



DEC 21 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.

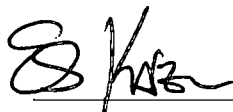
The attachments to this letter contain the following information for each ADDDGV at Duane Arnold Energy Center, Point Beach, St. Lucie, and Turkey Point:

- 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? <sup>(A)</sup> (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 <sup>(1)</sup>                    |
| 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 <sup>(1)</sup>                    |
| 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 <sup>(2)</sup>                        | 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 <sup>(2)</sup>                        | 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 <sup>(2)</sup>                        | 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 <sup>(2)</sup>                        | 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 <sup>(3)</sup>                        | No   | Low   | Not Suceptible   | Yes  | No  | No  | Yes  | not repaired                                   |
| Point Beach  | 1    | SI-00852B | SAFETY INJECTION      | SI CORE DELUGE ISOLATION VALVE                                  | 6                   | Both <sup>(3)</sup>                        | No   | Low   | Not Suceptible   | Yes  | No  | No  | Yes  | not repaired                                   |
| Point Beach  | 2    | SI-00852A | SAFETY INJECTION      | SI CORE DELUGE ISOLATION VALVE                                  | 6                   | Both <sup>(3)</sup>                        | No   | Low   | Not Suceptible   | Yes  | No  | No  | Yes  | not repaired                                   |
| Point Beach  | 2    | SI-00852B | SAFETY INJECTION      | SI CORE DELUGE ISOLATION VALVE                                  | 6                   | Both <sup>(3)</sup>                        | 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 <sup>(4)</sup>  | 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 <sup>(4)</sup>  | 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 <sup>(4)</sup>  | 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 <sup>(4)</sup>  | 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 <sup>(4)</sup>  | 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 <sup>(4)</sup>  | 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 <sup>(4)</sup>  | Low   | Not Suceptible   | Yes  | No  | No  | Yes  | not repaired                                   |

Attachment 1  
Anchor Darling Double Disc Gate Valve Listing  
(Page 2 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? <sup>(A)</sup> (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 <sup>(4)</sup>  | 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 <sup>(5)</sup>  | 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 <sup>(5)</sup>  | 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? <sup>(A)</sup> (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 <sup>(5)</sup>  | 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 <sup>(2)</sup>                        | 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 <sup>(2)</sup>                        | 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 <sup>(2)</sup>                        | 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 <sup>(2)</sup>                        | 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 <sup>(2)</sup>                        | 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 <sup>(2)</sup>                        | 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                                   |

<sup>(A)</sup> Applied Wedge Pin Torque must bound anticipated design basis operating torque requirements and current maximum total torque

<sup>(1)</sup> Low Risk MOV. Category C per NRC Letter dated July 31, 2017, Response from the Nuclear Regulatory Commission Regarding the Anchor Darling Double Disc Gate Valve Industry Resolution Plan.

<sup>(2)</sup> MOVs do not have an active safety function but are included in the GL 89-10/96-05 Program.

<sup>(3)</sup> Close direction safety function is to throttled/intermediate position.

<sup>(4)</sup> Only one Open and one Closed post-accident stroke required.

<sup>(5)</sup> 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:<br><br><u>MOV Number</u><br>Duane Arnold MO4627<br>Duane Arnold MO4628<br><br>Perform diagnostic testing and stem rotation checks with contingent repairs on the following AD DDGV MOVs:<br><u>MOV Number</u><br>Duane Arnold MO4627<br>Duane Arnold MO4628 | <u>Outage(Year)</u><br>RFO27(2020)<br>RFO28(2022)<br><br><u>Outage(Year)</u><br>RFO26 (2018)<br>RFO26 (2018), RFO27 (2020) | Yes<br>Yes<br><br>Yes<br>Yes | No<br>No<br><br>No<br>No     |