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# USAID ENERGY POLICY PROGRAM

## MONTHLY REPORT - III

OCT. – NOV. 2010

REHABILITATION OF TARBELA HYDRO POWER  
PLANT

USAID: TARBELA FIXED AMOUNT REIMBURSEMENT AGREEMENT  
NO. 391-TDR-FARA-002-00

**November 2010**

*This program is made possible by the support of the American people through the United States Agency for International Development (USAID)*

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NO. 391-TDR-FARA-002-00

Contract No: AID-EPP-I-00-03-00004

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## I. SUMMARY

The report presents progress on monitoring and support for Tarbela Rehabilitation program for the months of Oct-Nov 2010. . Overall there are no delays in the schedule for meeting the FARA timeline of Dec 31, 2011. The first Winding for Unit 4 is planned to be shipped from the Vendor's site in the first week of December. Tarbela staff has already acquired permission from National Power Control Center (NPCC) for shutdown of Unit 4. Shop Testing and Inspection of the winding was carried out in Japan by a team of WAPDA Engineers in September 2010. Tarbela staff has also filed a case with Federal Board of Revenue for the exemption of customs duty on the procurement of equipment under the FARA.

The remaining two windings for Unit 3 and Unit 1 are scheduled for shipment in January and March 2011. To further support the implementation of Tarbela Rehabilitation program, WAPDA authorities have dedicated a team constituting three officers for closely monitoring and promptly reporting to AEAI/USAID in case of any deviations from the schedule.

## 2. PROGRESS ON MONITORING AND SUPPORT

Lot no.	Description of Work	COMPLETION DATES				Remarks
		FARA	Tarbela Schedule	Last Month	Current Month	
1	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#4	May 31, 2011	May 31, 2011	May 31, 2011	June 30, 2011	Manufacturing of Winding is complete and shipment is expected in first week of Dec. 2010 which has been delayed for a month due to unavailability of boarding space. Shop testing was carried out at vendor's site from Sept 25-30 <sup>th</sup> . WAPDA engineers visited Japan to inspect/test the winding and getting training.
2	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#1	Dec 31, 2011	Nov 30, 2011	Nov 30, 2011	Completion is expected ahead of FARA schedule. Nov 30, 2011	Manufacturing is in progress and shipment from vendor is planned on Mar 1, 2011.
3	Replacement of Damaged Generator Stator Windings with Class F Insulation Windings, Unit#3	Sept 30, 2011	Dec 31, 2011	Dec 31, 2011	Completion is expected as per FARA schedule. Dec 31, 2011	Shipment from vendor is planned on Jan 1 <sup>st</sup> 2011.

<b>4</b>	Upgrading of the SCADA System, Units 1-14	Dec 31, 2011	Dec 31, 2011	Dec 31, 2011	Completion is expected as per FARA schedule. Dec 31, 2011	Bid evaluation is complete. CCC vetting is currently under progress.
<b>5</b>	Spare Seals & Guides for Relief and Bypass Valves on Turbine Side, Units 1-10	Oct 01, 2011	Dec 15, 2011	Dec 15, 2011	Completion is planned by Dec 15, 2011	Tender opening is complete and bid evaluation is under progress.
<b>6</b>	Replacement of Electromechanical Governors by Digital Ones, Unit 1-10	Dec 15, 2011	Dec 15, 2011	Dec 15, 2011	Completion is expected as per FARA schedule. Dec 15, 2011	Tender opening is complete and bid evaluation is under progress.
<b>7</b>	Replacement of Worn out Station Drainage and Dewatering Pumps, Units 1-10	Dec 15, 2011	Dec 15, 2011	Dec 15, 2011	Completion is expected as per FARA schedule. Dec 15, 2011	On recommendation of evaluation committee the case was re-tendered and evaluation is in progress.
<b>8</b>	Training	Dec 15, 2011	Dec 15, 2011	Dec 15, 2011	Completion is expected as per FARA schedule. Dec 15, 2011	Tarbela / WAPDA Staff are currently designing the training program and planning the procurement.

### 3. CRITICAL ISSUES AND USAID/AEAI SUPPORT REQUIRED

Item no.	Critical Issues	Status/Resolution	USAID/AEAI Support
1	WAPDA needs to acquire a Clearance Certificate from Federal Board of Revenue (FBR) for exemption of taxes and customs duties on procurement of all equipment under FARA.	AEAI discussed the matter with WAPDA authorities, Member (Power), GM (Hydel) and Chief Engineer Tarbela. The Chief Engineer made a formal request to the office of GM Finance (Power) who subsequently sent a letter to the Federal Board of Revenue (FBR).	AEAI provided WAPDA a copy of the Assistance Agreement and FARA, which will be used as basis of exemption from FBR. AEAJ is actively following-up the issue in case any support is required to expedite the process.
2	Shutdown of Tarbela Units for installation of equipment under FARA. This is the most critical issue which could possibly cause delays.  <b>Note: For the replacement of first winding Tarbela has already acquired permission from National Power and Control Centre (NPCC) for shutdown of Unit 4.</b>	Tarbela has an annual scheduled unit shutdown during six low water months (Nov till Apr) for annual maintenance of equipment. However, shutdown would be required in high water season when the demand is also at its peak (May – Oct) to meet the FARA timelines. WAPDA/Tarbela has already made a formal request to National Power Control Centre (NPCC) along with a shutdown plan,	AEAI is providing support to WAPDA / Tarbela Staff in order to optimize the schedule making best use of time and resources for meeting the FARA timelines.
3	In order to expedite the FARA schedule, WAPDA/Tarbela Power Station would require additional staff during the replacement of windings for Units 1, 3 and 4.	Tarbela Chief Engineer has already made a formal request to the offices of Chief Engineers' Mangla, Ghazi Barotha and Warsak hydro-power stations.	On request of AEAJ/USAID, WAPDA authorities have agreed to expedite the FARA schedule by adding temporary staff from Mangla, Ghazi Barotha and Warask hydro-power stations.

### 4. ACTION ITEMS FOR NEXT MONTH

- I. Follow up on status of Customs Clearance Certificate from FBR.
- II. Check with vendor (Marubeni-Hitachi) regarding the status of windings for Unit-3 which is under manufacturing.
- III. Plan for shop testing of Unit-3 winding after discussing with Marubeni-Hitachi and WAPDA authorities.

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