

**JOB DESCRIPTION**

**IAEA TECHNICAL COOPERATION EXPERT MISSION**

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| **PROJECT NUMBER**: | IRA2013 |
| **PROJECT TITLE**: | Enhancing the Level of Operational Safety and Reliability of the Bushehr Nuclear Power Plant-1 |
| **EVENT NUMBER**: | EVT1903190 |
| **EVENT TITLE**: | TC Expert Mission on Assessment of the RPV neutron irradiation embrittlement, analysis of RPV surveillance specimens mechanical tests and Strength of Reactor Coolant Systems |
| **EVENT PURPOSE**: | The purpose of the event is to create and present presentations and attend round table discussions for the following topics as part of the EM - Strength Analysis of Reactor Coolant Systems |
| **EXPERT NAME:** | Mr. Heikki Antero Keinaenen  VTT Technical Research Centre of Finland LTD  Kemistintie 3  Espoo  Finland  P.O. Box 1000, FI-02044 VTT  Tel-Business: + 358 44 0859032 E-mail: [heikki.keinanen@vtt.fi](mailto:heikki.keinanen@vtt.fi) |
| **COUNTERPART**(**S**) **AND CONTACT DETAILS**: | Mr. Alireza Shokoohi  Nuclear Power Production and Development Company of Iran,  P.O. Box 14155-4494,  No. 7 Tandis St.; Africa Ave,  TEHRAN 19156,  IRAN, ISLAMIC REPUBLIC OF  E-mail:shokoohi@nppd.co.ir |
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| **DUTY STATION**(**S**): | Tehran, Iran |
| **DUTY PERIOD**: | Start date: 2019-09-14  End date: 2019-09-18 |
| **DUTIES**: | Create and present presentations and attend round table discussions for the following topics as part of the EM- Strength Analysis of Reactor Coolant Systems Stress analysis of reactor coolant system. Fatigue crack growth analysis procedure; High- cycle thermal fatigue analysis procedure in T-joints; Low- cycle fatigue analysis procedure considering operation period effects; Vibrational fatigue analysis of equipment and pipelines; |
| **EXPERIENCE**: | M.Sc. in Mechanical Engineering, Helsinki University of Technology 5/1984 Working with topic of expert mission more than 20 years. Principal Scientist at VTT. |
| **REQUIRED LANGUAGE**(**S**): | ENGLISH |
| **BACKGROUND PROJECT INFORMATION**: | To enhance the owner's capabilities towards the safe and reliable operation and maintenance of Bushehr NPP-1. |
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