

LTR-1000-213321

2018/11/21

No



To: Mr.E.A Salkov
Director General of Rusatomservice

Sub: Problems related to the Vibration Sensors of Generator

Dear Sir,

In accordance with the order NO. 18084 of BNPP-1 in the year 2013, the control system of the vibration of the terminal busbars of turbogenerator was installed in order to monitor the amount of the vibration of the terminal busbars of the turbogenerator in different operation conditions and prevent the generator from being damaged. Over the last years, the sensors of vibration system have been damaged during operation and have stopped working. Therefore, they have imposed exorbitant costs on the Principal. The numbers of failed sensors which have already been replaced are as follows: 2 sensors in 2015, 3 sensors in 2016, 4 sensors in 2017 and 5 sensors in 2018. The studies performed indicate that the cause of the failure of the sensors is their connection and disconnection during operation due to the vibration of generator caused by lack of permanent connection of connectors in the generator hatch. Also, opening and closing the generator inspection hatch during repairs have led to weaken the connection of the related connectors. Therefore, you are requested to take necessary relevant measures in order to change the design of the outlet of connecting cables of the sensors from the hatch to the body of turbogenerator in a secured way and also the soldered connections in the Planned Preventive Maintenance (PPM) of the year 2019.

Sincerely yours

H.Ghaffari

Bushehr NPP Manager and Managing Director

