

**Ring, Mark**

**From:** Shear, Gary  
**Sent:** Tuesday, August 14, 2012 6:04 AM  
**To:** Ring, Mark  
**Cc:** Giessner, John; Riemer, Kenneth; Cameron, Jamnes; Casto, Chuck; Kunowski, Michael; Lara, Julio; Duncan, Eric  
**Subject:** FW: ACTION: Followup of list of NPPs with RPVs forged by Rotterdam Dockyards (RDM)

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**From:** Hiland, Patrick  
**Sent:** Monday, August 13, 2012 3:15 PM  
**To:** McIntyre, David; Burnell, Scott  
**Cc:** Wert, Leonard; Howell, Art; Pederson, Cynthia; Lew, David; Brown, Frederick; Ogle, Chuck; Roberts, Darrell; Miller, Chris; Rels, Terrence; Croteau, Rick; Ogle, Chuck; Munday, Joel; Reynolds, Steven; Shear, Gary; OBrien, Kenneth; Kennedy, Kriss; Vegel, Anton; Blount, Tom; Howe, Allen; Dorman, Dan; Boger, Bruce; Cheok, Michael; Hardies, Robert; Poehler, Jeffrey; Evans, Michele  
**Subject:** FW: ACTION: Followup of list of NPPs with RPVs forged by Rotterdam Dockyards (RDM)

David/Scott, we've confirmed through DORL's direct conversations with licensees that 10 U.S. reactor vessels were manufactured at Rotterdam. Note that our list contains one plant not on the Belgium list (Watts Bar -2) and identification that contrary to the Belgium list, Quad Cities 1 was not manufactured by Rotterdam (see note).

Site/Unit(s)	Question: Were RPV(s) forged by Rotterdam Droogdok Maatschappij	Comments
Catawba 1	Yes	
McGulre 2	Yes	
North Anna 1	Yes	
North Anna 2	Yes	
Quad Cities 1	No	According to the attached Quad Cities UFSAR Section 5.3.1.2 and Manufacturing History, the Quad Cities, Unit 1 RPV was manufactured entirely by Babcock & Wilcox. The Unit 2 RPV history did not include any forging at Rotterdam (RDM), but did include assembly and welding on portions of the RPV at RDM.
Sequoyah 1&2	Yes	Section 5.4.2, first sentence (Page 5.4-2), of the SQN UFSAR states that "The reactor vessel manufactured by DeRotterdam Drogdak Mattschappu N.V. (The Rotterdam Dockyard Company) is cylindrical with a welded hemispherical bottom head and a removable, bolted flanged and gasketed, hemispherical upper head." So, to answer your question, Yes, the Sequoyah Units 1 and 2 reactor vessels are forged by Rotterdam Dockyards.
Surry 1	Yes	
Surry 2	Yes	
Watts Bar 1&2	Yes	

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