Security and Safety of Radioactive Sources: Decommissioning and Replacement of Radioisotope Thermoelectric Generators

CEG Workshop **16-18 February 2005** **Oslo, Norway**

Wednesday 16 February 2005

Begin	End	Session / Title	Name
0830hrs	0900hrs	Registration	
0900hrs	1000hrs	Welcome	*Mr. Allan Heyes CEG Chairman*
		Introductory marks	*Mr. Kim Traavik MFA, Norway*
		Objectives of the workshop	*Mr. Ole Harbitz NRPA, Norway*
1000hrs	1030hrs	Main approach on RTG decommissioning and replacement by alternative power supply sources	*Mr. Sergey Antipov FAEA, Russia*
1030hrs	*1100hrs*	*Coffee*	
1100hrs	***1600hrs***	***Session 1: Overview of the RTG operation***	
1100hrs	1130hrs	Experience of RTG decommissioning in the North-West Russia and their replacement by the solar power systems within the Norwegian-Russian environmental cooperation	*Mr. Alexander Ruzankin Murmansk Region Administration, Russia*
1130hrs	1200hrs	Overview of the Norwegian-Russian co-operation on RTG replacement	*Mr. Per-Einar Fiskebeck Office of the County Governor of Finnmark, Norway*
1200hrs	1230hrs	Main problems of operation and decommissioning of RTGs used for navigation equipment	*Mr. Alexander Gordienko MOD, Russia*
1230hrs	*1400hrs*	*Lunch*	
1400hrs	1430hrs	Operation of radionuclide thermoelectric generators (RTG) at sea transport facilities in Russian Federation and their decommissioning	*Mr. Mikhail Aturin Federal Agency for Sea and River Transport of Russia*
1430hrs	1500hrs	Disposal of Radioisotope Sources of Heat on the basis of Strontium-90 at Production Association "Mayak"	*Mr. Valery Gorn PO "Mayak", Russia*
1500hrs	1530hrs	US Experience with RTGs	*Mr. Gene Hauser US DOE*
1530hrs	*1600hrs*	*Tea*	

1600hrs	***1730hrs***	***Session 2: Regulatory control***	
1600hrs	1630hrs	General overview of the State supervision and control system on RTG management	*Mr. Vladimir Reka NIERA, Russia*
1630hrs	1700hrs	IAEA safety standards applicable to the RTG management	*Mr. Luis Jove Sed IAEA*
1700hrs	1730hrs	Overview and Analysis of Legal Documents and Technical Regulations on Safe Management of Radioisotope Thermoelectric Generators	*Mr. Stanislav Testov MOD, Russia*
1730hrs	1745hrs	Information on the International Conference on the Safety and Security of Radioactive Sources	*Mr. Hugues de Longevialle MOFA, France*

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0900hrs	***1000hrs***	***Session 2: Regulatory control (cont.)***	
0900hrs	0930hrs	Norwegian-Russian Regulatory co-operation on RTG	*Ms. Malgorzata Sneve NRPA, Norway*
0930hrs	1000hrs	The French system for the control and the survey of radioactive sources. Regulatory framework used in France for the transport of radioactive material: application to the transport by road of a thermoelectric generator equipped with a Strontium 90 radioactive sealed *source (RTG) of Russian design.*	*Mr. Christian Deregel IRSN, France*
1000hrs	***1430hrs***	***Session 3: Safety and Security Aspects***	
1000hrs	1130hrs	Overview of accidents and incidents that have taken place. Remedial actions, security and safety implications.	*Mr. Alexander Gordienko MOD, Russia* *Mr. Mikhail Aturin Russian Agency for and River Transport, Russia*
1030hrs	*1100hrs*	*Coffee*	
1130hrs	1200hrs	Security concerns regarding RTGs	*Mr. Halvor Kippe Norwegian Defence Research Institute*
1200hrs	1230hrs	IAEA programme of securing radioactive sources	*Mr. Yury Volodin IAEA*
1230hrs	*1400hrs*	*Lunch*	
1400hrs	1430hrs	US/Russian-Installed Alarm Systems	*Mr. Brian Kaldenbach US DOE*

1430hrs	***1520hrs***	***Session 4: Environmental Impact and Risk Assessment***	
1430hrs	1500hrs	Environmental impact assessment and accident analysis of the RTG decommissioning	*Mr. Anatoly Platov VNIITFA, Russia*
1500hrs	1520hrs	Independent assessment of RTG decommissioning funded by Norway	*Mr. Ingar Amundsen NRPA, Norway*
1520hrs	*1550hrs*	*Tea*	
1550hrs	***1800hrs***	***Session 5: Removing, Securing and Replacement of RTGs***	
1550hrs	1620hrs	Efforts of the United States of America to Replace and Recover Radioisotopic Thermoelectric Generators in the Russian Federation	*Mr. Brian Waud US DOE*
1620hrs	1650hrs	Issues related to RTGs security provision and their replacement with alternative power sources	*Mr. Alexander Grigoriev RRC KI, Russia*
1650hrs	1710hrs	Basic design of an infrastructure for the handling of spent high activity sources	*Mr. Mohamed Al-Mughrabi IAEA*
1710hrs	1740hrs	Results of Operational Data Collection On Russian Built Photovoltaic Alternative Energy Systems	*Mr. Gene Hauser US DOE*
1740hrs	1800hrs	Operating experience of the solar cell panel installation	*Mr. Jarl Tuv, Norwegian Coastal Directorate*

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0900hrs	***1030hrs***	***Session 6: International Co-operation on RTG Security and Safety Improvement***	
0900hrs	1000hrs	Denmark-sponsored RTG projects	*Mr. Wilhelm Grentzmann Wilco Marine Aps Denmark*
1000hrs	1030hrs	RTG transportation and installation of solar panels (video)	*Mr. Vladimir Kozlovskiy Murmansk Region Administration, Russia*
1030hrs	*1100hrs*	*Coffee*	
1100hrs	***1230hrs***	***Concluding Discussion***	
1100hrs	1230hrs	Conclusions and recommendations	*Heads of delegations Chairman*
1230hrs	*1400hrs*	*Lunch*	