

LTR-1000-203227

2018/07/08

Yes



To: Mr.A.V.Vostrikov

**Deputy General Director of Rusatom Service JSC for Operation Support –
ATEX JSC Managing Director**

**Sub: Reactor Power Decrease during the Status Change from the Pump SJ12D001
to the Pump SJ11D001**

Dear Sir,

Please find attached the application form (Appendix 3) based on the Contract No. CNT-ETS/4100-1 dated February 25th for providing the BNPP with the cause of the defect in the Turbine Control System and the required measures to be taken for preventing the recurrence of such defect in the Turbine Control System based on the results of analysis. You are kindly requested to make the necessary coordination for taking actions in this regard and keep us informed of results.

Sincerely yours

H.Ghaffari

Bushehr NPP Manager and Managing Director

Application Form for the Engineering Services at Principal's Request

To: Authorized Representative of the contractor Mr. A. Rumayantsev

Please be notified of the following Engineering Services for your consideration and submit us necessary Technical Assignment and contractual terms and condition based on the Item 4.1.2, Appendix 4 as soon as possible.

Name of Issue to be settled	<i>reactor power decrease at the time of status change from the Pump SJ12D001 to the Pump SJ11D001</i>	Principal/ Principal's Dept.	
Date of request	06.2018	Deadline of the Response	08.2018
Description of subject:	<p><i>Dear Sir,</i></p> <p><i>On 19.05.2018 at 10:25:51 o'clock during the operation of BNPP-1 at %100 of the nominal power when the working status of oil pump of the turbine control system changed (from pump SJ12D001 to the pump SJ11D001), during the simultaneous operation of the two pumps, by opening the valve at the outlet of the pump SJ11D001 the pressure decreased in the command line of the control valves from 2.98 MPa to 1.46 MPa.</i></p> <p><i>This led to the increase of pressure in the main steam collector to 6.7 MPa and the electrical power decreased to 822 MW. Then the system became stable and the Unit reached the nominal power.</i></p> <p><i>On 20.05.2018 at 00:40:53 pressure in the command line of the control valves decreased from 2.94 to 2.62 MPa in two seconds. It then increased to 3.11 MPa after 7 seconds and the system reached primary stable state. Fluctuation of electric power was in this way: 1015 – 1051 – 888 – 1015 MBm. Decrease of pressure of command line of control valves on 20.05.2018 was done without any impact of status change.</i></p> <p><i>To this day (30.05.2018), the system works without any defect. All of the needed information in regard to the two aforementioned events was sent to the Control System Section of JM3 Factory, Mr. A.B. Кондрашеву, by an email.</i></p> <p><i>You are kindly requested to provide us with the cause of the defect in the Turbine Control System and the required measures to be taken for preventing the recurrence of such defect in the Turbine Control System based on the results of analysis.</i></p>		
Attachment	_____		

Approved by Authorized Representative of the Principal

E. Deylami - BNPP-1 Deputy Chief Engineer for Technical and Engineering

