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Poole, Justin

From: Meighan, Sean *MSR*  
 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)  
 Attachments: Potential problem on the reactor pressure vessel (RPV) of the Belgian Doel 3 NPP; Doel 3 - RPV preliminary IRS report\_final.docx

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

B/17

**From:** Hopkins, Jon *in*  
**Sent:** Monday, August 13, 2012 10:06 AM  
**To:** Meighan, Sean  
**Subject:** REQUEST: Followup of list of NPPs with RPVs forged by Rotterdam Dockyards (RDM)

Sean,

Question for PMs to ask licensees is; Was your plants' RPV forged by RDM (Rotterdam Dockyards) ?

The RPV forgings may have been welded together by another company such as B&W. NRC is interested in who forged the parts.

NRC is interested because the of UT indications recently found on the RPV forgings at Doel 3 NPP in Belgium. The Doel 3 licensee, Electrabel, provided the below table of NPPs with RPVs forged by Rotterdam Dockyards (Only Belgium and U.S. included in this email. There are additional plants/countries). This is preliminary information the accuracy of which the NRC wants to confirm for U.S. NPPs.

Reactor Pressel Vessels forged by Rotterdam Droogdok Maatschappij (also referred to as Rotterdam Dockyards or RDM)

- o The Doel 3 and Tihange 2 RPVs were forged by RDM, which according to the Licensee Electrabel provided some 20+ vessels in Europe and the US.
- o The table below gives an overview of these RPVs (this list has been established by the licensee and could contain errors or omissions).

Doel 3	PWR	3	1000	1982	Framatom
Tihange 2	PWR	3	1000	1982	Framatom
Catawba 1	PWR	4	1129	1985	Westinghc
Fermi 2					
McGuire 2	PWR	4	1100	1983	Westinghc
North Anna 1	PWR	3	903	1978	Westinghc
North Anna 2	PWR	3	973	1980	Westinghc
Quad Cities 1	BWR	-	882	1972	General El
Sequoyah 1	PWR	4	1162	1980	Westinghc
Sequoyah 2	PWR	4	1126	1981	Westinghc
Surry 1	PWR	3	839	1972	Westinghc
Surry 2	PWR	3	800	1973	Westinghc
Watts Bar 1	PWR	4	1123	1996	Westinghc
Watts Bar 2	PWR				Westinghc