

LTR-1000-205824

2018/08/09

Yes



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

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

**Sub: Removal of LPH-4 Vessel from Group “C” as per PNAE G-7-008-89**

Dear Sir,

Please find attached the application form (Appendix 3) based on the Contract No. CNT-ETS/4100-1 dated February 25<sup>th</sup>, 2015 for taking into consideration the possibility of removal of LPH-4 vessel from group “C” according to PNAE G-7-008-89.

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. Rummyantsev

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 Appendix 4 of the Contract as soon as possible.

<b>Name of issue to be settled</b>	Removal of LPH -4 vessel from group «C» as per PNAE G-7-008-89	<b>Principal/ Principal's Dpt</b>	BNPP/TC
<b>Date of request</b>	08.2018	<b>Deadline of response</b>	09.2018
<p>Based on technical decision «Application of rules and regulations effective in power engineering for systems of turbine plant K-1000-60/3000-3 of Bushehr NPP-1» (scope of design and responsibility of AO «Power Machines» branch in Saint-Petersburg («LMZ»)) (Appendix №1, items 12.2 and 13, Table 3.2.2-4) and according to items 12.2 and 13 of FSAR (№49.BU.1 O.O.OO.FSAR.RDROOL, Table 3.2.2-4), RD pipelines (secondary steam input to MSR) and steam extraction pipelines on LPH-4 downstream bypass pipes HPC – MSR upstream LPH-4 were removed from group «C».</p> <p>In accordance with item 1.1.7 of PNAE G-7-008-89, the below is included into group C referring to safety class 3:</p> <ol style="list-style-type: none"><li>1) equipment and pipelines not included into groups A and B, which destruction will result in the leak of coolant, which ensures reactor core cooling;</li><li>2) equipment and pipelines, which destruction will result in the failure of one of the safety systems or one of its channels;</li><li>3) equipment and pipelines, which destruction will result in the release of high or medium radioactive environment (as stated in "Sanitary rules of nuclear power plants design and operation "-SPAES").</li></ol> <p>In accordance with item 1.1.2 of PNAE G-7-008-89, the requirements of these rules do not cover the below elements of equipment and pipelines under sub-item 7 of i. 1.1.1:</p> <ul style="list-style-type: none"><li>- vessels of turbines, cutoff valves of reheating, bypass pipelines within the boundary of turbine and steam extraction pipelines (if shutoff element is available on the pipeline) downstream turbine upstream shutoff element.</li></ul> <p>In view of the above, you are requested to consider the possibility of removal of LPH-4 vessel from group «C».</p>			
<b>Attachment</b>	---		

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

E. Deylami

