

Poehler, Jeffrey

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From: Poehler, Jeffrey *MPK*
Sent: Thursday, August 16, 2012 8:38 AM
To: Hopkins, Jon
Cc: Cheek, Michael; Hiland, Patrick; Rosenberg, Stacey; Fairbanks, Carolyn
Subject: RE: QUESTION: Followup of list of NPPs with RPVs forged by Rotterdam Dockyards (RDM)

Jon,

I don't have that information. I'm going to have to do some digging to see if it exists. However, it appears that even the forging were made by other companies and supplied to RDM. I doubt that RDM manufactured its own plates.

Jeffrey C. Poehler
Sr. Materials Engineer
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(301) 415-8353

From: Hopkins, Jon *MPK*
Sent: Wednesday, August 15, 2012 10:10 AM
To: Poehler, Jeffrey
Cc: Cheek, Michael; Hiland, Patrick
Subject: QUESTION: Followup of list of NPPs with RPVs forged by Rotterdam Dockyards (RDM)

Jeff,

For Surry 1 and 2, did RDM make the plate for the RPVs or did it just weld together the plates supplied by someone else?

Thank you, Jon

From: Poehler, Jeffrey
Sent: Monday, August 13, 2012 4:00 PM
To: Hardies, Robert; Fairbanks, Carolyn
Subject: RE: ACTION: Followup of list of NPPs with RPVs forged by Rotterdam Dockyards (RDM)

Watts Bar 2 hasn't operated yet...but may soon. Surry 1 and 2 were welded by Rotterdam but of plate not forgings.

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From: Hardies, Robert *MPK*
Sent: Monday, August 13, 2012 3:58 PM
To: Poehler, Jeffrey; Fairbanks, Carolyn
Subject: FW: ACTION: Followup of list of NPPs with RPVs forged by Rotterdam Dockyards (RDM)

Mystery solved. The numbers work out now. But which is the plant that has never operated....or s that one not on this list?

B/129

From: Hopkins, Jon
Sent: Monday, August 13, 2012 3:52 PM
To: Hiland, Patrick
Cc: Cheok, Michael; Hardies, Robert
Subject: FW: ACTION: Followup of list of NPPs with RPVs forged by Rotterdam Dockyards (RDM)

Pat,

Verification from DORL of U.S. NPPs with RDM reactor pressure vessels is below. Yes except for the BWRs, Fermi & Quad, No.

Jon

From: Meighan, Sean *mm*
Sent: Monday, August 13, 2012 3:47 PM
To: Roque-Cruz, Carla; Hopkins, Jon
Cc: Thompson, Jon; Sreenivas, V; Mozafari, Brenda; Lingam, Siva; Cotton, Karen; Poole, Justin; Chawla, Mahesh; Boska, John; Quichocho, Jessie; Dudek, Michael; Guzman, Richard; Martin, Robert; Frankl, Istvan; Coffin, Stephanie; Evans, Michele
Subject: RE: ACTION: Followup of list of NPPs with RPVs forged by Rotterdam Dockyards (RDM)

Jon:

Below is the requested info re: RPVs forged by Rotterdam Dockyards (RDM).

With this e-mail I consider the question to be answered. If you need further info, please send e-mail to me and cc: Michele Evans.

V/R
s

Site/Unit(s)	Question: Were RPV(s) forged by Rotterdam Droogdok Maatschappij	Comments
Catawba 1	Yes	
Fermi 2	No	
McGuire 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 DeRotterdamse Droogdok Maatschappij 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	

From: Meighan, Sean

Sent: Monday, August 13, 2012 10:57 AM

To: Thompson, Jon; Sreenivas, V; Mozafari, Brenda; Lingam, Siva; Cotton, Karen; Poole, Justin; Chawla, Mahesh

Cc: Boska, John; Quichocho, Jessie; Dudek, Michael; Guzman, Richard; Martin, Robert; Frankl, Istvan; Coffin, Stephanie; Evans, Michele

Subject: ACTION: Followup of list of NPPs with RPVs forged by Rotterdam Dockyards (RDM)

PMs:

(Tasking from Michele Evans)

Please read below and attached.

Action: Ask the licensees of the units below to verify if their units Reactor Pressure Vessel(s) were forged by Rotterdam Droogdok Maatschappij (also referred to as Rotterdam Dockyards or RDM). The RPV forgings may have been welded together by another company such as B&W. NRC is interested in who forged the parts

Due to the quick turn around requested and the evolving nature of the issue, we suggest you call your licensing contact, discuss the issue and get a call back with the answer. We understand the licensee would like some context with the question, feel free to send attached to the licensee. We actually suspect this issue is already on their radar screen.

Due: COB today.

Any questions, just call me.

BCs – if the primary PM for the site is out today, forward to the backup PM.

FYI, this tasking does not violate the Paperwork Reduction Act due to small number of (<10) requested responders.

Catawba 1	PWR	4	1129	1985	Westi
Fermi 2					

	Catawba 1	PWR	4	1129	1985	W
	Fermi 2					
	McGuire 2	PWR	4	1100	1983	W
	North Anna 1	PWR	3	903	1978	W
	North Anna 2	PWR	3	973	1980	W
	Quad Cities 1	BWR	-	882	1972	G
	Sequoyah 1	PWR	4	1162	1980	W
	Sequoyah 2	PWR	4	1126	1981	W
	Surry 1	PWR	3	839	1972	W
	Surry 2	PWR	3	800	1973	W
	Watts Bar 1	PWR	4	1123	1996	W
	Watts Bar 2	PWR				W