

LimerickNPEm Resource

From: Christopher.Wilson2@exeloncorp.com
Sent: Thursday, January 12, 2012 10:54 AM
To: Kuntz, Robert
Subject: RWCU Pump bolting
Attachments: Pages from UFSAR Chapters 1-4.pdf

Rob,
As a follow-up to Bill Holston from our phone call

Table 3.9-6 (p) of the UFSAR clearly shows the bolting as low strength (less than 150 KSI)

Chris Wilson
Exelon Nuclear
KSQ License Renewal
610-765-5667 (office) 609-709-3249 (cell)
200 Exelon Way, KSA/2-E

***** This e-mail and any of its attachments may contain Exelon Corporation proprietary information, which is privileged, confidential, or subject to copyright belonging to the Exelon Corporation family of Companies. This e-mail is intended solely for the use of the individual or entity to which it is addressed. If you are not the intended recipient of this e-mail, you are hereby notified that any dissemination, distribution, copying, or action taken in relation to the contents of and attachments to this e-mail is strictly prohibited and may be unlawful. If you have received this e-mail in error, please notify the sender immediately and permanently delete the original and any copy of this e-mail and any printout. Thank You. *****

Hearing Identifier: Limerick_LR_NonPublic
Email Number: 434

Mail Envelope Properties (9A15F707EB47A04D882D9FEB352EDDF80399372F)

Subject: RWCU Pump bolting
Sent Date: 1/12/2012 10:54:14 AM
Received Date: 1/12/2012 10:54:22 AM
From: Christopher.Wilson2@exeloncorp.com

Created By: Christopher.Wilson2@exeloncorp.com

Recipients:
"Kuntz, Robert" <Robert.Kuntz@nrc.gov>
Tracking Status: None

Post Office: cccmsxch12.energy.power.corp

Files	Size	Date & Time
MESSAGE	1125	1/12/2012 10:54:22 AM
Pages from UFSAR Chapters 1-4.pdf		11986

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

LGS UFSAR

Table 3.9-6(p)

RWCU PUMP

Following is a summary of the design calculations on the RWCU pump (B, C only):

<u>Pump Part⁽¹⁾</u>	<u>CALCULATED STRESS (psi)</u>	<u>ALLOWABLE STRESS (psi)</u>
Casing wall	10,820	12,814
Cover bolting	20,000	25,000
Pedestal bolt (shear)	18,015	44,000
<u>Motor Part⁽²⁾</u>		
Motor foot bolts (shear)	174	60,000
Pump pedestal bolt (shear)	194	60,000
Foundation bolting	230	60,000

Following is a summary of the design calculations on the "A" RWCU pumps:

<u>Part(1)</u>	<u>Calc. Stress (psi)</u>	<u>Allowable Stress (psi)</u>
Pump Suction Nozzle	12,774 (U1) 1,582 (U2)	15,000
Pump Discharge Nozzle	12,824 (U1) 1,546 (U2)	17,500
Motor Case Outlet Nozzle	5,995 (U1) 5,995 (U2)	17,500
Motor Case Inlet Nozzle	5,997 (U1) 5,997 (U2)	17,500
Pump Support Flange Bolts (shear)	3,437 (U1) 3,325 (U2)	25,833 (U1) 11,800 (U2)
Pump Case/Motor Case Studs	23,229 (U1) 23,229 (U2)	25,000

⁽¹⁾ ASME Code calculations.

⁽²⁾ Non-ASME Code calculations.