**TM/WS ON TOPICAL ISSUES ON INFRASTRUCTUE DEVELOPMENT:**

**Development and Management of National Capacity for Nuclear Power Program**

11-14 February 2013

**GUIDE**

**for break-out session on**

**the development of a knowledgeable NPP Owner/Operator**

1. **Date:** 2013 February 12
2. **Time:** 15.00

1. **Duration:** 2 hours

1. **Description of the work to be performed:**
* The TM/WS participants will be split in 3 groups, each group working in a separate room, indicated below. Under the coordination of the group moderator, the participants of the groups should discuss the experiences in development of a knowledgeable NPP Owner/Operatorfor the first Nuclear Power Plant in the following specific area:
	+ Group 1: Financial risk
	+ Group 2: Vendors’ expectation from States
	+ Group 3: TSO Support / R&D infrastructures in support to NPP
* During the group discussions, the experiences, difficulties/challenges, identified good practices, learned lessons and recommendations should be recorded by the group reporter on the attached template (Attachment 2) and finally agreed with the participants of the group.
* The reporters should make the presentation of the group conclusions in the TM/WS plenary to be held on 2013 February 13, in the morning, as it is indicated in the TM/WS agenda.
1. **Work to be performed by participants in advance of the TM/WS:**
* The participants are requested to prepare in advance of the TM/WS their intervention in the group discussions. These interventions will be based on the answers to the questionnaire related to the area of discussions on the development of a knowledgeable NPP Owner/Operatorfor the first Nuclear Power Plant, included herein in the Attachment 1.
* The specific IAEA documents and guides should be used also and these will be found on the IAEA website (see <http://www.iaea.org/NuclearPower/Infrastructure/Bibliography/index.html>).
1. **Groups, moderators, reporters and meeting rooms:**

**Group 1:** **Financial Risks (**Armenia, Croatia, Egypt, Georgia, Iran, Kenya, Morocco, Mongolia, Syria, Thailand, Belgium, China, Finland and Romania).

**Moderator:** **Mr. Donald HOFFMAN - EXCEL**

**Reporter: Paul WARREN- IAEA**

**Meeting room: MOE58**

**Group 2:** **Vendors’ expectations from States (**Bangladesh, Belarus, Ghana, Jordan, Poland, Turkey, Vietnam, European Commission, France, USA, Japan, Republic of Korea and Russian Federation).

**Moderator: Mr. Olivier LOUBIERE-AREVA**

**Reporter: K-S. KANG - IAEA**

**Meeting room: MOE59**

**Group 3: TSOs / R&D infrastructures in support to NPP (**Cambodia, Indonesia, Malaysia, Nigeria, Senegal, Sudan, Bulgaria, Mexico and South Africa).

**Moderator: Mr. Lyuben MARINOV -Bulgaria**

**Reporter: Mr. Mihai MURAFA - IAEA**

**Meeting room: Board Room**

**Attachment 1:** Questionnaire related to development of a knowledgeable NPP Owner/Operatorfor the first Nuclear Power Plant.

**Attachment 2:** Template for reporting.

**QUESTIONNAIRE**

**related to development of a knowledgeable NPP Owner/Operator for the first NPP**

**Group 1:** **Financial Risks**

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| **No.** | **Requirements/Questions/Issues** | **Experience/Good practices/Learned lessons****[to be filled by participants prior to TM/WS]** |
| **1.** | What is the NPP Owner/Operator organization currently established and how is it expressly assigned the prime responsibility for safety? |  |
| **2.** | What consideration has the government given to the financial resources and the necessary competences and staffing that are expected from an organization operating a nuclear power plant so as to ensure long term safety? |  |
| **3.** | How has the NPP Owner/Operator organization ensured that all the activities conducted are included within the framework of an effective management system? |  |
| **4.** | Which is the financial plan for the first NPP in the country? |  |
| **5.** | What is the financial risks that need to be overcome for a successful NP project? |  |
| **6.** | What financial risks NPP Vendors are able to take? |  |
| **7.** | What financial risks must be taken by Governments? |  |
| **8.** | Describe an item/issue of your plan for establishment and development of the NPP Owner/Operator organization already successfully implemented which (in your opinion) may became a good practice for others newcomers. |  |
| **9.** | Describe some of the important issues that need to be added to the Milestone issues identified in the IAEA Publication |  |
| **10.** | Describe some of the key issue for consideration while evaluating the nuclear power infrastructure during the construction period. |  |

**Group 2:** **Vendors’expectations from States**

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| --- | --- | --- |
| **No.** | **Requirements/Questions/Issues** | **Experience/Good practices/Learned lessons****[to be filled by participants prior to TM/WS]** |
| **1.** | What is the NPP Owner/Operator organization currently established and how is it expressly assigned the prime responsibility for safety? |  |
| **2.** | How has the NPP Owner/Operator organization ensured that all the activities conducted are included within the framework of an effective management system? |  |
| **3.**  | Which are the expectations of the country implementing a NPP from the NPP Vendor countries, from point of view of NPP Owner/Operator? |  |
| **3.** | What is the minimum infrastructure expected by NPP Vendors before signing a contract for the first NPP? |  |
| **4.** | Which are the methods for the knowhow transfer to the NPP Owner/Operator organization (NPP Vendor, strategic partnerships, consultancy company)? |  |
| **5.** | Describe an item/issue of your plan for establishment and development of the NPP Owner/Operator organization already successfully implemented which (in your opinion) may became a good practice for others newcomers. |  |
| **6.** | Describe some of the important issues that need to be added to the Milestone issues identified in the IAEA Publication |  |
| **7.** | Describe some of the key issue for consideration while evaluating the nuclear power infrastructure during the construction period |  |

**Group 3: TSOs / R&D infrastructures in support to NPP**

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| --- | --- | --- |
| **No.** | **Requirements/Questions/Issues** | **Experience/Good practices/Learned lessons****[to be filled by participants prior to TM/WS]** |
| **1.** | What is the NPP Owner/Operator organization currently established and how is it expressly assigned the prime responsibility for safety? |  |
| **2.** | Has the NPP Owner/Operator organization appointed managers and key experts, specified its organizational structure, and established its policy for human resources development for discharging its responsibility for safety? |  |
| **3.** | Define the interfaces of the NPP Owner/Organization with the local organizations involved in the national Nuclear Power program. |  |
| **4.** | Describe your plan for development of competences and skills in the NPP Owner/Operators organization using experiences gain in the R&D institutes? |  |
| **5.** | What is tha TSOs’ Support added value and how working with TSOs? |  |
| **6.** | How does the NEPIO (Government) take account of leadership capabilities and an attitude emphasizing safety culture when identifying senior managers for the NPP Owner/Operator organization to be established? |  |
| **7.** | Describe an item/issue of your plan for establishment and development of the NPP Owner/Operator organization already successfully implemented which (in your opinion) may became a good practice for others newcomers. |  |
| **8.** | Describe some of the important issues that need to be added to the Milestone issues identified in the IAEA Publication. |  |
| **9.** | Describe some of the key issue for consideration while evaluating the nuclear power infrastructure during the construction period. |  |