USAID | PAKISTAN
FROM THE AMERICAN PEOPLE

ENERGY POLICY PROGRAM

VISIT REPORT

SATPARA DAM PROJECT

JULY 15, 2013

This report is made possible by the support of the American People through the United States Agency for International Development (USAID). The contents of this report are the sole responsibility of the ENERGY POLICY PROGRAM and do not necessarily reflect the views of USAID or the United States Government.

USAID/PAKISTAN:
ENERGY POLICY PROGRAM (EPP)

Satpara Dam Field Visit Report

Contract No: AID-EPP-I-00-03-00004 **Order No**: AID-391-TO-12-00002

© USAID/Pakistan: Energy Policy Program
House 4, Street 88, Sector G-6/3
Ataturk Avenue, Islamabad
Phone: +92-51- 8357072 ● Fax: +92-51-8357071
Email: rsmith@aeai.net

DISCLAIMER
The authors' views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

Contents

1. PURPOSE of VISIT 4
2. STATUS of WORKS COMPLETED 4
3. SEEPAGE CONDITION at the DAM 4
4. SITE VISIT PHOTOGRAPHS 4

1. PURPOSE of VISIT

A field visit to monitor progress of works at Satpara Multipurpose Dam and Hydropower Project was conducted on July 15 - 16, 2013 by Senior Energy Expert of Energy Policy Program. In particular, a field inspection was carried out to witness the testing and full load operation of power house # 4 and monitor the construction progress of the damaged works and remaining portion of DR-1 of the irrigation system.

2. STATUS of WORKS COMPLETED

For the purpose of verifying completed works at the Satpara multipurpose dam project, EPP hydro expert Saleem Paracha inspected the project on site for physical verification of completed works.

During the last visit, problem was identified in the Automatic Voltage Regulator (AVR), as the unit-4 was not running at full load. WAPDA arranged for AVR Experts through Andritz to rectify the problem, and now both units of Power House # 4 are operating at full load of 700 KW, total 1.4 MW, which was verified. The operation of both units at full load was smooth and within technical parameters. With the completion of Power House # 4, the total generation of 17.6 MW has been achieved at Satpara Multipurpose Dam Project. During the commissioning tests and trail operation of Power houses # 3 & 4, WAPDA dispatched 25,130 Kwh of electricity to the Skardu Grid.

Following is the brief summary of project works completed up to July 15, 2013;

1. Civil Works for Dam and Powerhouse 1 & 2: Complete
2. Irrigation System: DR-I and repairs due to recent rains in progress (Expected completion end August 2013)
3. Civil, Electrical and Mechanical Works for 3 & 4: Both Powerhouses # 3 and 4 are fully commissioned and completed.
4. Consulting Services for Satpara Project: only Consultancy services remaining for DR-1

WAPDA has not yet signed a PPA with Gilgit-Baltistan PWD and was requested to address this issue immediately, so that WAPDA costs including O&M are recovered for a sustained project operation.

3. SEEPAGE CONDITION at the DAM

It was observed during the visit that the reservoir level was increasing due to increase in the inflow of water in the Satpara reservoir. On July 15, 2013 the reservoir level was 8,715 ft. and total seepage recorded downstream of the dam was 43 cusecs, which is acceptable.

4. SITE VISIT PHOTOGRAPHS

Site visit photographs are appended below;

Figure 1: Power House 4

Figure 2: Unit-2 of Power House 4 generating 700KW

Figure 3: Unit-1 of Power House 4

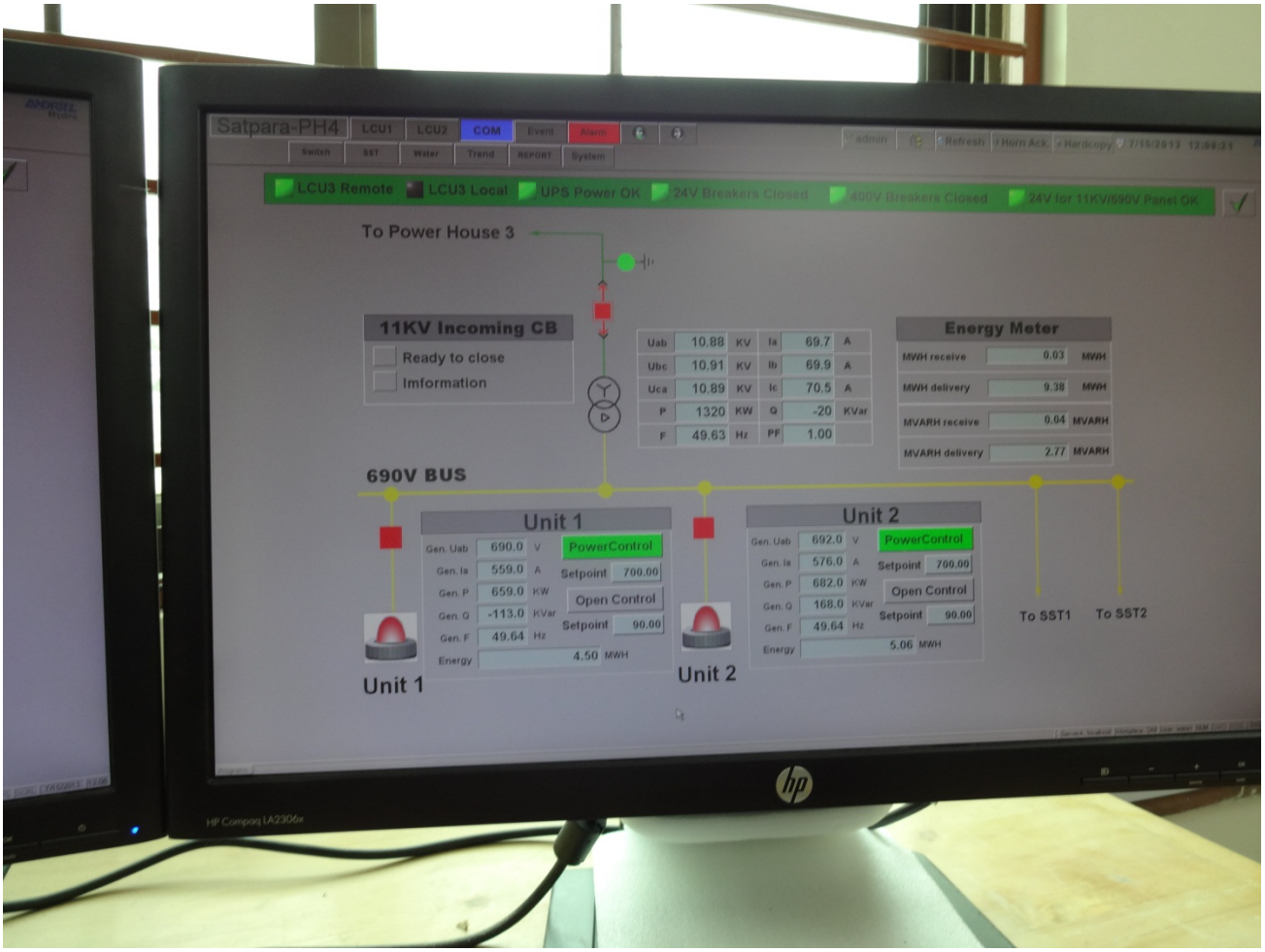

Figure 4: Power House-4 both units at full load

Figure 5: Satpara Dam Reservoir

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