

December 18, 2017



United States Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

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50-280/281
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DPR-32/37

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION ENERGY VIRGINIA)
DOMINION NUCLEAR CONNECTICUT, INC.
MILLSTONE POWER STATION UNITS 2 AND 3
NORTH ANNA AND SURRY POWER STATIONS UNITS 1 AND 2
ANCHOR DARLING DOUBLE DISC GATE VALVE INFORMATION AND STATUS

- References: 1) Letter from Greg Krueger (NEI) to John Lubinski (U.S. Nuclear Regulatory Commission), "Anchor Darling Double Disc Gate Valve Industry Resolution Plan Update (Project 689)," dated August 4, 2017
- 2) Letter from Joe Pollock (NEI) to Brian Holian (U.S. Nuclear Regulatory Commission), "NSIAC Concurrence on Anchor Darling Double Disc Gate Valve Industry Response Actions (Project 689)," dated October 26, 2017
- 3) BWROG Topical Report TP-16-1-112, Revision 4, "Recommendations to Resolve Flowserve 10 CFR Part 21 Notification Affecting Anchor Darling Double Disc Gate Valve Wedge Pin Failure"

In Reference 1, the Nuclear Energy Institute (NEI) provided the NRC a resolution plan for the U.S. Nuclear Industry to address the known Anchor Darling Double Disk Gate Valve (ADDDGV) issues. Reference 2 indicated each utility would provide a listing of their Anchor Darling valve population with active safety functions along with relevant valve information, including the results of susceptibility evaluations, repair status, and a repair schedule for each susceptible valve not yet repaired. This letter serves to provide this information for Millstone Power Station (MPS) Units 2 and 3, and North Anna and Surry Power Stations (NAPS and SPS, respectively) Units 1 and 2.

The attachments to this letter contain the following information for each ADDDGV:

- Plant Name, Unit, and Valve ID.
- System.
- Valve Functional Description.
- Valve Size.

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- Active Safety Function (Open, Close, Both).
- Are multiple design basis post-accident strokes required (Yes/No)?
- Expert Panel Risk Ranking (High, Medium, Low).
- Result of Susceptibility Evaluation (Susceptible or Not Susceptible).
- Is the susceptibility evaluation in general conformance with TP16-1-112R4 (Reference 3)?
- Does the susceptibility evaluation rely on thread friction? If yes, was the COF greater than 0.10? For cases where thread-friction was relied upon, information is provided whether the coefficient of friction was above or below 0.1.
- Was an initial stem-rotation check performed? If yes, include rotation criteria (i.e., ≤ 10 degrees or ≤ 5 degrees).
- Was the diagnostic test data reviewed for failure precursors described in TP16-1-112R4 (Reference 3)?
- Valve Repair Status (i.e., Repaired or Not Repaired).
- Repair Schedule for Each Susceptible Valve.

Regarding the last bullet, as noted in the attachments, no susceptible valves were identified during our review in addition to those included in our August 31, 2017 letter (ADAMS Accession No. ML17250A157). Consequently, repair schedules for the listed valves are not included.

Should you have any questions or require additional information, please contact Mr. Gary D. Miller at (804) 273-2771.

Respectfully,



Mark D. Sartain
Vice President – Nuclear Engineering and Fleet Support
Virginia Electric and Power Company
Dominion Energy Nuclear Connecticut, Inc.

Summary of Regulatory Commitments:

No new regulatory commitments are contained in this letter.

Attachments:

1. Anchor Darling Double Disc Gate Valve Information and Status – Millstone Power Station Units 2 and 3
2. Anchor Darling Double Disc Gate Valve Information and Status – North Anna Power Station Units 1 and 2
3. Anchor Darling Double Disc Gate Valve Information and Status – Surry Power Station Units 1 and 2

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Attachment 1

ANCHOR DARLING DOUBLE DISC GATE VALVE
INFORMATION AND STATUS

Dominion Nuclear Connecticut, Inc.
Millstone Power Station Units 2 and 3

Millstone Power Station Units 2 and 3 Active Safety Function Anchor Darling Double Disc Gate Valve Listing														
Plant Name	Unit	Valve ID	System	Valve Functional Description	Valve Size (inches)	Active Safety Function (Open, Close, Both)	Are Multiple Design Basis Post-Accident Strokes Required? (Yes/No)	Expert Panel Risk Ranking (High, Medium, Low)	Result of Susceptibility Evaluation (Susceptible or Not Susceptible)	Is the Susceptibility Evaluation in General Conformance with TP16-1-112R4? ^(A) (Yes/No)	Does the Susceptibility Evaluation Rely on Thread Friction? If Yes, was the COF Greater than 0.10? (No), (Yes, >0.10) (Yes, ≤0.10)	Was an Initial Stem-Rotation Check Performed? If Yes, Include Rotation Criteria (No), (Yes, ≤10 deg.), (Yes, ≤5 deg.)	Was the Diagnostic Test Data Reviewed for Failure Precursors Described in TP16-1-112R4? (Yes/ No)	Valve Repair Status (Repaired or Not Repaired)
MPS	2	2-CS-4.1A	Containment Spray	“A” Containment Spray Header Isolation Valve	8	Both	Yes	High	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
MPS	2	2-CS-4.1B	Containment Spray	“B” Containment Spray Header Isolation Valve	8	Both	Yes	High	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
MPS	2	2-CS-13.1A	Containment Spray	RWST Outlet Header “A” Isolation Valve	18	Close	No	Medium	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
MPS	2	2-CS-13.1B	Containment Spray	RWST Outlet Header “B” Isolation Valve	18	Close	No	Medium	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
MPS	2	2-CS-16.1A	Containment Spray	Containment Sump Outlet Header “A” Isolation Valve	24	Both	Yes	High	Not Susceptible	Yes	Yes, <0.10	No	Yes	Not repaired
MPS	2	2-CS-16.1B	Containment Spray	Containment Sump Outlet Header “B” Isolation Valve	24	Both	Yes	High	Not Susceptible	Yes	Yes, <0.10	No	Yes	Not repaired
(A) Applied Wedge Pin Torque must bound anticipated design basis operating torque requirements and current maximum total torque.														

Attachment 2

ANCHOR DARLING DOUBLE DISC GATE VALVE
INFORMATION AND STATUS

**Virginia Electric and Power Company
(Dominion Energy Virginia)
North Anna Power Station Units 1 and 2**

North Anna Power Station Units 1 and 2 Active Safety Function Anchor Darling Double Disc Gate Valve Listing														
Plant Name	Unit	Valve ID	System	Valve Functional Description	Valve Size (inches)	Active Safety Function (Open, Close, Both)	Are Multiple Design Basis Post-Accident Strokes Required? (Yes/No)	Expert Panel Risk Ranking (High, Medium, Low)	Result of Susceptibility Evaluation (Susceptible or not Susceptible)	Is the Susceptibility Evaluation in General Conformance with TP16-1-112R4? ^(A) (Yes/No)	Does the Susceptibility Evaluation Rely on Thread Friction? If Yes, was the COF Greater than 0.10? (No), (Yes, >0.10), (Yes, ≤0.10)	Was an Initial Stem-Rotation Check Performed? If Yes, include Rotation Criteria (No), (Yes, ≤10 deg.), (Yes, ≤5 deg.)	Was the Diagnostic Test Data Reviewed for Failure Precursors Described in TP16-1-112R4? (Yes/ No)	Valve Repair Status (Repaired or not Repaired)
NAPS	1	1-RH-MOV-1720A	Residual Heat Removal	Residual Heat Removal to "B" RCS Loop	10X8X10	Open	No	Medium	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
NAPS	1	1-RH-MOV-1720B	Residual Heat Removal	Residual Heat Removal to "C" RCS Loop	10X8X10	Open	No	Medium	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
NAPS	1	1-SI-MOV-1890A	Safety Injection	Low Head Safety Injection Hot Leg Injection Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
NAPS	1	1-SI-MOV-1890B	Safety Injection	Low Head Safety Injection Hot Leg Injection Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
NAPS	1	1-SI-MOV-1890C	Safety Injection	Low Head Safety Injection Cold Leg Injection Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
NAPS	1	1-SI-MOV-1890D	Safety Injection	Low Head Safety Injection Cold Leg Injection Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
NAPS	2	2-RH-MOV-2720A	Residual Heat Removal	Residual Heat Removal to "B" RCS Loop	10X8X10	Open	No	Medium	Not Susceptible	Yes	Yes, >0.10	Yes, ≤5 deg.	Yes	Not repaired

North Anna Power Station Units 1 and 2 Active Safety Function Anchor Darling Double Disc Gate Valve Listing														
Plant Name	Unit	Valve ID	System	Valve Functional Description	Valve Size (inches)	Active Safety Function (Open, Close, Both)	Are Multiple Design Basis Post-Accident Strokes Required? (Yes/No)	Expert Panel Risk Ranking (High, Medium, Low)	Result of Susceptibility Evaluation (Susceptible or not Susceptible)	Is the Susceptibility Evaluation in General Conformance with TP16-1-112R4? ^(A) (Yes/No)	Does the Susceptibility Evaluation Rely on Thread Friction? If Yes, was the COF Greater than 0.10? (No), (Yes, >0.10), (Yes, ≤0.10)	Was an Initial Stem-Rotation Check Performed? If Yes, include Rotation Criteria (No), (Yes, ≤10 deg.), (Yes, ≤5 deg.)	Was the Diagnostic Test Data Reviewed for Failure Precursors Described in TP16-1-112R4? (Yes/ No)	Valve Repair Status (Repaired or not Repaired)
NAPS	2	2-RH-MOV-2720B	Residual Heat Removal	Residual Heat Removal to “C” RCS Loop	10X8X10	Open	No	Medium	Not Susceptible ⁽²⁾	Yes	Yes, >0.10	Yes, ≤5 deg.	Yes	Not repaired
NAPS	2	2-SI-MOV-2890A	Safety Injection	Low Head Safety Injection Hot Leg Injection Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	Yes, ≤5 deg.	Yes	Repaired ⁽¹⁾
NAPS	2	2-SI-MOV-2890B	Safety Injection	Low Head Safety Injection Hot Leg Injection Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	Yes, ≤5 deg.	Yes	Not repaired
NAPS	2	2-SI-MOV-2890C	Safety Injection	Low Head Safety Injection Cold Leg Injection Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	Yes, ≤5 deg.	Yes	Not repaired
NAPS	2	2-SI-MOV-2890D	Safety Injection	Low Head Safety Injection Cold Leg Injection Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	Yes, ≤5 deg.	Yes	Not repaired

^(A) Applied Wedge Pin Torque must bound anticipated design basis operating torque requirements and current maximum total torque.

(1) The repair of this MOV included upgrading the pin material to Inconel 718 and torquing the stem/wedge connection to a satisfactory value to support an anticipated design basis operating torque.

(2) This valve was considered susceptible in the August 31, 2017 response letter. Re-evaluation to the BWROG guidance indicates this valve is not susceptible, but the commitment to repair is not being changed.

Attachment 3

ANCHOR DARLING DOUBLE DISC GATE VALVE
INFORMATION AND STATUS

**Virginia Electric and Power Company
(Dominion Energy Virginia)
Surry Power Station Units 1 and 2**

Surry Power Station Units 1 and 2 Active Safety Function Anchor Darling Double Disc Gate Valve Listing														
Plant Name	Unit	Valve ID	System	Valve Functional Description	Valve Size (inches)	Active Safety Function (Open, Close, Both)	Are Multiple Design Basis Post-Accident Strokes Required? (Yes/No)	Expert Panel Risk Ranking (High, Medium, Low)	Result of Susceptibility Evaluation (Susceptible or not Susceptible)	Is the Susceptibility Evaluation in General Conformance with TP16-1-112R4? ^(A) (Yes/No)	Does the Susceptibility Evaluation Rely on Thread Friction? If Yes, was the COF Greater than 0.10? (No), (Yes, >0.10), (Yes, ≤0.10)	Was an Initial Stem-Rotation Check Performed? If Yes, include Rotation Criteria (No), (Yes, ≤10 deg.), (Yes, ≤5 deg.)	Was the Diagnostic Test Data Reviewed for Failure Precursors Described in TP16-1-112R4? (Yes/ No)	Valve Repair Status (Repaired or not Repaired)
SPS	1	01-CH-MOV-1289A	Charging	Main Charging Header Isolation	3	Close	No	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	1	01-CH-MOV-1289B	Charging	Main Charging Header Isolation	3	Close	No	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	1	01-RH-MOV-1720A	Residual Heat Removal	Residual Heat Removal Outlet Isolation to Accumulator Discharge Line	10X8X10	Open	No	Medium	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	1	01-RH-MOV-1720B	Residual Heat Removal	Residual Heat Removal Outlet Isolation to Accumulator Discharge Line	10X8X10	Open	No	Medium	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	1	01-SI-MOV-1864A	Safety Injection	Low Head Safety Injection Pump Cold Leg Discharge Stop Valve	10	Both	Yes	Low	Not Susceptible	Yes	No	No	Yes	Not repaired
SPS	1	01-SI-MOV-1864B	Safety Injection	Low Head Safety Injection Pump Cold Leg Discharge Stop Valve	10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired

Surry Power Station Units 1 and 2 Active Safety Function Anchor Darling Double Disc Gate Valve Listing														
Plant Name	Unit	Valve ID	System	Valve Functional Description	Valve Size (inches)	Active Safety Function (Open, Close, Both)	Are Multiple Design Basis Post-Accident Strokes Required? (Yes/No)	Expert Panel Risk Ranking (High, Medium, Low)	Result of Susceptibility Evaluation (Susceptible or not Susceptible)	Is the Susceptibility Evaluation in General Conformance with TP16-1-112R4? ^(A) (Yes/No)	Does the Susceptibility Evaluation Rely on Thread Friction? If Yes, was the COF Greater than 0.10? (No), (Yes, >0.10), (Yes, ≤0.10)	Was an Initial Stem-Rotation Check Performed? If Yes, include Rotation Criteria (No), (Yes, ≤10 deg.), (Yes, ≤5 deg.)	Was the Diagnostic Test Data Reviewed for Failure Precursors Described in TP16-1-112R4? (Yes/ No)	Valve Repair Status (Repaired or not Repaired)
SPS	1	01-SI-MOV-1867C	Safety Injection	High Head Safety Injection to Reactor Coolant System (RCS) Cold Legs	3	Both	Yes	High	Not Susceptible	Yes	No	No	Yes	Not repaired
SPS	1	01-SI-MOV-1867D	Safety Injection	High Head Safety Injection to RCS Cold Legs	3	Both	Yes	High	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	1	01-SI-MOV-1869A	Safety Injection	High Head Safety Injection from Charging Header to RCS Hot Legs	3	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	1	01-SI-MOV-1890A	Safety Injection	Low Head Safety Injection Pump Hot Leg Discharge Stop Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	1	01-SI-MOV-1890B	Safety Injection	Low Head Safety Injection Pump Hot Leg Discharge Stop Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	1	01-SI-MOV-1890C	Safety Injection	Low Head Safety Injection Pump Hot Leg Discharge Stop Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired

Surry Power Station Units 1 and 2 Active Safety Function Anchor Darling Double Disc Gate Valve Listing														
Plant Name	Unit	Valve ID	System	Valve Functional Description	Valve Size (inches)	Active Safety Function (Open, Close, Both)	Are Multiple Design Basis Post-Accident Strokes Required? (Yes/No)	Expert Panel Risk Ranking (High, Medium, Low)	Result of Susceptibility Evaluation (Susceptible or not Susceptible)	Is the Susceptibility Evaluation in General Conformance with TP16-1-112R4? ^(A) (Yes/No)	Does the Susceptibility Evaluation Rely on Thread Friction? If Yes, was the COF Greater than 0.10? (No), (Yes, >0.10), (Yes, ≤0.10)	Was an Initial Stem-Rotation Check Performed? If Yes, include Rotation Criteria (No), (Yes, ≤10 deg.), (Yes, ≤5 deg.)	Was the Diagnostic Test Data Reviewed for Failure Precursors Described in TP16-1-112R4? (Yes/ No)	Valve Repair Status (Repaired or not Repaired)
SPS	2	02-CH-MOV-2115B	Charging	Charging Pump Supply from RWST	8	Both	Yes	High	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-CH-MOV-2115D	Charging	Charging Pump Supply from RWST	8	Both	Yes	High	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-CH-MOV-2289A	Charging	Main Charging Header Isolation	3	Close	No	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-CH-MOV-2289B	Charging	Main Charging Header Isolation	3	Close	No	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-RH-MOV-2720A	Residual Heat Removal	Residual Heat Removal Outlet Isolation to Accumulator Discharge Line	10X8X10	Open	No	Medium	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-RH-MOV-2720B	Residual Heat Removal	Residual Heat Removal Outlet Isolation to Accumulator Discharge Line	10X8X10	Open	No	Medium	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired

Surry Power Station Units 1 and 2 Active Safety Function Anchor Darling Double Disc Gate Valve Listing														
Plant Name	Unit	Valve ID	System	Valve Functional Description	Valve Size (inches)	Active Safety Function (Open, Close, Both)	Are Multiple Design Basis Post-Accident Strokes Required? (Yes/No)	Expert Panel Risk Ranking (High, Medium, Low)	Result of Susceptibility Evaluation (Susceptible or not Susceptible)	Is the Susceptibility Evaluation in General Conformance with TP16-1-112R4? ^(A) (Yes/No)	Does the Susceptibility Evaluation Rely on Thread Friction? If Yes, was the COF Greater than 0.10? (No), (Yes, >0.10), (Yes, ≤0.10)	Was an Initial Stem-Rotation Check Performed? If Yes, include Rotation Criteria (No), (Yes, ≤10 deg.), (Yes, ≤5 deg.)	Was the Diagnostic Test Data Reviewed for Failure Precursors Described in TP16-1-112R4? (Yes/ No)	Valve Repair Status (Repaired or not Repaired)
SPS	2	02-SI-MOV-2842	Safety Injection	High Head Safety Injection from Charging Header to RCS Cold Legs	4	Both	Yes	High	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-SI-MOV-2864A	Safety Injection	Low Head Safety Injection Pump Cold Leg Discharge Stop Valve	10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-SI-MOV-2864B	Safety Injection	Low Head Safety Injection Pump Cold Leg Discharge Stop Valve	10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-SI-MOV-2867C	Safety Injection	High Head Safety Injection to RCS Cold Legs	3	Both	Yes	High	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-SI-MOV-2867D	Safety Injection	High Head Safety Injection to RCS Cold Legs	3	Both	Yes	High	Not Susceptible ⁽¹⁾	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-SI-MOV-2890A	Safety Injection	Low Head Safety Injection Pump Hot Leg Discharge Stop Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	No	No	Yes	Not repaired

Surry Power Station Units 1 and 2 Active Safety Function Anchor Darling Double Disc Gate Valve Listing														
Plant Name	Unit	Valve ID	System	Valve Functional Description	Valve Size (inches)	Active Safety Function (Open, Close, Both)	Are Multiple Design Basis Post-Accident Strokes Required? (Yes/No)	Expert Panel Risk Ranking (High, Medium, Low)	Result of Susceptibility Evaluation (Susceptible or not Susceptible)	Is the Susceptibility Evaluation in General Conformance with TP16-1-112R4? ^(A) (Yes/No)	Does the Susceptibility Evaluation Rely on Thread Friction? If Yes, was the COF Greater than 0.10? (No), (Yes, >0.10), (Yes, ≤0.10)	Was an Initial Stem-Rotation Check Performed? If Yes, include Rotation Criteria (No), (Yes, ≤10 deg.), (Yes, ≤5 deg.)	Was the Diagnostic Test Data Reviewed for Failure Precursors Described in TP16-1-112R4? (Yes/ No)	Valve Repair Status (Repaired or not Repaired)
SPS	2	02-SI-MOV-2890B	Safety Injection	Low Head Safety Injection Pump Hot Leg Discharge Stop Valve	10X8X10	Both	Yes	Low	Not Susceptible	Yes	Yes, >0.10	No	Yes	Not repaired
SPS	2	02-SI-MOV-2890C	Safety Injection	Low Head Safety Injection Pump Cold Leg Discharge Stop Valve	10X8X10	Both	Yes	Low	Not Susceptible ⁽¹⁾	Yes	Yes, >0.10	No	Yes	Not repaired

^(A) Applied Wedge Pin Torque must bound anticipated design basis operating torque requirements and current maximum total torque.

⁽¹⁾ This valve was considered susceptible in the August 31, 2017 response letter. Re-evaluation to the BWROG guidance indicates this valve is not susceptible, but the commitment to repair is not being changed.