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USAID ENERGY POLICY PROGRAM

VISIT REPORT

VERIFICATION OF PROJECT WORKS COMPLETED
UP TO APRIL 2012 AT TARBELA HYDRO POWER PLANT



April 2012

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House 4, Street 88, Sector G-6/3
Ataturk Avenue, Islamabad, Pakistan
Tel: +92 (51) 835 7072, Fax: +92 (51) 835 7071
Email: mshaikh@aeai.net

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I. PURPOSE of VISIT

A visit to Tarbela Hydro Power Plant was conducted on April 5, 2012 by Senior Energy Expert from AEAI and a representative from Hagler Bailly to review the environmental implementation and to monitor progress of the Repair and Rehabilitation of Tarbela Power Plant. The visit was important as it relates to expediting the completion of R & M Works under the USAID funding.

2. STATUS of WORKS in PROGRESS

For the purpose of monitoring of works in progress on the Tarbela Power Plant, Engr. Salim Paracha Senior Energy Expert and Mr. Hassan from Hagler and Bailly visited the power plant and inspected the completed and ongoing works as per FARA. A separate report will be issued by Hagler and Bailly regarding the implementation of EMMP at Tarbela.

On April 5, 2012 Tarbela Power Station was generating 735 MW at a reservoir level of 1378 ft. Tarbela plant generation capability at 1378 ft. is 1545 MW, however the river inflow and plant outflow was maintained to avoid further depletion of the reservoir which is already near dead level.

Following is the brief summary of the progress at FARA rehabilitation works;

1. Unit # 4 winding was replaced with new class F winding in May 2011 and the unit is capable of generating additional 108 MW since last summer.
2. Unit # 1 winding replacement started in early Oct 2011 and completed on Feb 3, 2012. The installation and testing, commissioning was carried out under the supervision of Hithachi engineers and Unit # 1 is operating at full load of 148 MW at reservoir level of 1458 feet. At full reservoir level of 1552 feet, the unit will generate 195 MW and there is a capacity gain of 10 MW from this unit. The winding temperatures were within acceptable limits and unit operation was smooth.
3. Unit # 3 shut down was approved from Feb 16, 2012. Winding replacement is progressing satisfactory under the supervision of Japanese experts from Marubeni and is expected to complete ahead of the target completion date of end May, 2012. WAPDA is finalizing the purchase order for the procurement of one third winding spares from Marubeni Corporation, Japan. WAPDA was reminded to expedite the purchase of spares as soon as possible.
4. New seals for Relief and Bypass Valves Units 1 – 10 arrived at Tarbela in Dec 2011. Replacement of seals completed on all units during March and April 2012.
5. New Station Drainage Pumps are at Tarbela and replacement of old pumps to start from mid. April 2012. Unwatering pumps are scheduled for shipment mid April 2012.
6. The manufacturing of Digital Governors completed at GE USA. Four WAPDA engineers are scheduled to visit USA to inspect the new Governors at GE works, prior to their release for shipment, which is expected in May 2012.
7. New SCADA system is under manufacturing with ABB and shipment date is not yet confirmed by the manufacturer ABB.
8. Third and last batch of seven WAPDA engineers from Tarbela have also completed training in Switzerland. Total twenty WAPDA engineers from Tarbela have completed training as per FARA.

Tarbela Power Station visit photographs are in the AEAI Share folder dated April 5, 2012.

Muhammad Salim Paracha
Senior Energy Expert
USAID Energy Policy Project, Islamabad

www.ep-ep.com.pk
info@ep-ep.com.pk