

LTR-1000-196302

2018/04/12

Yes



**To: Mr.A.V.Vostrikov**

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

**Sub: Optimization of Refrigerating Machines UF40-70D001 Performance during  
Operation**

Dear Sir,

Please find attached the application form (Appendix 3) based on the Contract No. CNT-ETS/4100-1 dated February 25th, 2015 for performing an assessment of the proposed schematic design impact on safety and developing the design for implementation of additional heat exchanging equipment into the existing scheme aiming at optimization of Refrigerating Machines UF40-70D001 performance during operation and enhancement of reliability of UF cooling systems on account of RM redundancy. 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 for engineering services under the Principal's request**

**Authorized representative of the Contractor Mr. A.P. Rumyantsev**

Please be notified of the following operation support engineering services for your consideration and submit us necessary technical assignment and contractual terms and conditions based on item 4.1.2 of Appendix 4 of the Contract as soon as possible.

|  |   |                                   |                     |
|--|---|-----------------------------------|---------------------|
| <b>Name of issue to be settled</b>   | Optimization of refrigerating machines UF40-70D001 performance during operation | <b>Principal/ Principal's Dpt</b> | <b>BNPP/HVACDpt</b> |
| <b>Date of request</b>   | 10.04.2018  | <b>Deadline of response</b>       | 10.07.2018          |
| <p>In winter season, refrigerating machines UF40-70D001 operate under load below 20%, which violates the requirements of operation instruction 16.BU.1.0.UF.AB.WI.ATEX002-2. This results in increase of the load on guide unit (PRV), failure of this guide unit and breakdown of the compressor impeller. Moreover, in summer season, the load on RM does not exceed 25% as well.</p> <p>For optimization of refrigerating machines UF40-70D001 operation and enhancement of reliability of UF cooling systems on account of RM redundancy, you are required to perform assessment of the proposed schematic design impact on safety and develop the design for implementation of additional heat exchanging equipment into the existing scheme.</p> |   |                                   |                     |
| <b>Attachment</b>  | Diagram of additional heat exchanger installation on UF40-70 systems.           |                                   |                     |

**Deputy Chief Engineer of BNPP-1 –  
authorized representative of the Principal**

**E. Deylami**

МОБУК  
М. АББАХ.  
Mall

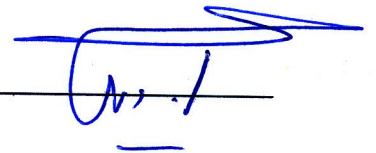


Схема установки дополнительного  
теплообменника на системах UF40-70  
Diagram of additional heat exchanger  
installation on UF40-70 systems

