|  |  |  |
| --- | --- | --- |
| **Key counterpart institutes and partners** | **Results of past technical cooperation** | **Thematic area** |
| **NPPD Co**:  The Nuclear Power Production and Development Company of Iran  **BNPP Operation Co**.: Bushehr Nuclear Power Plant Operation Company  **OCE Co**:  Ofogh Consulting Engineers Company  **TAVANA Co**. :  Nuclear Power Plants Safety Development and Improvement | The Nuclear Power Production and Development Company of Iran (NPPD Co.) is a subsidiary to the Atomic Energy Organization of Iran (AEOI) and works as its policy-making arm in the field of nuclear power plant development in the country.  At the present time NPPD Co. is License owner of three nuclear power plants which one of them is in operation, name as Bushehr Nuclear Power Plant Unit 1 (BNPP-1) and the other two are under construction names as BNPP2&3 in Bushehr Province. About TC projects, the IAEA assisted in fields of supporting, enhancing and improving in many areas such as:  Nuclear safety issues:   * Enhancing the capabilities in nuclear oversight functions by participation in Operational Safety Review Team (OSART) mission, * Integrity safety analysis of the reactor pressure vessel and reactor coolant system,   Training issues:   * Reliability assessment techniques of equipment during operation, * Planning, organizing and implementing the modernization in top level control unit of Instrument and Control systems, * Modern methods of Condition Based Maintenance at BNPP-1 for optimizing maintenance and repair programmes, * On competency models, method/assessment tools for effective competence and performance management of BNPP-1 personnel, * On optimizing overall WWER-1000 reactor (Water-Water power Reactor with power output 1000 Mw) and refueling process with focus on new techniques and materials, * On advance methods, new techniques and materials, modern tools for maintenance and repair of WWER-1000 reactor refueling machine equipment and pipelines at NPPs.   IAEA Assistance issues:   * In development & improvement of training system of maintenance & repair personnel, * In review of BNPP-1 off-site emergency preparedness and response and Severe Accident (SA) Analysis of BNPP-1, * In environmental monitoring programme for BNPP-1, * In review of implementation of the NPPD Integrated Management System (IMS), plans for improvements including safety requirements for compliance by services providers, * To strengthen the capability of BNPP personnel on application of new IAEA standards in modification Main Control Room, * On improvement of the procurement system for goods and services necessary for BNPP safe and reliable operation and maintenance.   The above mentioned projects have been completed between years 2016 and 2020.  Meanwhile It should be notified that because of COVID-19 pandemic and impossibility of implementation of TC Projects after 2020, almost all of them have postponed. | Energy and planning |