**INTERNATIONAL ATOMIC ENERGY AGENCY**

**TECHNICAL CO-OPERATION & ASSISTANCE PROGRAMME**

**EXPERT REQUEST FORM**

**N.B: this request form must be submitted to the IAEA at least 3 months prior to expected mission dates**

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| **ADMINISTRATIVE MATTERS** |
| Project code: | Task 7.4 IRA2013: Action Plan for implementation of Workplan activties in 2016-2017 |
| Project title: | Assistance in environmental monitoring programme for BNPP-1 (follow-up of assistance provided in IRA2011) |
| Title of mission: | Expert mission on review and evaluate the result of the environmental monitoring program with the ESTE software |
| Duty station: | BNPP |
| Administrative (including VISA Support) contact person:(specify address, phone and E-mail) | Mojtaba Momeni-AzadAddress: International Affairs Department, Bushehr NPP, Bushehr, IranTelephone: +98 77 3111 2589Mobile: +98 937 250 2218Email: momeniazad@nppd.co.ir |
| Technical contact person:(specify address, phone and E-mail) | Rostami. Hassanrostami@nppd.co.ir, +989126942124 |
| Duration of mission: | 5 Days |
| Venue date proposal (provide 2) | 8-12 June 2019 or 15-19 June 2019 |
| Expected breaks and working hours during mission: | The suggested time is (in local time):working hours:8:30 to 10 , 10:15 to 12:30 , 14 to 15 , 15:15 to 16.15Breaks time: 10:15 to 10:30 ,15:00 to 15:15.Lunch time: 12:30 to 14:00 |

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| **TECHNICAL CONTEXT** |
| Context of the mission – why is it needed:(add a justification for the request of the expert mission e.g. To support national project, IAEA project) | Familiarity with radiation monitoring program in case of emergency in NPPs (including dosimetry of staff, monitoring the radiation condition of the site, on site field monitoring, radiation monitoring around the NPP(out site), predicting the radioactive material dispersion and proposing the intervention actions , etc. ) And review and evaluate BNPP environmental monitoring program in emergency |
| Expected outcomes – what is needed: | **to reply the following questions and ambiguities:*** Is it sufficient to envisage the radioactive dispersion prediction software for determining the urgent protective action planning zone (UPZ)?
* Is the radioactive dispersion prediction software enough for determining the intervention actions zone (limitation for using the local foodstuff)?
* If not, how these zones are determined? What are the duties and functions of the radiation monitoring field teams around the NPP and what radius from the plant is their range of activity?
* Is it necessary that the field radiation survey teams measure the on-site radiological condition?
* Is the emergency radiation monitoring program of beyond-design accidents different from the program of severe accidents?
* How is the amount of radioactive material released from the NPP (Source Term) estimated in case of accident? Is it necessary to establish control and decontamination checkpoint for people and vehicle at the exit of the site?
* Is it necessary to take sample from the surrounding ground layer air?
* Which radionuclides should be measured?
* Is it necessary to measures airborne aerosol? How are the intervention limits determined in environmental samples for different radionuclides?
* What characteristics should the mobile laboratories have? Is there any documentation in this regard?
* Where are environmental samples belonging to emergency conditions analyzed?
* Familiarity with how the (relevant) experts of BNPP can be member in the specialized workgroups of IAEA in the field of softwares of modeling and prediction of radioactive material dispersion in accident and normal conditions
* Making preparations for participation of experts in the specialized courses of IAEA in the field of modeling and prediction of radioactive material dispersion in normal and accident conditions
* Taking decision for holding similar missions and considering the practical solutions for facilitating the usage of the knowledge of IAEA experts in this field
* How can the modeling softwares be verified?
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| Expected number of attendees (people attending the mission):  | 18 experts |
| Level of the audience (specify the technical background and the professional experience of the attendees) | * Experts participating in the mentioned mission work at BNPP in the fields of radiation safety, I&C, environmental protection and monitoring laboratory and also in the in the field of modeling and prediction of radioactive material dispersion in case of accident and assessing the dose in normal conditions
* Experts participating in this expert mission are relatively familiar with the softwares of modeling and prediction of radioactive material dispersion in emergency conditions and also softwares of assessing the dose in normal conditions
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| **EXPERT MATTERS** |
| Number of Expert/s expected:  |  |
| Field of Expertise: | 1-Assessing radiological consequences of airborne and liquid discharges from normal operation.2-Assessment and Management of Radiological Impacts in Emergency Situation. |
| Duties:  |  |
| Qualification of expert: | 1. Complete familiarity with dose assessment softwares in the normal and emergency conditions
2. Enough familiarity and proficiency with environmental monitoring plan in emergency condition and emergency response
3. Full proficiency with IAEA documents in terms of intervention levels, protective actions and other response actions in case of emergency
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| Acceptable working language of expert: | English  |
| **If specific expert is suggested, please indicate the name and address. This does not mean that the expert will be automatically considered for the mission**.  |
| Name: Telephone: E-mail and Address:  |  |