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**Workplan for IRA2014001**

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| --- | --- | --- | --- | --- |
| **(Output/)Activities** | **Input Description** | **Quantity** | **Start** | **End** |
| 1 Project Management Team Operational |  |  |  |  |
| 1.5 IAEA Field Monitoring |  |  | / | / |
| 1.4 Preparing and submitting PPARs (every six months) |  |  | / | / |
| 1.3 Updating project work plan |  |  | / | / |
| 1.2 Conducting project review meetings |  |  | / | / |
|  |  |  |  |  |
| 2 A reviewed and improved safety management programme |  |  |  |  |
| 2.2 Preparatory visit for OSART mission |  |  | Q4/2016 | Q4/2016 |
|  | 2.2.1 Prepared action plan for implmentation OSART mission in Q4 2016, 1 Agency Expert and 2 External Experts | 3 People 3 Days | Q4/2016 | Q4/2016 |
| 2 A reviewed and improved safety management programme |  |  |  |  |
| 2.4 Implementation the nuclear safety oversight function |  |  | Q1/2017 | Q1/2017 |
|  | 2.4.1 One week follow-up Expert Mission to assist NPPD for Implementation the Nuclear oversight function completed by the end of Q1 2017(1 IAEA+2 external Expert) | 3 People 4 Days | Q1/2017 | Q1/2017 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.1 Training on modern method for measuring hydrogen concentration in containment and chemical-physical internal cleaning of Power plant equipment |  |  | Q3/2016 | Q3/2016 |
|  | 3.1.1 WS on "modern methods for measuring hydrogen concentration "by the end of Q3 2016.( 1 IAEA+ 3IEX) | 4 People 4 Days | Q3/2016 | Q3/2016 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.2 Training on environmental qualification of safety equipment of BNPP-1 |  |  | Q3/2016 | Q3/2016 |
|  | 3.2.1 3 SV on " environmental qualification of safety equipment BNPP" by the end of Q3 2016 | 1 People 5 Days | Q3/2016 | Q3/2016 |
|  | 3.2.2 3 SV on " environmental qualification of safety equipment BNPP" by the end of Q3 2016 | 1 People 5 Days | Q3/2016 | Q3/2016 |
|  | 3.2.3 3 SV on " environmental qualification of safety equipment BNPP" by the end of Q3 2016 | 1 People 5 Days | Q3/2016 | Q3/2016 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.3 Training on equipment reliablity assessment techniqes of equipment during operation |  |  | Q4/2016 | Q4/2016 |
|  | 3.3.9 WS on "Equipment reliablity assessment techniqes of equipment during operation" by the end of Q4 2016,(1 IAEA+3IEX) | 4 People 5 Days | Q4/2016 | Q4/2016 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.4 Training on containment leakage tests and calculations after outage |  |  | Q2/2017 | Q2/2017 |
|  | 3.4.1 4 SV on " Containment leakage tests and calculations after outage" by the end of Q2 2017 | 1 People 5 Days | Q2/2017 | Q2/2017 |
|  | 3.4.4 4 SV on " Containment leakage tests and calculations after outage" by the end of Q2 2017 | 1 People 5 Days | Q2/2017 | Q2/2017 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.8 Development of ageing management program for BNPP-1 |  |  | Q3/2016 | Q3/2016 |
|  | 3.8.1 EM on development of ageing management program for BNPP-1, (1 IAEA+ 3 IEX) | 4 People 5 Days | Q3/2016 | Q3/2016 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.10 Assistance on Computational Fluid Dynamic (CFD) analysis for safe operation for BNPP-1 |  |  | Q2/2016 | Q2/2016 |
|  | 3.10.1 WS on "Assistance on Computational Fluid Dynamic (CFD) analysis for safe operation for BNPP-1"( 1 IAEA+ 3 IEX) | 4 People 4 Days | Q2/2016 | Q2/2016 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.13 Assestance in improvement of Core Management Activities for Safe Operation of BNPP-1 |  |  | Q4/2016 | Q4/2016 |
|  | 3.13.1 EM on "Core Management calculation for Safe Operation of BNPP-1" ,( 1 IAEA+ 2 IEX) | 3 People 4 Days | Q4/2016 | Q4/2016 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.14 Assistance on safety aspects of fresh and spent fuel engineering |  |  | Q4/2016 | Q4/2016 |
|  | 3.14.1 EM on "Fuel Integrity Monitoring for Safe Operation of BNPP-1 "(Follow up - of the related activity conducted in project IRA 2 011), (1 IAEA + 2 IEX) | 3 People 4 Days | Q4/2016 | Q4/2016 |
| 4 An optimized and updated Maintenance and Outage Management programme |  |  |  |  |
| 4.4 Trainig on optimizing overall WWER-1000 reactor and refuling process with focus on new techniques and materials, modern tools and advance method to strengthen the capablityrefuling machine operators |  |  | Q1/2018 | Q1/2018 |
|  | 4.4.2 4 SV on " Optimizing overall WWER-1000 reactor and refuling process with focus on new techniques and materials, modern tools and advance method to strengthen the capablityrefuling machine operators in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
| 4 An optimized and updated Maintenance and Outage Management programme |  |  |  |  |
| 4.5 Training on enhancement of preparedness of BNPP emergency repair teams. |  |  | Q1/2018 | Q1/2018 |
|  | 4.5.3 4 SV on " Enhancement of preparedness of BNPP emergency repair teams" in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
| 5 Improved Human resources management system. |  |  |  |  |
| 5.5 Assistance in development of selected training scenarios for severe accidents in FSS |  |  | Q3/2016 | Q3/2016 |
|  | 5.5.1 EM on " Development of selected training scenarios for severe accidents in FSS " by Q3 2016 ( 1 IAEA + 2 IEX) | 3 People 3 Days | Q3/2016 | Q3/2016 |
| 5 Improved Human resources management system. |  |  |  |  |
| 5.6 Assistance in development & improvement of training system of maintenance & repair personnel . |  |  | Q4/2016 | Q4/2016 |
|  | 5.6.1 EM on " Development & improvement of training system of maintenance & repair personnel" in Q3 2016 ( 1 IAEA + 2 IEX) | 3 People 4 Days | Q4/2016 | Q4/2016 |
| 6 A reviewed and updated programme on accident/severe accident management and nuclear emergency response |  |  |  |  |
| 6.1 Assistance BNPP-1 in reveiw of off-site emergency prepardness and response |  |  | Q4/2016 | Q4/2016 |
|  | 6.1.1 WS on " Assistance in reveiw of off-site emergency prepardness and responseon preparation of BNPP and off-site organizations in Emergency situation" , by the end of Q4 2016( 1 IAEA + 2 IEX) | 3 People 4 Days | Q4/2016 | Q4/2016 |
| 6 A reviewed and updated programme on accident/severe accident management and nuclear emergency response |  |  |  |  |
| 6.3 Assistance on Severe Accident (SA) Analysis of the BNPP-1 |  |  | Q3/2016 | Q3/2016 |
|  | 6.3.1 WS on Severe Accident (SA) Analysis of BNPP-1, ( 1 IAEA + 2 IEX) | 3 People 4 Days | Q3/2016 | Q3/2016 |
| 7 An improved programme for occupational safety and environmental management |  |  |  |  |
| 7.3 Assistnace on methods for gamma spectrometry for high activity samples and counting devices in spectrometry Laboratories |  |  | Q2/2016 | Q2/2016 |
|  | 7.3.1 EM on " Assistnace on methods for gamma spectrometry for high activity samples and counting devices in spectrometry Laboratories" in Q2 2016 , ( 1 IAEA + 3 IEX) | 4 People 4 Days | Q2/2016 | Q2/2016 |
| 7 An improved programme for occupational safety and environmental management |  |  |  |  |
| 7.4 Assistance in environmental monitoring programme for BNPP-1 ( follow- up of assistance provided in IRA /2 /011) |  |  | Q2/2016 | Q2/2016 |
|  | 7.4.1 Support for the procurement ESTE environmental monitoring software specific for BNPP-1 | N/A | Q2/2016 | Q2/2016 |
| 2 A reviewed and improved safety management programme |  |  |  |  |
| 2.3 Implementation of OSART Mission |  |  | Q4/2016 | Q4/2016 |
|  | 2.3.1 15 days , OSART Mission with 12 IEX+3 Agency Experts, by end of Q4 2017 ( Partial/local cost supporting by host) | 6 People 15 Days | Q4/2016 | Q4/2016 |
| 2 A reviewed and improved safety management programme |  |  |  |  |
| 2.5 Assistance in review of implementation of the developed NPPD Co. Integrated Management System, plans for improvements including safety requirements for compliance by servisesproviders |  |  | Q1/2017 | Q1/2017 |
|  | 2.5.1 One week EM by the end of Q1 2017( 1 IAEA+ 3 IEx) | 4 People 4 Days | Q1/2017 | Q1/2017 |
| 2 A reviewed and improved safety management programme |  |  |  |  |
| 2.7 Enhancing the capabilities in Nuclear oversight functions by participation in OSART mission |  |  | Q1/2017 | Q1/2017 |
|  | 2.7.1 Participation in external OSART mission in NPP, preferable the same as BNPP is,for more readiness to implement own OSART mission in Q1 2017( partially/ local cost to be paid by the host) | 1 People 14 Days | Q1/2017 | Q1/2017 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.1 Training on modern method for measuring hydrogen concentration in containment and chemical-physical internal cleaning of Power plant equipment |  |  | Q2/2017 | Q2/2017 |
|  | 3.1.2 WS on "Chemical-Physical internal cleaning of reactor equipment", (1IAEA+2IEX) | 3 People 4 Days | Q2/2017 | Q2/2017 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.4 Training on containment leakage tests and calculations after outage |  |  | Q2/2017 | Q2/2017 |
|  | 3.4.2 4 SV on " Containment leakage tests and calculations after outage" by the end of Q2 2017 | 1 People 5 Days | Q2/2017 | Q2/2017 |
|  | 3.4.3 4 SV on " Containment leakage tests and calculations after outage" by the end of Q2 2017 | 1 People 5 Days | Q2/2017 | Q2/2017 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.5 Training on planning, organizing and implementing the modernization in top level control unit systems under LICS operating system; |  |  | Q1/2017 | Q1/2017 |
|  | 3.5.1 4 SV on "Decreasing the time response of APCS system" by the end of Q1 2017. | 1 People 5 Days | Q1/2017 | Q1/2017 |
|  | 3.5.2 4 SV on "Decreasing the time response of APCS system" by the end of Q1 2017. | 1 People 5 Days | Q1/2017 | Q1/2017 |
|  | 3.5.3 4 SV on "Decreasing the time response of APCS system" by the end of Q1 2017. | 1 People 5 Days | Q1/2017 | Q1/2017 |
|  | 3.5.4 4 SV on "Decreasing the time response of APCS system" by the end of Q1 2017. | 1 People 5 Days | Q1/2017 | Q1/2017 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.6 Assistance to strengthen the capability of BNPP personnel on application of new IAEA standards in modification MCR |  |  | Q1/2017 | Q1/2017 |
|  | 3.6.1 WS on " Application on new IAEA standadrds in modification I&C on MCR" by the end of Q1 2017. | 4 People 5 Days | Q1/2017 | Q1/2017 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.7 Assistance on safety aspects of extended BNPP-1 refueling cycles |  |  | Q1/2017 | Q1/2017 |
|  | 3.7.1 EM on "safety aspects of extended BNPP-1 refueling cycles" ,Q1 2017(1 IAEA+ 2 IEX) | 3 People 4 Days | Q1/2017 | Q1/2017 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.9 Stress and strength analysis of the main equipment of BNPP-1 |  |  | Q2/2017 | Q2/2017 |
|  | 3.9.1 WS on Stress and strength analysis of the main equipment of BNPP-1, Q2 2017 | 3 People 5 Days | Q2/2017 | Q2/2017 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.12 Assistance in performing the living PSA of the BNPP-1 |  |  | Q1/2017 | Q1/2017 |
|  | 3.12.1 EM to review the progress in development the data bank for living PSA of the BNPP-1 | 3 People 4 Days | Q1/2017 | Q1/2017 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.14 Assistance on safety aspects of fresh and spent fuel engineering |  |  | Q2/2017 | Q2/2017 |
|  | 3.14.2 EM on Physical Behaviour (thermal, nuetronic and radiation) of spent fuel, ( 1 IAEA + 2 IEX) | 3 People 4 Days | Q2/2017 | Q2/2017 |
| 4 An optimized and updated Maintenance and Outage Management programme |  |  |  |  |
| 4.1 Training on modern methods of Condition Based Maintenance at BNPP-1 for optimizing maintenance and repair programmes |  |  | Q1/2017 | Q1/2017 |
|  | 4.1.1 EM on "modern methods of Condition Based Maintenance at BNPP-1 for optimizing maintenance and repair programmes " in Q1 2017, (1 IAEA +3 IEX ) | 4 People 3 Days | Q1/2017 | Q1/2017 |
| 4 An optimized and updated Maintenance and Outage Management programme |  |  |  |  |
| 4.6 Assistance on improvement of the procurement system for goods and services necessary for BNPP safe and reliable operation and maintenance |  |  | Q2/2017 | Q2/2017 |
|  | 4.6.1 EM on " Assistance on improvement of the procurement system for goods and services necessary for BNPP safe and reliable operation and maintenance" ( 1 IAEA + 3 IEX) | 4 People 3 Days | Q2/2017 | Q2/2017 |
| 5 Improved Human resources management system. |  |  |  |  |
| 5.1 Training on competency models, method /assessment tools for effective competence and performance management of BNPP-1 personnel |  |  | Q1/2017 | Q1/2017 |
|  | 5.1.1 WS on " Competency models, method /assessment tools for effective competence and performance management of BNPP-1 personnel" in Q1 2017( 1 IAEA+ 2 IEX) | 3 People 3 Days | Q1/2017 | Q1/2017 |
| 5 Improved Human resources management system. |  |  |  |  |
| 5.2 Training on competency models, method /assessment tools for effective competence and performance management of BNPP-1 personnel |  |  | Q2/2017 | Q2/2017 |
|  | 5.2.1 3 Scientific visit on " competency models, method /assessment tools for effective competence and performance management of BNPP-1 personnel" by the end of Q2 2017 | 1 People 5 Days | Q2/2017 | Q2/2017 |
|  | 5.2.2 3 Scientific visit on " competency models, method /assessment tools for effective competence and performance management of BNPP-1 personnel" by the end of Q2 2017 | 1 People 5 Days | Q2/2017 | Q2/2017 |
|  | 5.2.3 3 Scientific visit on " competency models, method /assessment tools for effective competence and performance management of BNPP-1 personnel" by the end of Q2 2017 | 1 People 5 Days | Q2/2017 | Q2/2017 |
| 7 An improved programme for occupational safety and environmental management |  |  |  |  |
| 7.4 Assistance in environmental monitoring programme for BNPP-1 ( follow- up of assistance provided in IRA /2 /011) |  |  | Q4/2017 | Q4/2017 |
|  | 7.4.2 EM on "Review and assesment of results of environmental monitoring programme using the software ESTE" in Q4 2017(1 IAEA+ 2 IEX) | 3 People 3 Days | Q4/2017 | Q4/2017 |
| 1 Project Management Team Operational |  |  |  |  |
| 1.1 Confirming/Setting-up project team (CP, CP team in MS, PMO/TO) |  |  | Q1/2018 | Q1/2018 |
|  | 1.1.1 4 SV on " Training on enhancement of preparedness of BNPP emergency repair teams" in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
| 2 A reviewed and improved safety management programme |  |  |  |  |
| 2.1 Scientific Visits on management for safety in the field of operation, radiation protection, technical support and emergency preprdness. |  |  | Q2/2019 | Q2/2019 |
|  | 2.1.4 4 BNPP-1 Managers participate in the SV by the end of Q2 2019 | 1 People 5 Days | Q2/2019 | Q2/2019 |
| 2 A reviewed and improved safety management programme |  |  |  |  |
| 2.6 Implementation of effective safeguards system for BNPP-1 operators |  |  | Q3/2018 | Q3/2018 |
|  | 2.6.1 One week follow-up expert mission on Assistance and give technical advise to improve implementation of NMAC SYS for BNPP-1 Operator | 3 People 4 Days | Q3/2018 | Q3/2018 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.3 Training on equipment reliablity assessment techniqes of equipment during operation |  |  | Q1/2018 | Q1/2018 |
|  | 3.3.1 4 SV on " Proven methods for safety analysis of BNPP equipment reliability" in Q1 2018 ( follow-up of IRA/2/011) | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 3.3.2 4 SV on " Proven methods for safety analysis of BNPP equipment reliability" in Q1 2018 ( follow-up of IRA/2/011) | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 3.3.3 4 SV on " Proven methods for safety analysis of BNPP equipment reliability" in Q1 2018 ( follow-up of IRA/2/011) | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 3.3.4 4 SV on " Proven methods for safety analysis of BNPP equipment reliability" in Q1 2018 ( follow-up of IRA/2/011) | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 3.3.5 4 SV on "Advanced Equipment and techniques for In- service inspection of BNPP-1 primary circuit equipment" by Q3 2018( follow up the project IRA/2/011) | 1 People 5 Days | Q3/2018 | Q3/2018 |
|  | 3.3.6 4 SV on "Advanced Equipment and techniques for In- service inspection of BNPP-1 primary circuit equipment" by Q3 2018( follow up the project IRA/2/011) | 1 People 5 Days | Q3/2018 | Q3/2018 |
|  | 3.3.7 4 SV on "Advanced Equipment and techniques for In- service inspection of BNPP-1 primary circuit equipment" by Q3 2018( follow up the project IRA/2/011) | 1 People 5 Days | Q3/2018 | Q3/2018 |
|  | 3.3.8 4 SV on "Advanced Equipment and techniques for In- service inspection of BNPP-1 primary circuit equipment" by Q3 2018( follow up the project IRA/2/011) | 1 People 5 Days | Q3/2018 | Q3/2018 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.12 Assistance in performing the living PSA of the BNPP-1 |  |  | Q1/2019 | Q1/2019 |
|  | 3.12.2 EM on " Analysis of nuetronic parameters of reactor core for Safe Operation of BNPP-1"( 1 IAEA + 3 IEX) | 4 People 4 Days | Q1/2019 | Q1/2019 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.13 Assestance in improvement of Core Management Activities for Safe Operation of BNPP-1 |  |  | Q1/2018 | Q1/2018 |
|  | 3.13.2 WS on Analysis of Neutronic Parameters of the Reactor Core Using Signals of Core Monitoring System | 3 People 5 Days | Q1/2018 | Q1/2018 |
| 4 An optimized and updated Maintenance and Outage Management programme |  |  |  |  |
| 4.2 Training on implementation of strategies and advanced method/tools for Condition Based Maintenance at NPPs. |  |  | Q1/2018 | Q1/2018 |
|  | 4.2.1 4 SV on " Implementation of strategies and advanced method/tools for Condition Based Maintenance at NPPs." in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 4.2.2 4 SV on " Implementation of strategies and advanced method/tools for Condition Based Maintenance at NPPs." in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 4.2.3 4 SV on " Implementation of strategies and advanced method/tools for Condition Based Maintenance at NPPs." in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 4.2.4 4 SV on " Implementation of strategies and advanced method/tools for Condition Based Maintenance at NPPs." in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
| 4 An optimized and updated Maintenance and Outage Management programme |  |  |  |  |
| 4.3 Training on advance methods,new techniques and materials,modern tools for maintenance and repair of WWER-1000 reactor equipment |  |  | Q1/2018 | Q1/2018 |
|  | 4.3.1 WS on " Advance methods,new techniques and materials,modern tools for maintenance and repair of WWER-1000 reactor equipment" by the end of Q1 2018(1 IAEA +3 IEX) | 4 People 5 Days | Q1/2018 | Q1/2018 |
| 4 An optimized and updated Maintenance and Outage Management programme |  |  |  |  |
| 4.4 Trainig on optimizing overall WWER-1000 reactor and refuling process with focus on new techniques and materials, modern tools and advance method to strengthen the capablityrefuling machine operators |  |  | Q1/2018 | Q1/2018 |
|  | 4.4.1 4 SV on " Optimizing overall WWER-1000 reactor and refuling process with focus on new techniques and materials, modern tools and advance method to strengthen the capablityrefuling machine operators in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 4.4.3 4 SV on " Optimizing overall WWER-1000 reactor and refuling process with focus on new techniques and materials, modern tools and advance method to strengthen the capablityrefuling machine operators in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 4.4.4 4 SV on " Optimizing overall WWER-1000 reactor and refuling process with focus on new techniques and materials, modern tools and advance method to strengthen the capablityrefuling machine operators in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
| 4 An optimized and updated Maintenance and Outage Management programme |  |  |  |  |
| 4.5 Training on enhancement of preparedness of BNPP emergency repair teams. |  |  | Q1/2018 | Q1/2018 |
|  | 4.5.1 4 SV on " Enhancement of preparedness of BNPP emergency repair teams" in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 4.5.2 4 SV on " Enhancement of preparedness of BNPP emergency repair teams" in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
|  | 4.5.4 4 SV on " Enhancement of preparedness of BNPP emergency repair teams" in Q1 2018. | 1 People 5 Days | Q1/2018 | Q1/2018 |
| 5 Improved Human resources management system. |  |  |  |  |
| 5.3 Assistance in improvement of the performance assessment system of BNPP-1 personnel |  |  | Q1/2018 | Q1/2018 |
|  | 5.3.1 EM on "improvement of the performance assessment system of BNPP-1 by Q1 2018 (1 IAEA+ 3 IEX) | 4 People 4 Days | Q1/2018 | Q1/2018 |
| 6 A reviewed and updated programme on accident/severe accident management and nuclear emergency response |  |  |  |  |
| 6.3 Assistance on Severe Accident (SA) Analysis of the BNPP-1 |  |  | Q1/2018 | Q1/2018 |
|  | 6.3.2 EM on " review progress in development of the severe accident analysis model (using computer codes) for BNPP-1 using IAEA RAMP service"( 1 IAEA + 2 IEX) | 3 People 5 Days | Q1/2018 | Q1/2018 |
| 7 An improved programme for occupational safety and environmental management |  |  |  |  |
| 7.1 Training on improving BNPP occupational health and safety management system including specifications and methods for reducing the human errors and supervision on personnel performance. |  |  | Q1/2018 | Q1/2018 |
|  | 7.1.1 EM on " Improving BNPP occupational health and safety management system including specifications and methods for reducing the human errors and supervision on personnel performance" in Q1 2018, ( 1 IAEA + 3 IEX) | 4 People 5 Days | Q1/2018 | Q1/2018 |
| 7 An improved programme for occupational safety and environmental management |  |  |  |  |
| 7.2 Training on assessing doses in normal operation and radiological emergency. |  |  | Q1/2018 | Q1/2018 |
|  | 7.2.1 WS on "Assessing doses in normal operation and radiological emergency." by Q1 2018 (1 IAEA + 2 IEX) | 3 People 3 Days | Q1/2018 | Q1/2018 |
| 2 A reviewed and improved safety management programme |  |  |  |  |
| 2.1 Scientific Visits on management for safety in the field of operation, radiation protection, technical support and emergency preprdness. |  |  | Q2/2019 | Q2/2019 |
|  | 2.1.1 4 BNPP-1 Managers participate in the SV by the end of Q2 2019 | 1 People 5 Days | Q2/2019 | Q2/2019 |
|  | 2.1.2 4 BNPP-1 Managers participate in the SV by the end of Q2 2019 | 1 People 5 Days | Q2/2019 | Q2/2019 |
|  | 2.1.3 4 BNPP-1 Managers participate in the SV by the end of Q2 2019 | 1 People 5 Days | Q2/2019 | Q2/2019 |
| 3 Revised and improved Technical Support program . |  |  |  |  |
| 3.11 Implementation of Configuration Management (CM) in BNPP-1 |  |  | Q1/2019 | Q1/2019 |
|  | 3.11.1 EM on implementation of CM in BNPP-1, ( 1 IAEA + 3 IEX) | 4 People 5 Days | Q1/2019 | Q1/2019 |
| 5 Improved Human resources management system. |  |  |  |  |
| 5.4 Assistance in safety aspects of job classifications and of career development process for Bushehr NPP staff |  |  | Q1/2019 | Q1/2019 |
|  | 5.4.1 WS/EM on " safety aspects of job classifications and of career development process for Bushehr NPP staff" by the end of Q1 2019 ( 1 IEAE + 2 IEX) | 3 People 4 Days | Q1/2019 | Q1/2019 |
| 5 Improved Human resources management system. |  |  |  |  |
| 5.6 Assistance in development & improvement of training system of maintenance & repair personnel . |  |  | Q1/2019 | Q1/2019 |
|  | 5.6.2 EM on " Development & improvement of training system of maintenance & repair personnel" in Q1 2019 ( 1 IAEA + 3 IEX) | 4 People 4 Days | Q1/2019 | Q1/2019 |
| 6 A reviewed and updated programme on accident/severe accident management and nuclear emergency response |  |  |  |  |
| 6.2 Assistance in reviewing BNPP on-site emergency preparedness program |  |  | Q2/2019 | Q2/2019 |
|  | 6.2.1 EM on " Assistance in reviewing BNPP on-site emergency preparedness program" in Q2 2019 , ( 1 IAEA + 3 IEX) | 4 People 4 Days | Q2/2019 | Q2/2019 |

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