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Docket Number 50-346

License Number NPF-3

Serial Number 2733

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United States Nuclear Regulatory Commission  
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**Subject:** Supplemental Response to Request for Additional Information Concerning Risk-Informed Inservice Testing Program for Air Operated Valves (TAC Number MB0520)

Ladies and Gentlemen:

By letter Serial Number 2720, dated July 17, 2001, the FirstEnergy Nuclear Operating Company (FENOC) provided its response to the NRC staff's request for additional information (RAI) (Log Number 5809, dated June 4, 2001) concerning the Davis-Besse Nuclear Power Station (DBNPS) request for implementation of a Risk-Informed Inservice Testing (RI-IST) Program for air operated valves (AOVs) as submitted by Serial Number 2668, dated September 11, 2000. In response to RAI Item 15.j, a commitment was made to provide an electronic file of the listing of the Category 1, 2, and 3 AOVs and their characteristics by August 10, 2001. By telephone conversation and follow-up e-mail on August 9, 2001, the DBNPS notified the NRC Office of Nuclear Reactor Regulation (NRR) Project Manager that the electronic file submittal would be delayed until September 14, 2001. The enclosed data diskette provides the information in response to RAI Item 15.j. The information contained on the data diskette is also provided in hard copy as Attachment 1.

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Docket Number 50-346  
License Number NPF-3  
Serial Number 2733  
Page 2 of 2

If you have any additional questions or comments, please contact Mr. David H. Lockwood, Manager, Regulatory Affairs, at (419) 321-8450.

Very truly yours,

A handwritten signature in black ink, appearing to read "Guy S. Engel". The signature is written in a cursive style with a large initial "G" and "S".

RMC/s

Attachments

cc: J. E. Dyer, Regional Administrator, Region III  
S. P. Sands, NRC Project Manager  
K. S. Zellers, DB-1 Senior Resident Inspector  
Utility Radiological Safety Board

## DBNPS Category 1, 2, and 3 AOVs

| Equipment Group | AOV Category | Equipment Name  | Valve Manufacturer | Valve Type  | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type      | Design Temp (F) | dP open (pskD) | dP close (pskD) | Design Flow |
|-----------------|--------------|---|--------------------|-------------|-----------------|--------------------|-----------------------|--------------------|-----------------|----------------|-----------------|-------------|
| CC1412          | 3            | CCW Surge Tank 3 Way Vent Valve   | ITT Hammel Dahl    | 3 Way Globe | 3"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm | 200             | 105            | 105             | 600 SCFM    |
| CC1460          | 2            | CCW Nonessential Supply to Makeup Pump Lube Oil Coolers   | ITT Hammel Dahl    | Globe       | 1 1/2"          | 600                | ITT Hammel Dahl       | Spring & Diaphragm | 200             | 108            | 108             | 60 GPM      |
| CC1467          | 1            | Decay Heat Removal Heat Exchanger 1-1 CCW Discharge Line Isolation Valve                              | ITT Hammel Dahl    | Butterfly   | 18"             | 150                | ITT Hammel Dahl       | Piston             | 200             | 91             | 91              | 6000 GPM    |
| CC1469          | 1            | Decay Heat Removal Heat Exchanger 1-2 CCW Discharge Line Isolation Valve                              | ITT Hammel Dahl    | Butterfly   | 18"             | 150                | ITT Hammel Dahl       | Piston             | 200             | 91             | 91              | 6000 GPM    |
| CC1471          | 1            | Emergency Diesel Generator Jacket Cooling Water Heat Exchanger 1-1 CCW Discharge Line Isolation Valve | ITT Hammel Dahl    | Butterfly   | 6"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm | 200             | 108            | 108             | 800 GPM     |
| CC1474          | 1            | Emergency Diesel Generator Jacket Cooling Water Heat Exchanger 1-2 CCW Discharge Line Isolation Valve | ITT Hammel Dahl    | Butterfly   | 6"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm | 200             | 108            | 108             | 800 GPM     |

| Equipment Group | AOV Category | Equipment Name   | Valve Manufacturer | Valve Type | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type      | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|--|--------------------|------------|-----------------|--------------------|-----------------------|--------------------|-----------------|----------------|-----------------|-------------|
| CC1495          | 2            | CCW to Nonessential Loads Isolation Valve  | ITT Hammel Dahl    | Butterfly  | 16"             | 150                | ITT Hammel Dahl       | Piston             | 200             | 108            | 108             | 4300 GPM    |
| CD420           | 2            | Deareator Heater 1-2-3 Level Control Valve   | ITT Hammel Dahl    | Globe      | 12"             | 300                | ITT Hammel Dahl       | Spring & Diaphragm | 240             | 320            | 320             | 7820 GPM    |
| CD421           | 2            | Deareator Heater 1-1-3 Level Control Valve   | ITT Hammel Dahl    | Globe      | 12"             | 300                | ITT Hammel Dahl       | Spring & Diaphragm | 240             | 320            | 320             | 7820 GPM    |
| CF1541          | 2            | Core Flood Tank 1-2 Pressurization Isolation Valve                                   | ITT Hammel Dahl    | Globe      | 1"              | 600                | ITT Hammel Dahl       | Spring & Diaphragm | 300             | 600            | 600             | 50 GPM      |
| CF1542          | 2            | Core Flood Tank 1-1 and 1-2 Vent Isolation to Waste Gas System                       | ITT Hammel Dahl    | Globe      | 1"              | 600                | ITT Hammel Dahl       | Spring & Diaphragm | 300             | 600            | 600             | 50 SCFM     |
| CF1544          | 2            | Core Flood Tank 1-1 Pressurization Isolation Valve                                   | ITT Hammel Dahl    | Globe      | 1"              | 600                | ITT Hammel Dahl       | Spring & Diaphragm | 300             | 600            | 600             | 50 GPM      |
| CF1545          | 2            | Core Flood Tank 1-1 and 1-2 Bleed and Sample Isolation to Reactor Coolant Drain Tank | ITT Hammel Dahl    | Globe      | 1"              | 600                | ITT Hammel Dahl       | Spring & Diaphragm | 300             | 610            | 610             | 25 GPM      |

| Equipment Group | AOV Category | Equipment Name   | Valve Manufacturer | Valve Type | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|--|--------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------|
| CT2955          | 1            | Circulating Water Supply to TPCW Heat Exchanger Isolation Valve (Backup Service Water) | Neles-Jamesbury    | Butterfly  | 20"             | 150                | Neles-Jamesbury       | Spring Return Piston | 100             | 77             | 77              | 5000 GPM    |
| CV5004          | 3            | Mechanical Penetration Room/Shield Building Annulus Supply Purge Valve                 | Fisher Controls    | Butterfly  | 42"             | 150                | Bettis                | Spring Return Piston | 110             | 1/2" w.g.      | 8" w.g.         | 50,000 SCFM |
| CV5005          | 2            | Containment Supply Purge Valve   | Henry Pratt        | Butterfly  | 48"             | 60                 | Bettis                | Spring Return Piston | 120             | 38             | 38              | 50,000 SCFM |
| CV5006          | 2            | Containment Supply Purge Valve   | Henry Pratt        | Butterfly  | 48"             | 60                 | Bettis                | Spring Return Piston | 120             | 38             | 38              | 50,000 SCFM |
| CV5007          | 2            | Containment Exhaust Purge Valve  | Henry Pratt        | Butterfly  | 48"             | 60                 | Bettis                | Spring Return Piston | 120             | 38             | 38              | 50,000 SCFM |
| CV5008          | 2            | Containment Exhaust Purge Valve  | Henry Pratt        | Butterfly  | 48"             | 60                 | Bettis                | Spring Return Piston | 120             | 38             | 38              | 50,000 SCFM |
| CV5009          | 3            | Mechanical Penetration Room/Shield Building Annulus Exhaust Purge Valve                | Fisher Controls    | Butterfly  | 42"             | 150                | Bettis                | Spring Return Piston | 110             | 1/2" w.g.      | 8" w.g.         | 50,000 SCFM |

| Equipment Group | AOV Category | Equipment Name  | Valve Manufacturer | Valve Type | Valve Size (In) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|---|--------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------|
| CV5016          | 3            | Mechanical Penetration Room/Shield Building Annulus Supply Purge Valve  | Fisher Controls    | Butterfly  | 42"             | 150                | Bettis                | Spring Return Piston | 110             | 1/2" w.g.      | 8" w.g.         | 50,000 SCFM |
| CV5021          | 3            | Mechanical Penetration Room/Shield Building Annulus Exhaust Purge Valve | Fisher Controls    | Butterfly  | 42"             | 150                | Bettis                | Spring Return Piston | 110             | 1/2" w.g.      | 8" w.g.         | 50,000 SCFM |
| CV5301A         | 3            | Control Room Normal Ventilation System Supply Isolation Damper          | Pacific Air        | Damper     | 46" X 12"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 3,850 CFM   |
| CV5301B         | 3            | Control Room Normal Ventilation System Supply Isolation Damper          | Pacific Air        | Damper     | 55" X 22"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 11,550 CFM  |
| CV5301C         | 3            | Control Room Normal Ventilation System Supply Isolation Damper          | Pacific Air        | Damper     | 36" X 16"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 4,650 CFM   |
| CV5301D         | 3            | Control Room Normal Ventilation System Supply Isolation Damper          | Pacific Air        | Damper     | 30" X 10"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 1,870 CFM   |
| CV5301E         | 3            | Control Room Normal Ventilation System Suction Isolation Damper         | Pacific Air        | Damper     | 60" X 30"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 19,700 CFM  |

| Equipment Group | AOV Category | Equipment Name  | Valve Manufacturer | Valve Type | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|---|--------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------|
| CV5301F         | 3            | Control Room Normal Ventilation System Exhaust Isolation Damper | Pacific Air        | Damper     | 10" X 3 1/4"    | N/A                | Contromatics          | Spring Return Piston | 120             | 3/4" w.g.      | 3/4" w.g.       | 150 CFM     |
| CV5301G         | 3            | Control Room Normal Ventilation System Exhaust Isolation Damper | Pacific Air        | Damper     | 10" X 3 1/4"    | N/A                | Contromatics          | Spring Return Piston | 120             | 3/4" w.g.      | 3/4" w.g.       | 150 CFM     |
| CV5301H         | 3            | Control Room Normal Ventilation System Exhaust Isolation Damper | Pacific Air        | Damper     | 10" X 6"        | N/A                | Contromatics          | Spring Return Piston | 120             | 1/4" w.g.      | 1/4" w.g.       | 200 CFM     |
| CV5311A         | 3            | Control Room Normal Ventilation System Supply Isolation Damper  | Pacific Air        | Damper     | 46" X 12"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 3,850 CFM   |
| CV5311B         | 3            | Control Room Normal Ventilation System Supply Isolation Damper  | Pacific Air        | Damper     | 55" X 12"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 11,550 CFM  |
| CV5311C         | 3            | Control Room Normal Ventilation System Supply Isolation Damper  | Pacific Air        | Damper     | 36" X 16"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 4,650 CFM   |
| CV5311D         | 3            | Control Room Normal Ventilation System Supply Isolation Damper  | Pacific Air        | Damper     | 30" X 10"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 1,870 CFM   |

| Equipment Group | ADV Category | Equipment Name  | Valve Manufacturer | Valve Type | Valve Size (In) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|---|--------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------|
| CV5311E         | 3            | Control Room Normal Ventilation System Suction Isolation Damper | Pacific Air        | Damper     | 60" X 30"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 19,700 CFM  |
| CV5311F         | 3            | Control Room Normal Ventilation System Exhaust Isolation Damper | Pacific Air        | Damper     | 10" X 3 1/4"    | N/A                | Contromatics          | Spring Return Piston | 120             | 3/4" w.g.      | 3/4" w.g.       | 150 CFM     |
| CV5311G         | 3            | Control Room Normal Ventilation System Exhaust Isolation Damper | Pacific Air        | Damper     | 10" X 3 1/4"    | N/A                | Contromatics          | Spring Return Piston | 120             | 3/4" w.g.      | 3/4" w.g.       | 150 CFM     |
| CV5311H         | 3            | Control Room Normal Ventilation System Exhaust Isolation Damper | Pacific Air        | Damper     | 10" X 6"        | N/A                | Contromatics          | Spring Return Piston | 120             | 1/4" w.g.      | 1/4" w.g.       | 200 CFM     |
| CV5361A         | 3            | Control Room Normal Ventilation System Supply Isolation Damper  | Pacific Air        | Damper     | 26" X 14"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 2,640 CFM   |
| CV5361B         | 3            | Control Room Normal Ventilation System Supply Isolation Damper  | Pacific Air        | Damper     | 36" X 18"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 2,640 CFM   |
| CV5362A         | 3            | Control Room Normal Ventilation System Exhaust Isolation Damper | Pacific Air        | Damper     | 26" X 14"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 2,640 CFM   |



| Equipment Group | AOV Category | Equipment Name  | Valve Manufacturer | Valve Type | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|---|--------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------|
| CV5362B         | 3            | Control Room Normal Ventilation System Exhaust Isolation Damper | Pacific Air        | Damper     | 36" X 18"       | N/A                | Contromatics          | Spring Return Piston | 120             | 1" w.g.        | 1" w.g.         | 2,640 CFM   |
| CW620           | 2            | High Level Cooling Water Tank Level Control Valve               | Fisher Controls    | Butterfly  | 12"             | 150                | Fisher Controls       | Piston               | 95              | 74             | 74              | 8000 GPM    |
| DH13A           | 1            | Decay Heat Cooler 1-2 Bypass Flow Control Valve                 | Valtek             | Butterfly  | 6"              | 300                | Valtek                | Spring Return Piston | 280             | 373            | 373             | 3000 GPM    |
| DH13B           | 1            | Decay Heat Cooler 1-1 Bypass Flow Control Valve                 | Valtek             | Butterfly  | 6"              | 300                | Valtek                | Spring Return Piston | 280             | 373            | 373             | 3000 GPM    |
| DH14A           | 1            | Decay Heat Cooler 1-2 Outlet Flow Control Valve                 | Valtek             | Butterfly  | 10"             | 300                | Valtek                | Spring Return Piston | 280             | 374            | 374             | 3000 GPM    |
| DH14B           | 1            | Decay Heat Cooler 1-1 Outlet Flow Control Valve                 | Valtek             | Butterfly  | 10"             | 300                | Valtek                | Spring Return Piston | 280             | 374            | 374             | 3000 GPM    |
| DW2643          | 3            | Component Cooling Water Surge Tank Demin Water Makeup Valve     | ITT Hammel Dahl    | Globe      | 1"              | 600                | ITT Hammel Dahl       | Spring & Diaphragm   | 200             | 150            | 150             | 25 GPM      |

| Equipment Group | AOV Category | Equipment Name  | Valve Manufacturer | Valve Type | Valve Size (In) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|---|--------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------|
| DW6831A         | 2            | Demin Water Service Inside Containment Isolation Valve  | ITT Hammel Dahl    | Globe      | 4"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm   | 150             | 105            | 105             | 200 GPM     |
| DW6831B         | 2            | Demin Water Service Outside Containment Isolation Valve | ITT Hammel Dahl    | Globe      | 4"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm   | 150             | 105            | 105             | 200 GPM     |
| DW6880          | 2            | Demin Water Transfer Pumps Pressure Control Valve       | ITT Hammel Dahl    | Gate       | 4"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm   | 150             | 105            | 105             | 200 GPM     |
| HA5715A         | 3            | Aux Building/ECCS Room Damper Isolation                 | Pacific Air        | Damper     | 30" X 11"       | N/A                | Contromatics          | Spring Return Piston | 120             | 5" w.g.        | 5" w.g.         | 2,350 CFM   |
| HA5715B         | 3            | Aux Building/ECCS Room Damper Isolation                 | Pacific Air        | Damper     | 50" X 48"       | N/A                | Contromatics          | Spring Return Piston | 120             | 5" w.g.        | 5" w.g.         | 9,185 CFM   |
| HA5716A         | 3            | Aux Building/ECCS Room Damper Isolation                 | Pacific Air        | Damper     | 40" X 20"       | N/A                | Contromatics          | Spring Return Piston | 120             | 5" w.g.        | 5" w.g.         | 3,785 CFM   |
| HA5716B         | 3            | Aux Building/ECCS Room Damper Isolation                 | Pacific Air        | Damper     | 25" X 20"       | N/A                | Contromatics          | Spring Return Piston | 120             | 5" w.g.        | 5" w.g.         | 3,050 CFM   |

| Equipment Group | ADV Category | Equipment Name  | Valve Manufacturer     | Valve Type | Valve Size (In) | Valve Rating (lbs) | Actuator Manufacturer  | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow     |
|-----------------|--------------|---|------------------------|------------|-----------------|--------------------|------------------------|----------------------|-----------------|----------------|-----------------|-----------------|
| HP1556          | 3            | High Pressure Injection Test Return Valve to the Borated Water Storage Tank | ITT Hammel Dahl        | Globe      | 3"              | 1500               | ITT Hammel Dahl        | Spring & Diaphragm   | 300             | 2700           | 2700            | 250 GPM         |
| IA2011          | 2            | Instrument Air to Containment Outside Isolation Valve                       | ITT Hammel Dahl        | Globe      | 1"              | 600                | ITT Hammel Dahl        | Spring & Diaphragm   | 150             | 125            | 125             | 100 SCFM        |
| ICS11A          | 2            | Main Steam Line 2 Atmospheric Vent Valve                                    | Control Components     | Angle Drag | 8"              | 900                | Control Components     | Spring Return Piston | 600             | 1170           | 1170            | 550,000 lb/hr   |
| ICS11B          | 2            | Main Steam Line 1 Atmospheric Vent Valve                                    | Control Components     | Angle Drag | 8"              | 900                | Control Components     | Spring Return Piston | 600             | 1170           | 1170            | 550,000 lb/hr   |
| MS100           | 1            | Main Steam Line 2 Isolation Valve   | Rockwell International | Y-Globe    | 36"             | 600                | Rockwell International | Spring Return Piston | 600             | 1216           | 1216            | 5,880,000 lb/hr |
| MS100-1         | 2            | Main Steam Line 2 Isolation Valve Bypass                                    | Rockwell International | Globe      | 2"              | 1500               | Fisher Controls        | Spring & Diaphragm   | 600             | 1216           | 1216            | 5,880,000 lb/hr |
| MS101           | 1            | Main Steam Line 1 Isolation Valve   | Rockwell International | Y-Globe    | 36"             | 600                | Rockwell International | Spring Return Piston | 600             | 1216           | 1216            | 5,880,000 lb/hr |

| Equipment Group | ADV Category | Equipment Name                                 | Valve Manufacturer     | Valve Type | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow     |
|-----------------|--------------|--|------------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-----------------|
| MS101-1         | 2            | Main Steam Line 1 Isolation Valve Bypass       | Rockwell International | Globe      | 2"              | 1500               | Fisher Controls       | Spring & Diaphragm   | 600             | 1216           | 1216            | 5,880,000 lb/hr |
| MS375           | 2            | Main Steam Line 2 Warmup Drain Isolation Valve | ITT Hammel Dahl        | Globe      | 1 1/2"          | 600                | ITT Hammel Dahl       | Spring & Diaphragm   | 600             | 0.1            | 1169            | 1.4 GPM         |
| MS394           | 2            | Main Steam Line 1 Warmup Drain Isolation Valve | ITT Hammel Dahl        | Globe      | 1 1/2"          | 600                | ITT Hammel Dahl       | Spring & Diaphragm   | 600             | 0.1            | 1169            | 1.4 GPM         |
| MS5889A         | 1            | Auxiliary Feed Pump 1-1 Steam Admission Valve  | Valtek                 | Globe      | 4"              | 1500               | Valtek                | Spring Return Piston | 600             | 1216           | 1216            | 31,500 lb/hr    |
| MS5889B         | 1            | Auxiliary Feed Pump 1-2 Steam Admission Valve  | Valtek                 | Globe      | 4"              | 1500               | Valtek                | Spring Return Piston | 600             | 1216           | 1216            | 31,500 lb/hr    |
| MU23            | 3            | Boris Acid Pumps Discharge Control Valve       | Copes-Vulcan           | Globe      | 2"              | 150                | Copes-Vulcan          | Spring & Diaphragm   | 200             | 100            | 100             | 50 GPM          |
| MU3             | 2            | Reactor Coolant Letdown Outlet Isolation Valve | Velan                  | Gate       | 2 1/2"          | 1500               | Keiley & Mueller      | Double Acting Piston | 300             | 2500           | 2500            | 1792 GPM        |

| Equipment Group | AOV Category | Equipment Name  | Valve Manufacturer  | Valve Type | Valve Size (In) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|---|---------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------|
| MU38            | 2            | Reactor Coolant Pump Seal Return Isolation Valve        | Velan               | Globe      | 1"              | 1500               | Keiley & Mueller      | Double Acting Piston | 300             | 2500           | 2500            | 6 GPM       |
| MU6406          | 2            | Makeup Pump 1-2 Recirculation Valve                     | BW/IP International | Ball       | 1"              | 1500               | Bettis                | Spring Return Piston | 200             | 3050           | 3050            | 35 GPM      |
| MU6407          | 2            | Makeup Pump 1-1 Recirculation Valve                     | BW/IP International | Ball       | 1"              | 1500               | Bettis                | Spring Return Piston | 200             | 3050           | 3050            | 35 GPM      |
| MU66A           | 2            | Reactor Coolant Pump 2-1 Seal Injection Isolation Valve | Velan               | Globe      | 1 1/2"          | 1500               | Keiley & Mueller      | Double Acting Piston | 200             | 3050           | 3050            | 12.5 GPM    |
| MU66B           | 2            | Reactor Coolant Pump 2-2 Seal Injection Isolation Valve | Velan               | Globe      | 1 1/2"          | 1500               | Keiley & Mueller      | Double Acting Piston | 200             | 3050           | 3050            | 12.5 GPM    |
| MU66C           | 2            | Reactor Coolant Pump 1-1 Seal Injection Isolation Valve | Velan               | Globe      | 1 1/2"          | 1500               | Keiley & Mueller      | Double Acting Piston | 200             | 3050           | 3050            | 12.5 GPM    |
| MU66D           | 2            | Reactor Coolant Pump 1-2 Seal Injection Isolation Valve | Velan               | Globe      | 1 1/2"          | 1500               | Keiley & Mueller      | Double Acting Piston | 200             | 3050           | 3050            | 12.5 GPM    |

| Equipment Group | AOV Category | Equipment Name  | Valve Manufacturer | Valve Type | Valve Size (In) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type      | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|---|--------------------|------------|-----------------|--------------------|-----------------------|--------------------|-----------------|----------------|-----------------|-------------|
| NN236           | 2            | Nitrogen Supply to Containment Header Isolation Valve                               | ITT Hammel Dahl    | Globe      | 1"              | 600                | ITT Hammel Dahl       | Spring & Diaphragm | 100             | 120            | 120             | 100 SCFM    |
| RC1719A         | 2            | Pressurizer Quench Tank Vent to Gaseous Radwaste System Containment Isolation Valve | ITT Grinnell       | Weir       | 3"              | 150                | ITT Grinnell          | Spring & Diaphragm | 350             | 150            | 150             | 2500 #/HR   |
| RC1719B         | 2            | Pressurizer Quench Tank Vent to Gaseous Radwaste System Containment Isolation Valve | ITT Grinnell       | Weir       | 3"              | 150                | ITT Grinnell          | Spring & Diaphragm | 350             | 150            | 150             | 2500 #/HR   |
| RC1773A         | 2            | Reactor Coolant Drain Tank Header Containment Isolation Valve                       | ITT Grinnell       | Weir       | 3"              | 150                | ITT Grinnell          | Spring & Diaphragm | 300             | 165            | 165             | 140 GPM     |
| RC1773B         | 2            | Reactor Coolant Drain Tank Header Containment Isolation Valve                       | ITT Grinnell       | Weir       | 3"              | 150                | ITT Grinnell          | Spring & Diaphragm | 300             | 165            | 165             | 140 GPM     |
| RC229A          | 2            | Pressurizer Quench Tank Recirculation Containment Isolation Valve                   | ITT Hammel Dahl    | Globe      | 3"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm | 350             | 90             | 90              | 100 GPM     |
| RC229B          | 2            | Pressurizer Quench Tank Recirculation Containment Isolation Valve                   | ITT Hammel Dahl    | Globe      | 3"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm | 350             | 90             | 90              | 100 GPM     |

| Equipment Group | AOV Category | Equipment Name  | Valve Manufacturer | Valve Type | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow   |
|-----------------|--------------|---|--------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|---------------|
| RC232           | 2            | Pressurizer Quench Tank Cooler Return Containment Isolation Valve | ITT Hammel Dahl    | Globe      | 2"              | 600                | ITT Hammel Dahl       | Spring & Diaphragm   | 350             | 30             | 30              | 100 GPM       |
| SA2010          | 2            | Station Air to Containment Isolation Valve                        | ITT Hammel Dahl    | Globe      | 1 1/2"          | 600                | ITT Hammel Dahl       | Spring & Diaphragm   | 150             | 125            | 125             | 400 SCFM      |
| SP13A1          | 2            | Turbine Bypass Valve 2-1 to Low Pressure Condenser                | CDC Valve Company  | Cage&Ball  | 6"              | 600                | Miller Fluid Power    | Spring Return Piston | 600             | 1065           | 1065            | 490,000 lb/hr |
| SP13A2          | 2            | Turbine Bypass Valve 2-2 to Low Pressure Condenser                | CDC Valve Company  | Cage&Ball  | 6"              | 600                | Miller Fluid Power    | Spring Return Piston | 600             | 1065           | 1065            | 490,000 lb/hr |
| SP13A3          | 2            | Turbine Bypass Valve 2-3 to Low Pressure Condenser                | CDC Valve Company  | Cage&Ball  | 6"              | 600                | Miller Fluid Power    | Spring Return Piston | 600             | 1065           | 1065            | 490,000 lb/hr |
| SP13B1          | 2            | Turbine Bypass Valve 1-1 to High Pressure Condenser               | CDC Valve Company  | Cage&Ball  | 6"              | 600                | Miller Fluid Power    | Spring Return Piston | 600             | 1065           | 1065            | 490,000 lb/hr |
| SP13B2          | 2            | Turbine Bypass Valve 1-2 to High Pressure Condenser               | CDC Valve Company  | Cage&Ball  | 6"              | 600                | Miller Fluid Power    | Spring Return Piston | 600             | 1065           | 1065            | 490,000 lb/hr |

| Equipment Group | AOV Category | Equipment Name   | Valve Manufacturer | Valve Type  | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow     |
|-----------------|--------------|--|--------------------|-------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-----------------|
| SP13B3          | 2            | Turbine Bypass Valve 1-3 to High Pressure Condenser        | CDC Valve Company  | Cage&Ball   | 6"              | 600                | Miller Fluid Power    | Spring Return Piston | 600             | 1065           | 1065            | 490,000 lb/hr   |
| SP6A            | 2            | Main Feedwater Control Valve to Steam Generator 1-2        | Fisher Controls    | Angle Globe | 16"             | 900                | Fisher Controls       | Double Acting Piston | 470             | 1450           | 1450            | 6,120,000 lb/hr |
| SP6B            | 2            | Main Feedwater Control Valve to Steam Generator 1-1        | Fisher Controls    | Angle Globe | 16"             | 900                | Fisher Controls       | Double Acting Piston | 470             | 1450           | 1450            | 6,120,000 lb/hr |
| SP7A            | 2            | Startup Feedwater Control Valve to Steam Generator 1-2     | Fisher Controls    | Globe       | 6"              | 1500               | Fisher Controls       | Double Acting Piston | 470             | 1450           | 1450            | 820,000 lb/hr   |
| SP7B            | 2            | Startup Feedwater Control Valve to Steam Generator 1-1     | Fisher Controls    | Globe       | 6"              | 1500               | Fisher Controls       | Double Acting Piston | 470             | 1450           | 1450            | 820,000 lb/hr   |
| SS235A          | 2            | Pressurizer Quench Tank Sample Containment Isolation Valve | ITT Hammel Dahl    | Globe       | 1"              | 600                | ITT Hammel Dahl       | Spring & Diaphragm   | 350             | 90             | 90              | 10 SCFM         |
| SS235B          | 2            | Pressurizer Quench Tank Sample Containment Isolation Valve | ITT Hammel Dahl    | Globe       | 1"              | 600                | ITT Hammel Dahl       | Spring & Diaphragm   | 350             | 90             | 90              | 10 SCFM         |



| Equipment Group | AOV Category | Equipment Name   | Valve Manufacturer | Valve Type | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|--|--------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------|
| SS598           | 2            | Steam Generator 1-2 Sample Containment Isolation Valve           | ITT Hammel Dahl    | Globe      | 3/4"            | 600                | ITT Hammel Dahl       | Spring & Diaphragm   | 540             | 1155           | 1155            | 2 GPM       |
| SS607           | 2            | Steam Generator 1-1 Sample Containment Isolation Valve           | ITT Hammel Dahl    | Globe      | 3/4"            | 600                | ITT Hammel Dahl       | Spring & Diaphragm   | 540             | 1155           | 1155            | 2 GPM       |
| SW1356          | 2            | Containment Air Cooler 1-1 Service Water Outlet Isolation Valve  | ITT Hammel Dahl    | Ball       | 8"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm   | 264             | 155            | 155             | 1600 GPM    |
| SW1357          | 2            | Containment Air Cooler 1-2 Service Water Outlet Isolation Valve  | ITT Hammel Dahl    | Ball       | 8"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm   | 264             | 155            | 155             | 1600 GPM    |
| SW1358          | 2            | Containment Air Cooler 1-3 Service Water Outlet Isolation Valve  | ITT Hammel Dahl    | Ball       | 8"              | 150                | ITT Hammel Dahl       | Spring & Diaphragm   | 264             | 155            | 155             | 1600 GPM    |
| SW1424          | 1            | Component Cooling Water 1-1 Service Water Outlet Isolation Valve | Neles-Jamesbury    | Ball       | 12"             | 150                | Neles-Jamesbury       | Spring Return Piston | 100             | 131            | 131             | 8000 GPM    |
| SW1429          | 1            | Component Cooling Water 1-3 Service Water Outlet Isolation Valve | Neles-Jamesbury    | Ball       | 12"             | 150                | Neles-Jamesbury       | Spring Return Piston | 100             | 131            | 131             | 8000 GPM    |

| Equipment Group | AOV Category | Equipment Name  | Valve Manufacturer | Valve Type | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type        | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|---|--------------------|------------|-----------------|--------------------|-----------------------|----------------------|-----------------|----------------|-----------------|-------------|
| SW1434          | 1            | Component Cooling Water 1-2 Service Water Outlet Isolation Valve  | Neles-Jamesbury    | Ball       | 12"             | 150                | Neles-Jamesbury       | Spring Return Piston | 100             | 131            | 131             | 8000 GPM    |
| SW2944          | 3            | Service Water Strainer Blowdown Valve to Collection Basin         | Fisher Controls    | Butterfly  | 8"              | 150                | Fisher Controls       | Double Acting Piston | 150             | 150            | 150             | 1000 GPM    |
| SW2945          | 3            | Service Water Strainer Blowdown Valve to Intake Structure Forebay | Fisher Controls    | Butterfly  | 4"              | 150                | Fisher Controls       | Spring & Diaphragm   | 150             | 16             | 150             | 1000 GPM    |
| WG1803          | 3            | Waste Gas Surge Tank to Waste Gas Compressor 1-1                  | ITT Grinnell       | Weir       | 2"              | 150                | ITT Grinnell          | Spring & Diaphragm   | 200             | 15             | 15              | 65 SCFM     |
| WG1810          | 3            | Waste Gas Surge Tank to Waste Gas Compressor 1-2                  | ITT Grinnell       | Weir       | 2"              | 150                | ITT Grinnell          | Spring & Diaphragm   | 200             | 15             | 15              | 65 SCFM     |
| WG1823          | 2            | Waste Gas Decay Tank 1-1 Inlet from Waste Gas Compressor 1-1      | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm   | 200             | 150            | 150             | 65 SCFM     |
| WG1824          | 2            | Waste Gas Decay Tank 1-1 Inlet from Waste Gas Compressor 1-2      | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm   | 200             | 150            | 150             | 65 SCFM     |

| Equipment Group | AOV Category | Equipment Name   | Valve Manufacturer | Valve Type | Valve Size (In) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type      | Design Temp (F) | dP open (psid) | dP close (psid) | Design Flow |
|-----------------|--------------|--|--------------------|------------|-----------------|--------------------|-----------------------|--------------------|-----------------|----------------|-----------------|-------------|
| WG1825          | 2            | Waste Gas Decay Tank 1-2 Inlet from Waste Gas Compressor 1-1       | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm | 200             | 150            | 150             | 65 SCFM     |
| WG1826          | 2            | Waste Gas Decay Tank 1-2 Inlet from Waste Gas Compressor 1-2       | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm | 200             | 150            | 150             | 65 SCFM     |
| WG1827          | 2            | Waste Gas Decay Tank 1-3 Inlet from Waste Gas Compressor 1-1       | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm | 200             | 150            | 150             | 65 SCFM     |
| WG1828          | 2            | Waste Gas Decay Tank 1-3 Inlet from Waste Gas Compressor 1-2       | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm | 200             | 150            | 150             | 65 SCFM     |
| WG1835          | 2            | Waste Gas Decay Tank 1-1 Outlet Valve to Clean Waste Receiver Tank | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm | 150             | 150            | 150             | 65 SCFM     |
| WG1836          | 2            | Waste Gas Decay Tank 1-1 Outlet Valve to Waste Gas Absolute Filter | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm | 150             | 150            | 150             | 65 SCFM     |
| WG1837          | 2            | Waste Gas Decay Tank 1-2 Outlet Valve to Clean Waste Receiver Tank | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm | 150             | 150            | 150             | 65 SCFM     |

| Equipment Group | AOV Category | Equipment Name   | Valve Manufacturer | Valve Type | Valve Size (in) | Valve Rating (lbs) | Actuator Manufacturer | Actuator Type      | Design Temp (F) | dP open (pskD) | dP close (pskD) | Design Flow |
|-----------------|--------------|--|--------------------|------------|-----------------|--------------------|-----------------------|--------------------|-----------------|----------------|-----------------|-------------|
| WG1838          | 2            | Waste Gas Decay Tank 1-2 Outlet Valve to Waste Gas Absolute Filter | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm | 150             | 150            | 150             | 65 SCFM     |
| WG1839          | 2            | Waste Gas Decay Tank 1-3 Outlet Valve to Clean Waste Receiver Tank | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm | 150             | 150            | 150             | 65 SCFM     |
| WG1840          | 2            | Waste Gas Decay Tank 1-3 Outlet Valve to Waste Gas Absolute Filter | ITT Grinnell       | Weir       | 1"              | 150                | ITT Grinnell          | Spring & Diaphragm | 150             | 150            | 150             | 65 SCFM     |
| WG2853          | 3            | Waste Gas Surge Tank 1-1 Inlet Valve                               | ITT Grinnell       | Weir       | 3"              | 150                | ITT Grinnell          | Spring & Diaphragm | 300             | 14             | 14              | 50 SCFM     |
| WG2854          | 3            | Waste Gas Surge Tank 1-1 Recirculation Valve                       | ITT Grinnell       | Weir       | 1 1/2"          | 150                | ITT Grinnell          | Spring & Diaphragm | 200             | 148            | 148             | 65 SCFM     |

Docket Number 50-346  
License Number NPF-3  
Serial Number 2733  
Attachment 2  
Page 1 of 1

**COMMITMENT LIST**

The following list identifies those actions committed to by the Davis-Besse Nuclear Power Station (DBNPS) in this document. Any other actions discussed in the submittal represent intended or planned actions by the DBNPS. They are described only for information and are not regulatory commitments. Please notify the Manager - Regulatory Affairs (419-321-8450) at the DBNPS of any questions regarding this document or associated regulatory commitments.

**COMMITMENTS**

**DUE DATE**

None