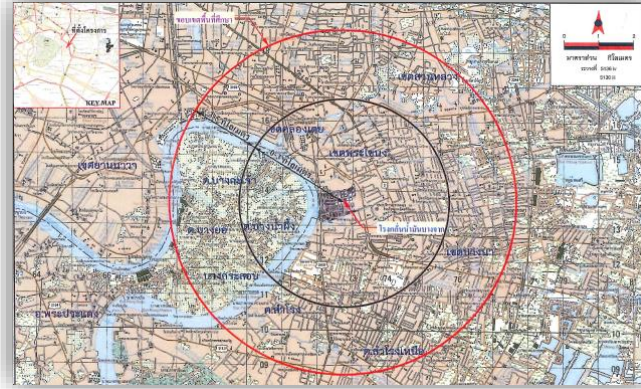


Change in project details no. 8Th (2019)



- Replace and revamp unit operations to improve efficiency, minimize energy consumption and modification of the electrical system.

Location :



Project Information and Objectives :

Project Information : 1) Installation new unit called "CCR" instead existing unit (CRU), 2) To revamp existing unit of NPU3 and 3) Modification of the electrical system.

Objectives :

- To improve the production efficiency
- To increase reliability of power generation system
- To reduce environment emission and its impacts

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Environmental Mitigation Measures during operation period

1. Environmental Measures :
 - 1.1 Monitor and control stack emission, workplace air quality and ambient air quality around the refinery to comply with the regulated emission standard announced by Ministry of Industrial Work of Thailand. Install CEMS at the stacks for continuous emission monitoring purpose.
 - 1.2 Monitor and control the effluent quality to comply with the regulated standard announced by Ministry of Industrial Work of Thailand.
 - 1.3 Follow up and control to ensure that wastes are stored and disposed properly
2. Occupational Health and Safety Measures:
 - 2.1 Annual health check and physical examination according to the risk factor.
 - 2.2 Monitor and control noise and heat levels in the workplace.
 - 2.3 Regularly check and provide preventive maintenance for all safety appliances and alarm system.
 - 2.4 Social measures towards the surrounding communities

Implementation results of Mitigation and Monitoring Measured

1. Stack Emission Quality (TSP, SO₂ and NO₂), Workplace Air Quality (T-VOCs, H₂S and BTEX) and Ambient Air Quality (TSP, PM-10, SO₂ and NO₂) : All Parameters comply with the regulated standard.
2. Effluent Quality (Temperature, pH, SS, TDS, BOD, COD, Oil & Grease, Sulfide, CN, Phenol and Hg) : All Parameters comply with the regulated standard.
3. All solid wastes were collected and sent to the authorized Parties certified by Department of Industrial Works for disposal.
4. Employee health checks by occupational medicine doctors. Health of all employees is at a normal level. Routine monitor noise and heat levels in the workplace, provision of appropriate PPE to the employees were provided. Conduct emergency response exercise and provide preventive maintenance for all safety appliances and emergency alarm system on a regular basis.
5. Conduct community satisfaction survey along with community relations program, finding their needs and expectations for further arrangement of proper responses.