Autorite de Regulation et de Surete Nucleaires ARSN
32	Republic of Niger	Mr	Mahamadou	Oumarou Sidibe	Autorite de Regulation et de Surete Nucleaires ARSN
33	Russian Federation	Mr	Sergei	Marogulov	ROSATOM
34	Russian Federation	Mr	Timofey	Tsvetkov	ROSATOM
35	Russian Federation	Mr	Anton	Chukov	ROSATOM
36	Slovakia	Mr	Jakub	Konečný	Nuclear Regulatory Authority of the Slovak Republic
37	Slovakia	Ms	Natália	Šubrotová	Permanent Mission of Slovakia to the UN (Nuclear Regulatory Authority of the Slovak Republic)
38	Slovenia	Mr	Leon	Kegel	ARAO Radioactive Waste Management and SNSA Slovenian Nuclear Safety Administration
39	Spain	Ms	Isabel	Villanueva	Consejo de Seguridad Nuclear

40	Sudan	Mr	Abdelgadir Eltayeb Abdelgadir	Mohammed	Sudanese Nuclear and Radiological Regulatory Authority (SNRRA)
41	Sudan	Mr	Alameldin	Osman	Sudan Atomic Energy Commission
42	Sweden	Mr	Joakim	Thulin	Forsmark
43	Switzerland	Mr	Hugo Gabriel	Nilsson	Swiss Federal Nuclear Safety Inspectorate ENSI
44	Tajikistan	Mr	Olimjon	Azizov	Chemical, Biological, Radiological and Nuclear Safety and Security Agency (National Atomic Energy Authority)
45	Thailand	Ms	Haruetai	Kasiwattanawut	Office of Atoms for Peace, Ministry of Higher Education, Science, Research and Innovation
46	Thailand	Mr	Sarun	Soongsawang	Office of Atoms for Peace, Ministry of Higher Education, Science, Research and Innovation
47	Thailand	Mr	Soratos	Tantideeravit	Office of Atoms for Peace, Ministry of Higher Education, Science, Research and Innovation
48	Turkey	Mr	Berke	Sayin	Nuclear Regulatory Authority
49	Turkmenistan	Mr	Zafarjan	Hudaynazarov	Main Directorate of Civil Defence and Rescue operations, Ministry of Defence of Turkmenistan.
50	Turkmenistan	Mr	Dayanch	Charyyev	Main Directorate of Civil Defence and Rescue operations, Ministry of Defence of Turkmenistan.
51	Turkmenistan	Mr	Hajymuhammet	Geldiyev	Physics mathematics Department of the Academy of Sciences of Turkmenistan
52	Zimbabwe	Ms	Nokuthula	Ncube	Radiation Protection Authority of Zimbabwe

Annex 3 – List of IAEA staff

LIST OF IAEA STAFF ATTENDING THE PRASC TM 2022

No	Name	Dep/Div	Occupational Title	Owner
1	Shahid Mallick	NSOC	Director	
2	Peter Johnston	NSRW	Director	
3	Svetlana Nestroroska Madjunarova	IEC	Emergency Preparedness Coordinator	EPREV
4	Hilaire Mansoux	NSRW	Section Head	IRRS/RISS
5	Jean-Rene Jubin	NSNI	Section Head	IRRS
6	Gerard Bruno	NSRW	Unit Head	ARTEMIS
7	Liliya Dulinets	NIDS	Section Head	
8	Anna Bradford	NSNI	Director	
9	Paolo Contri	NSNI	Section Head	SEED
10	Elena Buglova	NSNS	Director	
11	Arvydas Stadalnikas	NSNS	Unit Head	IPPAS
12	Thierry Pelletier	NSNS	Unit Head	INSServ
13	Vladan Ljubenov	NSRW	Acting Unit Head	
14	Gabor Petofi	NSNI	Senior Nuclear Safety Officer	SALTO
15	Jovica Bosnjak	NSRW	Radiation Safety Infrastructure Specialist	
16	Zhiwen Fan	NSRW	Waste Safety Specialist	
17	Jizeng Ma	NSRW	Unit Head	
18	Margaret Cervera	NSRW	Radiation Safety Regulatory Infrastructure Specialist	

19	Shazia Fayyaz	NSRW	Unit Head	
20	Merinda Volia	NSRW	Radiation Safety Regulatory Infrastructure Specialist	
21	Daniela Izabal Nogueda	NSNI	Associate Project Analyst	
22	David George Bennett	NSRW	Waste Safety Specialist	
23	Fuming Jiang	NSNI	Section Head	OSART/SALTO
24	Teodros Gebremichael Hailu	NSRW	Radiation Safety Specialist	
25	Miroslav Pinak	NSRW	Section Head	
26	Richard Ndi Samba	NSRW		
27	Manuel Recio Santamaria	NSRW	Senior Radiation Safety Specialist	
28	Burcin Okyar	NSRW	Radiation Safety Specialist	ORPAS
29	Maria Alejandra Anez Saavedra	NSOC	Coordination Officer	
30	Mathilde Prevost (on behalf of G. Bruno)	NSRW	Coordination Officer	ARTEMIS
31	Javier Yllera	NSNI	Senior Nuclear Safety Officer	TSR
32	Maria Brandstetter-Schmied	NE	Programme and Publication Officer	
33	Bouchra Boustani	NSNS	Senior Nuclear Security Officer	
34	Heather Looney	NSNS	Section Head	
35	Olga German	NSOC	Senior Safety Officer	
36	Cristy Gregory	NSNI	Nuclear Safety Officer	PROSPER
37	Amgad Shokr	NSNI	Section Head	INSARR

