IRA Funding Needs for TC Projects

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| **Project number** | **Project title** | **Project Objective** | **Activities to be implemented with new funds** | **Expected achievement of the implemented activity** | **Timeframe that the funds will be required by** | **Required Amount per Activity** | **Remarks** |
| IRA-2013  Project lifetime: 2016-2019  (4 years) | Enhancing the Level of Operational Safety and Reliability of the Bushehr Nuclear Power Plant-1 | To enhance the owner’s capabilities towards the safe and reliable operation and maintenance of Bushehr NPP-1. | 1. Procurement of Software for implementation of a system for environmental impact assessment and management 2. Nuclear Safety related missions    1. Preparatory OSART mission    2. EM to assist in the implementation of Nuclear oversight function    3. EM on "Assistance on review of safety analysis model for safe operation for BNPP-1"    4. EM on independent analysis of root-cause results for BNPP-1    5. EM on "Core Management calculation for Safe Operation of BNPP-1"    6. EM on " Assistance in review of implementation of the developed NPPD IMS" 3. Training events    1. SV on " environmental qualification of safety equipment BNPP" for 3 persons    2. SV on " Containment leakage tests and calculations after outage" for 4 persons    3. SV on "Decreasing the time response of modern I&C system" for 4 persons    4. Scientific visit on " competency models, method /assessment tools for effective competence and performance management of BNPP-1 personnel"    5. WS on " Competency models, method /assessment tools for effective competence and performance management of BNPP-1 personnel"    6. WS on Assessment of the RPV neutron irradiation embrittlement as well as Analysis of RPV surveillance specimens mechanical tests, High and low cycle fatigue analysis for strength assessment of Reactor Coolant System    7. WS on "Chemical-Physical internal cleaning of reactor equipment"    8. WS on " Assistance in review of off-site emergency preparedness and response of BNPP and off-site organizations in Emergency situation"   **Ageing Management related training**   * 1. WS on development of ageing management program for BNPP   2. WS developing a corrosion management programme for BNPP-1 with focus on FAC management | Owner's capabilities towards safe and reliable operation and maintenance of BNPP-1 enhanced - Performance and safety indicators are assessed by the end of 2018 in all areas and are implemented in 2019 for improvement in comparison with the baseline | 2016 - 2017 | 100 000  100,000  55,000 for SVs  100,000 for workshops  **Total: 355 000 Euro** |  |

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| IRA2012  Project lifetime: 2014-2017 | Increasing NPPD's Capability in Planning and Implementing Activities Related to Design and Construction of Two New Pressurized Light Water NPP Units in Bushehr with Emphasis on Safety | To further strengthen NPPD’s capabilities for the effective project management during the design and construction phases of its two new pressurized light water reactors with emphasis on safety. | 1. Safety related missions:    1. EM to assist in spent fuel storage    2. EM to assist in review of selected/developed training materials for future operatorsfor two new NPP units    3. EM To assist in development of the Local Industry Utilization Plan towards Safety and quality requirements in construction of new PWR units at Bushehr by participating local organizations    4. EM to assist on the establishment of public information and awareness centre    5. EM to review results of Stakeholder Involvement Plan    6. EM to assist in seismic safety assessment    7. EM to assist in the review of the developed Project Management System for units 2 and 3 of the new project. 2. Safety related training events:    1. EM to assist in review of selected/developed training materials for future operators for two new NPP units    2. SV on benchmarking on stakeholder involvement    3. SV on nuclear material accounting and control during preoperational phases of the two new PWR units in Bushehr (SG)    4. EM to assist in evaluation of developed programmes for updating owner's training system for the two new PWR units    5. EM to assist in review and evaluation of the developed programme for upgrading owner's training system for the two new PWR units | To establish effective project management processes during the design and construction of the two new pressurized water (PWR) nuclear power plant (NPP) units in Bushehr with emphasis on safety. | 2016-2017 | 120,000  45,000 |  |