DEC 2 1 2017

L-2017-212

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Re: Florida Power & Light Company
St. Lucie Units 1 and 2, Docket Nos. 50-335, 50-389
Turkey Point Units 3 and 4, Docket Nos. 50-250, 50-251

NextEra Energy Seabrook, LLC
Seabrook Station, Docket No. 50-443

NextEra Energy Duane Arnold, LLC
Duane Arnold Energy Center, Docket No. 50-331

NextEra Energy Point Beach, LLC
Point Beach Units 1 and 2, Docket Nos. 50-266, 50-301

Subject: 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), August 4, 2017 (ML17220A363)
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), October 26, 2017 (ML17303A031)
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," August 2017

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 will 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. Reference 2 also stated that utilities or sites without active safety function Anchor Darling DDGVs would also provide a response. Florida Power & Light Company (FPL), acting on behalf of itself and as agent for NextEra Energy is providing this information for St. Lucie Units 1 and 2, Turkey Point Units 3 and 4, Seabrook Station, Duane Arnold Energy Center, and Point Beach Units 1 and 2.

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Seabrook Station does not have any active safety function motor-operated valves with double disc gate valves manufactured by Anchor Darling or Flowserve.

The attachments to this letter contain the following information for each ADDDGV at Duane Arnold Energy Center, Point Beach, St. Lucie, and Turkey Point:

- Plant Name, Unit, and Valve ID.
- System.
- Valve Functional Description.
- Valve Size.
- 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 coefficient of friction (COF) greater than 0.10? For cases where thread-friction was relied upon, information is provided whether the COF was above or below 0.1.
- Was an initial stem-rotation check performed? If yes, include rotation criteria (i.e. $\leq$10 degrees or $\leq$5 degrees).
- Was the diagnostic test data reviewed for failure precursors described in TP16-1-112R4 (Reference 3)?
- The valve's repair status (i.e. repaired or not repaired).
- A repair schedule for each susceptible valve.

This submittal makes commitments for repair of ADDDGVs for Duane Arnold Energy Center as provided in Attachment 2.

If you have any questions regarding this submittal, please contact Rudy Gil, Fleet Programs Engineering Manager, at 561-904-5153.

Sincerely,

FOR LARRY NICHOLSON

Larry Nicholson
Director, Nuclear Licensing and Regulatory Compliance
Florida Power & Light Company

Attachments

cc: NRC Project Manager - St. Lucie
NRC Project Manager - Turkey Point
NRC Project Manager - Seabrook
NRC Project Manager - Duane Arnold
NRC Project Manager - Point Beach
Regional Administrator - NRC Region 1
Regional Administrator - NRC Region 2
Regional Administrator - NRC Region 3
NRC Resident Inspector - St. Lucie
NRC Resident Inspector - Turkey Point
NRC Resident Inspector - Seabrook
NRC Resident Inspector - Duane Arnold
NRC Resident Inspector - Point Beach

ATTACHMENT 1 to L-2017-212

Anchor Darling Double Disc Gate Valve Listing

Attachment 1
Anchor Darling Double Disc Gate Valve Listing
(Page 1 of 3)

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)
Duane Arnold	1	MO4627	RX RECIRC	REACTOR RECIRC PUMP 1P-201A DISCHARGE ISOLATION	22	Close	No	Low	Suceptible	Yes	Yes, > 0.10	Yes, ≤ 10 deg	Yes	not repaired [1]
Duane Arnold	1	MO4628	RX RECIRC	REACTOR RECIRC PUMP 1P-201B DISCHARGE ISOLATION	22	Close	No	Low	Suceptible	Yes	Yes, > 0.10	Yes, ≤ 10 deg	Yes	not repaired [1]
Point Beach	1	CC-00719	COMPONENT COOLING	CONTAINMENT COOLING WATER CONT RETURN ISOLATION VALVE	6	Close	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	CC-00719	COMPONENT COOLING	CONTAINMENT COOLING WATER CONT RETURN ISOLATION VALVE	6	Close	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	RH-00700	RESIDUAL HEAT REMOVAL	RCS LOW HEAD SI PUMP SUCTION FROM RCS ISOLATION VALVE	10	Close	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Point Beach	2	RH-00700	RESIDUAL HEAT REMOVAL	RCS LOW HEAD SI PUMP SUCTION FROM RCS ISOLATION VALVE	10	Close	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Point Beach	1	SI-00841A	SAFETY INJECTION	SI ACCUMULATOR TO RCS SUCTION ISOLATION VALVE	10	None[2]	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Point Beach	1	SI-00841B	SAFETY INJECTION	SI ACCUMULATOR TO RCS SUCTION ISOLATION VALVE	10	None[2]	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Point Beach	2	SI-00841A	SAFETY INJECTION	SI ACCUMULATOR TO RCS SUCTION ISOLATION VALVE	10	None[2]	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Point Beach	2	SI-00841B	SAFETY INJECTION	SI ACCUMULATOR TO RCS SUCTION ISOLATION VALVE	10	None[2]	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Point Beach	1	SI-00852A	SAFETY INJECTION	SI CORE DELUGE ISOLATION VALVE	6	Both[3]	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00852B	SAFETY INJECTION	SI CORE DELUGE ISOLATION VALVE	6	Both[3]	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00852A	SAFETY INJECTION	SI CORE DELUGE ISOLATION VALVE	6	Both[3]	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00852B	SAFETY INJECTION	SI CORE DELUGE ISOLATION VALVE	6	Both[3]	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00851A	SAFETY INJECTION	SUMP A TO LOW HEAD SI PUMP SUCTION ISOLATION VALVE	10	Both	No [4]	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00851B	SAFETY INJECTION	SUMP B TO LOW HEAD SI PUMP SUCTION ISOLATION VALVE	10	Both	No [4]	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00851A	SAFETY INJECTION	SUMP A TO LOW HEAD SI PUMP SUCTION ISOLATION VALVE	10	Both	No [4]	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00851B	SAFETY INJECTION	SUMP B TO LOW HEAD SI PUMP SUCTION ISOLATION VALVE	10	Both	No [4]	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00856A	SAFETY INJECTION	RWST TO LOW HEAD SI PUMP SUCTION ISOLATION VALVE	10	Close	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00856B	SAFETY INJECTION	RWST TO LOW HEAD SI PUMP SUCTION ISOLATION VALVE	10	Close	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00856A	SAFETY INJECTION	RWST TO LOW HEAD SI PUMP SUCTION ISOLATION VALVE	10	Close	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00856B	SAFETY INJECTION	RWST TO LOW HEAD SI PUMP SUCTION ISOLATION VALVE	10	Close	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00860A	SAFETY INJECTION	CONTAINMENT SPRAY PUMP DISCHARGE TO CONTAINMENT ISOLATION VALVE	6	Both	No [4]	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00860B	SAFETY INJECTION	CONTAINMENT SPRAY PUMP DISCHARGE TO CONTAINMENT ISOLATION VALVE	6	Open	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00860C	SAFETY INJECTION	CONTAINMENT SPRAY PUMP DISCHARGE TO CONTAINMENT ISOLATION VALVE	6	Both	No [4]	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00860D	SAFETY INJECTION	CONTAINMENT SPRAY PUMP DISCHARGE TO CONTAINMENT ISOLATION VALVE	6	Open	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00860A	SAFETY INJECTION	CONTAINMENT SPRAY PUMP DISCHARGE TO CONTAINMENT ISOLATION VALVE	6	Both	No [4]	Low	Not Suceptible	Yes	No	No	Yes	not repaired

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)
Point Beach	2	SI-00860B	SAFETY INJECTION	CONTAINMENT SPRAY PUMP DISCHARGE TO CONTAINMENT ISOLATION VALVE	6	Open	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00860C	SAFETY INJECTION	CONTAINMENT SPRAY PUMP DISCHARGE TO CONTAINMENT ISOLATION VALVE	6	Both	No [4]	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00860D	SAFETY INJECTION	CONTAINMENT SPRAY PUMP DISCHARGE TO CONTAINMENT ISOLATION VALVE	6	Open	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00866A	SAFETY INJECTION	HIGH HEAD SI PUMP TO CONTAINMENT ISOLATION VALVE	4	Both	Yes	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00866B	SAFETY INJECTION	HIGH HEAD SI PUMP TO CONTAINMENT ISOLATION VALVE	4	Both	Yes	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00866A	SAFETY INJECTION	HIGH HEAD SI PUMP TO CONTAINMENT ISOLATION VALVE	4	Both	Yes	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	2	SI-00866B	SAFETY INJECTION	HIGH HEAD SI PUMP TO CONTAINMENT ISOLATION VALVE	4	Both	Yes	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00871A	SAFETY INJECTION	LOW HEAD SI TO CONTAINMENT SPRAY PUMP SUCTION ISOLATION VALVE	6	Both	Yes	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Point Beach	1	SI-00871B	SAFETY INJECTION	LOW HEAD SI TO CONTAINMENT SPRAY PUMP SUCTION ISOLATION VALVE	6	Both	Yes	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Point Beach	2	SI-00871A	SAFETY INJECTION	LOW HEAD SI TO CONTAINMENT SPRAY PUMP SUCTION ISOLATION VALVE	6	Both	Yes	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Point Beach	2	SI-00871B	SAFETY INJECTION	LOW HEAD SI TO CONTAINMENT SPRAY PUMP SUCTION ISOLATION VALVE	6	Both	Yes	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
St. Lucie	2	2-MV-08-12	AUX FEEDWATER	STEAM GEN 2A MAIN STEAM TO AFW PUMP 2C FLOW ISOLATION VALVE	4	Both	Yes	High	Not Suceptible	Yes	No	No	Yes	not repaired
St. Lucie	2	2-MV-08-13	AUX FEEDWATER	STEAM GEN 2B MAIN STEAM TO AFW PUMP 2C FLOW ISOLATION VALVE	4	Both	Yes	High	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	3	MOV-3-869	SAFETY INJECTION	SI TO LOOP A&B HOT LEG MTR OP ISO VLV	3	Both	Yes	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	4	MOV-4-869	SAFETY INJECTION	SI TO LOOP A&B HOT LEG MTR OP ISO VLV	3	Both	Yes	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	0	MOV-878A	SAFETY INJECTION	HHSI HEADER SECTIONALIZING MOTOR OPERATED VLV	4	Close	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	0	MOV-878B	SAFETY INJECTION	HHSI HEADER SECTIONALIZING MOTOR OPERATED VLV	4	Close	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	3	MOV-3-843A	SAFETY INJECTION	HHSI TO COLD LEG MOV	4	Both	Yes	High	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	3	MOV-3-843B	SAFETY INJECTION	HHSI TO COLD LEG MOV	4	Both	Yes	High	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	4	MOV-4-843A	SAFETY INJECTION	HHSI TO COLD LEG MOV	4	Both	Yes	High	Not Suceptible	Yes	Yes, ≤0.10	Yes[5]	Yes	not repaired
Turkey Point	4	MOV-4-843B	SAFETY INJECTION	HHSI TO COLD LEG MOV	4	Both	Yes	High	Not Suceptible	Yes	Yes, ≤0.10	Yes[5]	Yes	not repaired
Turkey Point	3	MOV-3-716B	COMPONENT COOLING	MOTOR OPERATED ISO VLV FOR CCW SUPPLY TO RCP COOLERS	6	Close	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	4	MOV-4-716B	COMPONENT COOLING	MOTOR OPERATED ISO VLV FOR CCW SUPPLY TO RCP COOLERS	6	Close	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	3	MOV-3-730	COMPONENT COOLING	MOTOR OPERATED ISO VLV FOR CCW RTN TO RCP COOLERS	6	Close	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	4	MOV-4-730	COMPONENT COOLING	MOTOR OPERATED ISO VLV FOR CCW RTN TO RCP COOLERS	6	Close	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	3	MOV-3-880A	CONTAINMENT SPRAY	CTMT SPRAY PMP DISCH ISO VLV	6	Open	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	3	MOV-3-880B	CONTAINMENT SPRAY	CTMT SPRAY PMP DISCH ISO VLV	6	Open	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired

Attachment 1
Anchor Darling Double Disc Gate Valve Listing
(Page 3 of 3)

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)
Turkey Point	4	MOV-4-880A	CONTAINMENT SPRAY	CTMT SPRAY PMP DISCH ISO VLV	6	Open	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	Yes[5]	Yes	not repaired
Turkey Point	4	MOV-4-880B	CONTAINMENT SPRAY	CTMT SPRAY PMP DISCH ISO VLV	6	Open	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	3	MOV-3-865A	SAFETY INJECTION	SI ACCUM A DISCH MOTOR OPERATED VLV	10	None[2]	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	3	MOV-3-865B	SAFETY INJECTION	SI ACCUM B DISCH MOTOR OPERATED VLV	10	None[2]	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	3	MOV-3-865C	SAFETY INJECTION	SI ACCUM C DISCH MOTOR OPERATED VLV	10	None[2]	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	4	MOV-4-865A	SAFETY INJECTION	SI ACCUM A DISCH MOTOR OPERATED VLV	10	None[2]	No	Low	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	4	MOV-4-865B	SAFETY INJECTION	SI ACCUM B DISCH MOTOR OPERATED VLV	10	None[2]	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	4	MOV-4-865C	SAFETY INJECTION	SI ACCUM C DISCH MOTOR OPERATED VLV	10	None[2]	No	Low	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	3	MOV-3-860A	RESIDUAL HEAT REMOVAL	RECIRC SUMP TO RHR PUMP SUCTION MOTOR OPERATED VLV	14	Open	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	3	MOV-3-860B	RESIDUAL HEAT REMOVAL	RECIRC SUMP TO RHR PUMP SUCTION MOTOR OPERATED VLV	14	Open	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	4	MOV-4-860A	RESIDUAL HEAT REMOVAL	RECIRC SUMP TO RHR PUMP SUCTION MOTOR OPERATED VLV	14	Open	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	4	MOV-4-860B	RESIDUAL HEAT REMOVAL	RECIRC SUMP TO RHR PUMP SUCTION MOTOR OPERATED VLV	14	Open	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	3	MOV-3-861A	RESIDUAL HEAT REMOVAL	RECIRC SUMP TO RHR PUMP SUCTION MOTOR OPERATED VLV	14	Open	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	3	MOV-3-861B	RESIDUAL HEAT REMOVAL	RECIRC SUMP TO RHR PUMP SUCTION MOTOR OPERATED VLV	14	Open	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	4	MOV-4-861A	RESIDUAL HEAT REMOVAL	RECIRC SUMP TO RHR PUMP SUCTION MOTOR OPERATED VLV	14	Open	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	4	MOV-4-861B	RESIDUAL HEAT REMOVAL	RECIRC SUMP TO RHR PUMP SUCTION MOTOR OPERATED VLV	14	Open	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	3	MOV-3-862A	RESIDUAL HEAT REMOVAL	MOTOR OPERATED STOP VLV ON RHR PUMPS SUCTION HDR	14	Close	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	3	MOV-3-862B	RESIDUAL HEAT REMOVAL	MOTOR OPERATED STOP VLV ON RHR PUMPS SUCTION HDR	14	Close	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	4	MOV-4-862A	RESIDUAL HEAT REMOVAL	MOTOR OPERATED STOP VLV ON RHR PUMPS SUCTION HDR	14	Close	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	4	MOV-4-862B	RESIDUAL HEAT REMOVAL	MOTOR OPERATED STOP VLV ON RHR PUMPS SUCTION HDR	14	Close	No	Medium	Not Suceptible	Yes	Yes, ≤0.10	No	Yes	not repaired
Turkey Point	3	MOV-3-864A	SAFETY INJECTION	RWST MTR OP ISO VLV TO SI & RHR PUMPS	16	Close	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	3	MOV-3-864B	SAFETY INJECTION	RWST MTR OP ISO VLV TO SI & RHR PUMPS	16	Close	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	4	MOV-4-864A	SAFETY INJECTION	RWST MTR OP ISO VLV TO SI & RHR PUMPS	16	Close	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired
Turkey Point	4	MOV-4-864B	SAFETY INJECTION	RWST MTR OP ISO VLV TO SI & RHR PUMPS	16	Close	No	Medium	Not Suceptible	Yes	No	No	Yes	not repaired

[A] Applied Wedge Pin Torque must bound anticipated design basis operating torque requirements and current maximum total torque

[1] Low Risk MOV. Category C per NRC Letter dated July 31, 2017, Response from the Nuclear Regulatory Commision Regarding the Anchor Darling Double Disc Gate Valve Industry Resolution Plan.
[2] MOVs do not have an active safety function but are included in the GL 89-10/96-05 Program.
[3] Close direction safety function is to throttled/intermediate position.
[4] Only one Open and one Closed post-accident stroke required.
[5] Visual Stem Rotation Check performed in conjunction with diagnostic test. No significant rotation noted when changing direction from closed to open.

ATTACHMENT 2 to L-2017-212

Summary of Commitments

Attachment 2
Summary of Commitments
(Page 1 of 1)

The following table identifies commitments made in this document. (Any other actions discussed in the submittal represent intended or planned actions. They are described to the NRC for the NRC's information and are not regulatory commitments.)

COMMITMENT	COMMITTED DATE OR "OUTAGE"	COMMITMENT TYPE	
		ONE-TIME ACTION (Yes/No)	Continuous/Cyclical (Yes/No)
Repair the following Group C AD DDGV MOVs:			
MOV Number	Outage(Year)		
Duane Arnold MO4627	RFO27(2020)	Yes	No
Duane Arnold MO4628	RFO28(2022)	Yes	No
Perform diagnostic testing and stem rotation checks with contingent repairs on the following AD DDGV MOVs:			
MOV Number	Outage(Year)		
Duane Arnold MO4627	RFO26 (2018)	Yes	No
Duane Arnold MO4628	RFO26 (2018), RFO27 (2020)	Yes	No