Polish industry for nuclear power sector

TECHNICAL WORKSHOPS

Quality issues

October 6-8, WARSAW			
GROUP: MECHANICAL			
Day	**Hour**	**Topic**	**Expert**
Room 3			
6th October, Monday	**7:30 - 8:00**	**Coffee break**	
	8:00 - 9:00 (1 h)	Welcome Presentation of Experts Introduction	**Sieć Badawcza Łukasiewicz – Górnośląski Instytut Technologiczny (GIT) Poland**
	9:00 - 10:30 (1,5 h)	Safety culture and technical regulations for nuclear power plant components and personnel requirements accreditation of certification laboratories	**Sieć Badawcza Łukasiewicz – Górnośląski Instytut Technologiczny (GIT) Poland**
	10:30 - 10:45	**Coffee break**	
	10:45 - 12:15 (1,5 h)	**MODULE A: TECHNICAL REQUIREMENTS** 1) Technical requirements for: modular structures, pressure vessels, pipings, pumps and valves, metal building structures,filter and ventilation system (HVAC), cranes, fire protection instalations and other auxiliary installations and equipment,	**Westinghouse USA**
	12:15 - 13:15	**Lunch**	
	13:15 - 15:15 (2 h)	**MODULE B: CLASSIFICATION of COMPONENTS** Principles of classification of nuclear components, safety classes	**Westinghouse USA**
	15:15 - 15:30	**Coffee break**	

	15:30 - 17:30 **(2 h)**	**MODULE C: DUAL USE PRODUCTS** Material and Products: Use of Multiple Specifications	**BUREAU VERITAS** **France, Poland**
Room 3			
7th October, Tuesday	**7:30 - 8:00**	**Coffee break**	
	8:00 - 10:00 **(2 h)**	**MODULE D: SUPPLY CHAIN** 1) Supply chain: depth of inspection, role of third party (notified body), quality assurance, relationship between regulator, investor and vendor/suppliers: 2) General Requirements, 3) Use of Nuclear Standards 4) Quality Assurance and Certification 5) implemenation and costs of certification	**BUREAU VERITAS** **Belgium, France**
	10:00 - 10:15	**Coffee break**	
	10:15 - 12:15 **(2 h)**	**MODULE E: NDT/NDE** 1) NDT/NDE methods, accreditation of laboratories, qualifications of welding personal and NDT/NDE personal, 2) accreditation/certification of testing laboratories, including comparative analysis of code and standards	**TUV Nord** **Poland**
	12:15 - 13:15	**Lunch**	
	13:15 - 15:15 **(2 h)**	**MODULE F: GRADED APPROACH** 1) Implementation of Graded Approach principle for terms and conditions for qualification of products, services 2) Examples of implementation of GRADED APPROACH 3) Implementation of Graded Approach principle for iconic solutions in regard of inspecting of supply chain – subcontractors level; 4) Rules for implementation and practicing of so called “safety culture” and “nuclear quality” in regard of GRADED APPROACH context.	**BUREAU VERITAS** **Belgium, France**
	15:15 - 15:30	**Coffee break**	

	15:30 - 17:30 **(2 h)**	**MODULE G: ISSUES RELATED TO STANDARD:** **ISO 19 443 : 2018** 1) Presentation of standard 2) Differences between ISO 19 443 and ISO 9001 3) Actions and procedures necessary for implementation of ISO 19 443 in Polish industrial manufacturing, engineering and civil construction Contractors 4) Rules of implementation and practicing of Nuclear Safety Culture and Nuclear Quality Culture within ISO 19 443 context and considering the IAEA Harmonized Safety Culture Model	**BUREAU VERITAS** **Belgium, Poland**
Room 3			
	7:30 - 8:00	**Coffee break**	
	8:00 - 10:00 **(2 h)**	**MODULE H: MEGA PROJECTS / NUCLEAR PROJECTS MANAGEMENT** 1) Fundamental notions on Nuclear Project Management 2) Leadership functions incl. Independent Nuclear Safety challenge and advise function 3) Efficient work sequences; 4) Insight into all main stages from the preparatory phase to plant turnover to commissioning. including Ageing Management Program 5) The international lessons learned: CASE STUDIES: two successful projects	**BUREAU VERITAS** **Belgium, USA**
	10:00 - 10:15	**Coffee break**	
	10:15 - 12:15 **(2 h)**	**MODULE I: NQA-1 SYSTEM OF QUALITY** ASSURANCE AND CONTROL - Part I 1) Introduction to nuclear safety and regulations 2) Presentation of the 18 quality assurance criteria of the 10 CFR 50, Appendix B: “Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants” 3) Overview of the NQA-1 Standard: 4) Quality Assurance Requirements for Nuclear Facility Applications Implementation of necessary - internal - procedures and adjustment activities to meet the requirements of external principals	**BUREAU VERITAS** **USA**
	12:15 - 13:15	**Lunch**	
8th October, Wednesday	**13:15 - 15:15** **(2 h)**	**MODULE J: CFSI issues:** counterfeit, fraudulent and suspicious items 1) General presentation of CFSI concept 2) Measures against fraud and counterfeiting in the nuclear environment (CFSI), 3) Numerous illustrations and concrete examples	**BUREAU VERITAS** **USA**
	15:15 - 15:30	**Coffee break**	

	15:30 - 16:30 (1 h)	**MODULE K: SMR's supply chain** Supply chain for SMRs - qualification procedure - how to become a qualified subcontractor for the nuclear sector	**GE Vernova Hitachi Energy USA**
	16:30 - 17:30 (1 h)	**MODULE L: UDT** Manufacturing equipment for a nuclear power plant. Legal context of the technical requirements for equipment subject to technical supervision at the NPP. Structures of equipment subject to technical supervision including their fasteners and support structures, pressure and safety fittings	**Urząd Dozoru Technicznego (UDT) Poland**
	17:30 - 18:00	**SUM UP OF THE WORKSHOP** **Open Questions** **DIPLOMAS**	