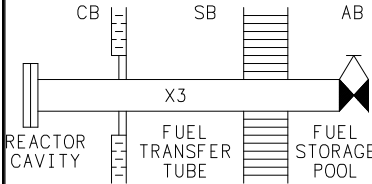
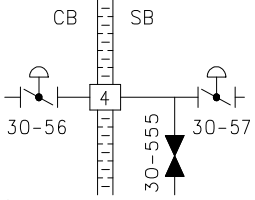
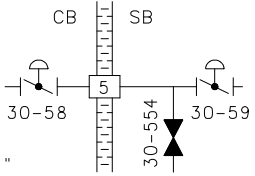
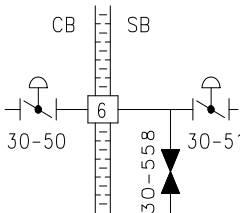
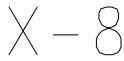


WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

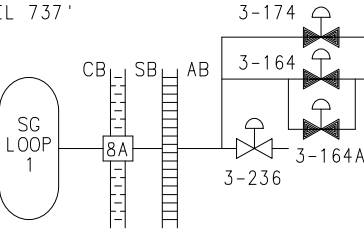
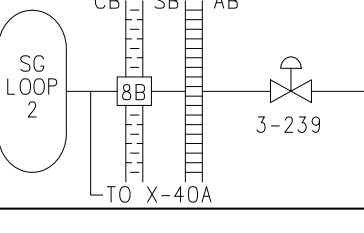
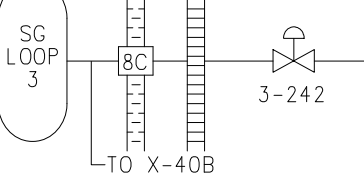
| PENETRATION DATA |            |                   |    |    |  |               |    |    |  | VALVE DATA      |    |    |  |                                           |    |    |  |                |    |    |  |              |    |    |  |                 |    |    |  |            |    |    |  |          |    |    |  |              |    |    |  |              |    |    |  |                  |    |    |  |             |    |    |  |        |    |    |  |          |    |    |  |               |    |    |  |               |    |    |  |                |    |    |  |            |    |    |  |                   |    |    |  |                         |    |    |  |       |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  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| DETAILS          | DWG NUMBER | GEN DES CRITERION |    |    |  | PROCESS FLUID |    |    |  | POSS LEAK PATHS |    |    |  | SYSTEM NUMBER AND PENETRATION DESCRIPTION |    |    |  | VALVE LOCATION |    |    |  | VALVE NUMBER |    |    |  | ESF POWER TRAIN |    |    |  | VALVE TYPE |    |    |  | ACTUATOR |    |    |  | PRI ACT MODE |    |    |  | SEC ACT MODE |    |    |  | ISOLATION SIGNAL |    |    |  | STROKE TIME |    |    |  | NORMAL |    |    |  | SHUTDOWN |    |    |  | POST-ACCIDENT |    |    |  | POWER FAILURE |    |    |  | POS IND IN MCR |    |    |  | APP J TEST |    |    |  | ESSENTIAL/NON-ESS |    |    |  | SHIELD BLDG PENETRATION |    |    |  | NOTES |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  |    |    |    |  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|                  |            | CB                | SB | AB |  | CB            | SB | AB |  | CB              | SB | AB |  | CB                                        | SB | AB |  | CB             | SB | AB |  | CB           | SB | AB |  | CB              | SB | AB |  | CB         | SB | AB |  | CB       | SB | AB |  | CB           | SB | AB |  | CB           | SB | AB |  | CB               | SB | AB |  | CB          | SB | AB |  | CB     | SB | AB |  | CB       | SB | AB |  | CB            | SB | AB |  | CB            | SB | AB |  | CB             | SB | AB |  | CB         | SB | AB |  | CB                | SB | AB |  | CB                      | SB | AB |  |       | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  | CB | SB | AB |  |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                                 |                                                               |                   |               |             |                 |                                                      |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |        |                |            |                   |                         |       |          |  |       |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------|---------------|-------------|-----------------|------------------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|--------|----------------|------------|-------------------|-------------------------|-------|----------|--|-------|
| DETAILS                                                                                                          | DWG NUMBER                                                    | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION            | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |        |                |            |                   |                         |       |          |  | NOTES |
|                                                                                                                  |                                                               |                   |               |             |                 |                                                      |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT   | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |       |          |  |       |
|  <p>EL 711'3" AZ 261°50'</p>     | 47W455-1<br>72-4333<br>-PS1<br>(CB & 1<br>CONTRACT<br>#75320) | 56                | W             | C           | AB<br>D         | FUEL<br>TRANSFER<br>TUBE                             | AB             | -            | -               | BL         | M        | LM           | -            | -                | -           | C      | V        | C             | -             | C      | N              | N          | AB                | N                       | MK62  |          |  |       |
|  <p>EL 735<br/>AZ 36°30'</p>    | 47W866-1                                                      | 56                | A             | C           | AB<br>CE        | LOWER<br>COMPARTMENT<br>PURGE AIR<br>EXHAUST<br>(30) | CB<br>SB       | 56<br>57     | A<br>B          | BF<br>BF   | AO<br>AO | AT<br>AT     | RM<br>RM     | CV<br>CV         | 4.0<br>4.0  | V<br>V | O<br>O   | C<br>C        | C<br>C        | C<br>C | Y<br>Y         | N<br>N     | AC<br>AC          | N                       | F-005 | 3, 6, 14 |  |       |
|  <p>EL 739'8"<br/>AZ 116°</p> | 47W866-1                                                      | 56                | A             | C           | AB<br>CE        | INST RM<br>PURGE AIR<br>EXHAUST<br>(30)              | CB<br>SB       | 58<br>59     | B<br>A          | BF<br>BF   | AO<br>AO | AT<br>AT     | RM<br>RM     | CV<br>CV         | 4.0<br>4.0  | V<br>V | O<br>O   | C<br>C        | C<br>C        | C<br>C | Y<br>Y         | N<br>N     | AC<br>AC          | N                       | F-005 | 3, 6, 14 |  |       |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                                    |            |                   |               |             |                 |                                                      |                |              |                 |            |          |              |              |                  |             |        |          |               |               |        |                |        |          |   |       |            |                   |                         |       |
|----------------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|------------------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|--------|----------------|--------|----------|---|-------|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                                                               |            |                   |               |             |                 |                                                      |                |              |                 |            |          |              |              | VALVE DATA       |             |        |          |               |               |        |                |        |          |   |       |            |                   |                         |       |
| DETAILS                                                                                                        | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION            | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |        |                |        |          |   |       | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                                |            |                   |               |             |                 |                                                      |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT   | POS IND IN MCR | ESF    | AC       | Y | N     |            |                   |                         |       |
|  <p>EL 749'3"<br/>AZ 293°</p> | 47W866-1   | 56                | A             | C           | AB<br>CE        | UPPER<br>COMPARTMENT<br>PURGE AIR<br>EXHAUST<br>(30) | CB<br>SB       | 50<br>51     | B<br>A          | BF<br>BF   | AO<br>AO | AT<br>AT     | RM<br>RM     | CV<br>CV         | 4.0<br>4.0  | V<br>V | O<br>O   | C<br>C        | C<br>C        | C<br>C | Y<br>Y         | N<br>N | AC<br>AC | N | F-005 | 3, 6, 14   |                   |                         |       |
| <p>EL 751'4"<br/>AZ 249°30'</p>                                                                                | 47W866-1   | 56                | A             | C           | AB<br>CE        | UPPER<br>COMPARTMENT<br>PURGE AIR<br>EXHAUST<br>(30) | CB<br>SB       | 52<br>53     | A<br>B          | BF<br>BF   | AO<br>AO | AT<br>AT     | RM<br>RM     | CV<br>CV         | 4.0<br>4.0  | V<br>V | O<br>O   | C<br>C        | C<br>C        | C<br>C | Y<br>Y         | N<br>N | AC<br>AC | N | F-005 | 3, 6, 14   |                   |                         |       |
|  <p>EL 790'0" AZ 266°</p>   | 48W406     | -                 | -             | -           | -               | SPARE                                                | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -      | -              | A      | -        | - |       |            |                   |                         |       |

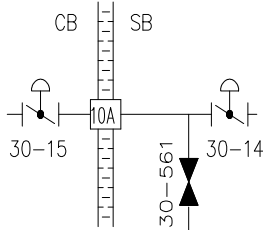
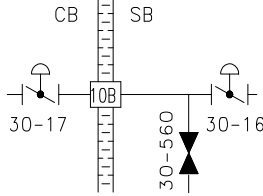
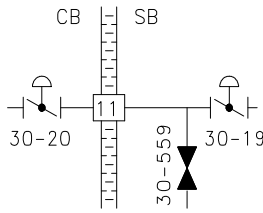
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                   |                |         |           |               |             |                            |                                           |                           |                    | VALVE DATA           |                      |                      |                      |                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |   |       |            |                   |                         | NOTES |
|------------------------------------------------------------------------------------|----------------|---------|-----------|---------------|-------------|----------------------------|-------------------------------------------|---------------------------|--------------------|----------------------|----------------------|----------------------|----------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|---|-------|------------|-------------------|-------------------------|-------|
| DETAILS                                                                            | DWG NUMBER     | GEN DES | CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS            | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION            | VALVE NUMBER       | ESF POWER TRAIN      | VALVE TYPE           | ACTUATOR             | PRI ACT MODE         | SEC ACT MODE      | ISOLATION SIGNAL | STROKE TIME      | NORMAL           | SHUTDOWN         | POST-ACCIDENT    | POWER FAILURE    | VALVE STATUS     |                  |                  |   |   |       | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |       |
|                                                                                    |                |         |           |               |             |                            |                                           |                           |                    |                      |                      |                      |                      |                   |                  |                  |                  |                  |                  |                  | POS IND IN MCR   | ESF              | Y                | N | A | Y     |            |                   |                         |       |
|    | 47W803<br>-1,2 | 57      | W         | H             | BC<br>E     | FEEDWATER<br>BYPASS<br>(3) | AB                                        | 236<br>174<br>164<br>164A | A,B<br>B<br>A<br>A | GL<br>GL<br>GL<br>AO | AO<br>AO<br>AO<br>RM | AT<br>RM<br>RM<br>LM | LM<br>LM<br>LM<br>LM | FW<br>-<br>-<br>- | -<br>-<br>-<br>- | O<br>C<br>C<br>C | C<br>C<br>C<br>C | C<br>V<br>V<br>C | C<br>C<br>C<br>C | C<br>C<br>C<br>C | Y<br>Y<br>Y<br>Y | N<br>N<br>N<br>N | A<br>A<br>A<br>A |   | N | MK112 | 22,23,25   |                   |                         |       |
|   | 47W803<br>-1,2 | 57      | W         | H             | BC<br>E     | FEEDWATER<br>BYPASS<br>(3) | AB                                        | 239                       | A,B                | GL                   | AO                   | AT                   | LM                   | FW                | -                | O                | C                | C                | C                | C                | C                | Y                | N                | A |   | N     | MK113      | 22,25             |                         |       |
|  | 47W803<br>-1,2 | 57      | W         | H             | BC<br>E     | FEEDWATER<br>BYPASS<br>(3) | AB                                        | 242                       | A,B                | GL                   | AO                   | AT                   | LM                   | FW                | -                | O                | C                | C                | C                | C                | C                | Y                | N                | A |   | N     | MK114      | 22,25             |                         |       |

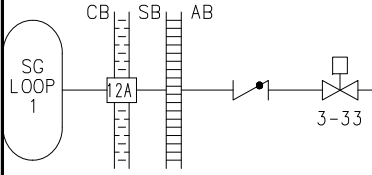
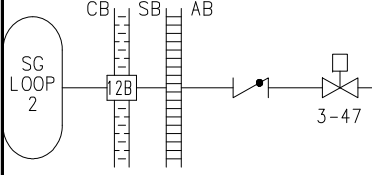
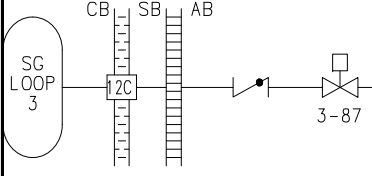
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA              |            |                   |               |             |                 |                                           |                |                           |                    | VALVE DATA           |                      |                      |                      |                   |                  |                  |                  |                  |                  |                  |                  |                  |          |       |            |        |   |            |                   | NOTES |                         |
|-------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|---------------------------|--------------------|----------------------|----------------------|----------------------|----------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|-------|------------|--------|---|------------|-------------------|-------|-------------------------|
| DETAILS                       | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER              | ESF POWER TRAIN    | VALVE TYPE           | ACTUATOR             | PRI ACT MODE         | SEC ACT MODE         | ISOLATION SIGNAL  | STROKE TIME      | NORMAL           | SHUTDOWN         | POST-ACCIDENT    | POWER FAILURE    | VALVE STATUS     |                  |                  |          |       |            |        |   | APP J TEST | ESSENTIAL/NON-ESS |       | SHIELD BLDG PENETRATION |
|                               |            |                   |               |             |                 |                                           |                |                           |                    |                      |                      |                      |                      |                   |                  |                  |                  |                  |                  | ILRT             | POS IND IN MCR   | ESF              | Y        | N     | A          | C      | O |            |                   |       |                         |
| <p>EL 737'</p>                | 47W803-1,2 | 57                | W             | H           | BC E            | FEEDWATER BYPASS (3)                      | AB             | 245<br>175<br>171<br>171A | A,B<br>A<br>B<br>B | GL<br>GL<br>GL<br>AO | AO<br>AO<br>AO<br>RM | AT<br>RM<br>RM<br>RM | LM<br>LM<br>LM<br>LM | FW<br>-<br>-<br>- | -<br>-<br>-<br>- | O<br>C<br>C<br>C | C<br>C<br>C<br>C | C<br>C<br>C<br>C | C<br>C<br>C<br>C | Y<br>Y<br>Y<br>Y | N<br>N<br>N<br>N | A<br>A<br>A<br>A | N        | MK115 | 22, 23, 25 |        |   |            |                   |       |                         |
| <p>EL 798'11"<br/>AZ 289°</p> | 47W866-1   | 56                | A             | C           | AB CE           | UPPER COMPARTMENT PURGE AIR SUPPLY (30)   | CB SB          | 8<br>7                    | B<br>A             | BF<br>BF             | AO<br>AO             | AT<br>AT             | RM<br>RM             | CV<br>CV          | 4.0<br>4.0       | V<br>V           | O<br>O           | C<br>C           | C<br>C           | C<br>C           | Y<br>Y           | N<br>N           | AC<br>AC | N     | F-002      | 3,6,14 |   |            |                   |       |                         |
| <p>EL 798'11"<br/>AZ 261°</p> | 47W866-1   | 56                | A             | C           | AB CE           | UPPER COMPARTMENT PURGE AIR SUPPLY (30)   | CB SB          | 10<br>9                   | A<br>B             | BF<br>BF             | AO<br>AO             | AT<br>AT             | RM<br>RM             | CV<br>CV          | 4.0<br>4.0       | V<br>V           | O<br>O           | C<br>C           | C<br>C           | C<br>C           | Y<br>Y           | N<br>N           | AC<br>AC | N     | F-002      | 3,6,14 |   |            |                   |       |                         |

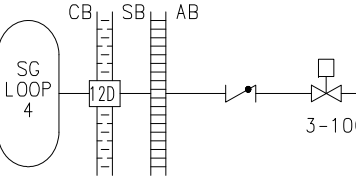
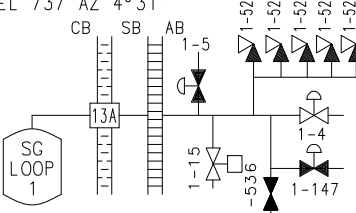
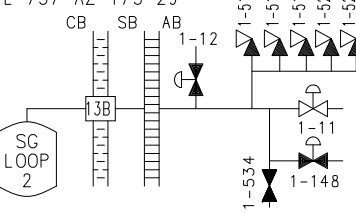
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                                |            |         |           |               |          |                                                     |                                           |                |              | VALVE DATA      |            |          |              |              |                  |             |        |          |               |               |        |                |          |   |       |        |   |   |            |                   |                         |       |
|-----------------------------------------------------------------------------------------------------------------|------------|---------|-----------|---------------|----------|-----------------------------------------------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|--------|----------------|----------|---|-------|--------|---|---|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                         | DWG NUMBER | GEN DES | CRITERION | PROCESS FLUID | STATE    | POSS LEAK PATHS                                     | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |        |                |          |   |       |        |   |   | APP T TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                                 |            |         |           |               |          |                                                     |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT   | POS IND IN MCR | Y        | N | AC    | C      | O | V |            |                   |                         |       |
|  <p>EL 737<br/>AZ 301°</p>     | 47W866-1   | 56      | A         | C             | AB<br>CE | LOWER<br>COMPARTMENT<br>PURGE AIR<br>SUPPLY<br>(30) | CB<br>SB                                  | 15<br>14       | B<br>A       | BF<br>BF        | AO<br>AO   | AT<br>AT | RM<br>RM     | CV<br>CV     | 4.0<br>4.0       | V<br>V      | O<br>O | C<br>C   | C<br>C        | C<br>C        | Y<br>Y | N<br>N         | AC<br>AC | N | F-002 | 3,6,14 |   |   |            |                   |                         |       |
|  <p>EL 737<br/>AZ 236°30'</p>  | 47W866-1   | 56      | A         | C             | AB<br>CE | LOWER<br>COMPARTMENT<br>PURGE AIR<br>SUPPLY<br>(30) | CB<br>SB                                  | 17<br>16       | A<br>B       | BF<br>BF        | AO<br>AO   | AT<br>AT | RM<br>RM     | CV<br>CV     | 4.0<br>4.0       | V<br>V      | C<br>C | C<br>C   | C<br>C        | C<br>C        | Y<br>Y | N<br>N         | AC<br>AC | N | F-002 | 3,6,14 |   |   |            |                   |                         |       |
|  <p>EL 728'6"<br/>AZ 57°</p> | 47W866-1   | 56      | A         | C             | AB<br>CE | INST RM<br>PURGE AIR<br>SUPPLY<br>(30)              | CB<br>SB                                  | 20<br>19       | A<br>B       | BF<br>BF        | AO<br>AO   | AT<br>AT | RM<br>RM     | CV<br>CV     | 4.0<br>4.0       | V<br>V      | O<br>O | C<br>C   | C<br>C        | C<br>C        | Y<br>Y | N<br>N         | AC<br>AC | N | F-002 | 3,6,14 |   |   |            |                   |                         |       |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

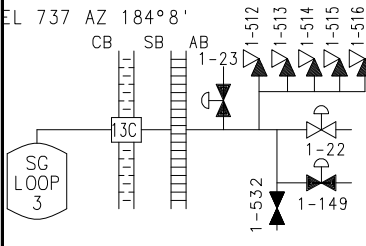
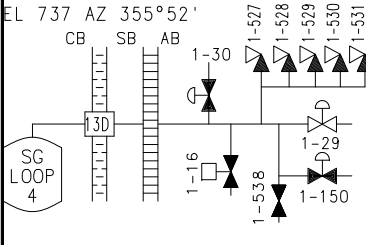
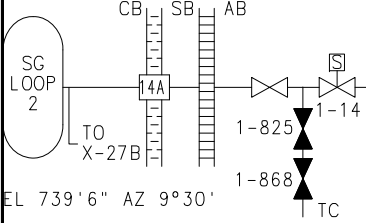
| DETAILS                                                                                                     | PENETRATION DATA |         |           |               |             |                  |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |      |                |            |   |      |    |  |  |                   |                         | NOTES |
|-------------------------------------------------------------------------------------------------------------|------------------|---------|-----------|---------------|-------------|------------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|------------|---|------|----|--|--|-------------------|-------------------------|-------|
|                                                                                                             | DWG NUMBER       | GEN DES | CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS  | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |            |   |      |    |  |  | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |       |
|                                                                                                             |                  |         |           |               |             |                  |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | APP J TEST |   |      |    |  |  |                   |                         |       |
|  <p>EL 731 AZ 7°40'</p>     | 47W803-1         | 57      | W         | H             | BC<br>E     | FEEDWATER<br>(3) | AB                                        | 33             | A            | GA              | MO         | AT       | LM           | FW           | -                | O           | C      | C        | AI            | C             | Y    | N              | A          | N | MK70 | 22 |  |  |                   |                         |       |
|  <p>EL 731 AZ 172°20'</p>   | 47W803-1         | 57      | W         | H             | BC<br>E     | FEEDWATER<br>(3) | AB                                        | 47             | B            | GA              | MO         | AT       | LM           | FW           | -                | O           | C      | C        | AI            | C             | Y    | N              | A          | N | MK69 | 22 |  |  |                   |                         |       |
|  <p>EL 731 AZ 187°40'</p> | 47W803-1         | 57      | W         | H             | BC<br>E     | FEEDWATER<br>(3) | AB                                        | 87             | A            | GA              | MO         | AT       | LM           | FW           | -                | O           | C      | C        | AI            | C             | Y    | N              | A          | N | MK68 | 22 |  |  |                   |                         |       |

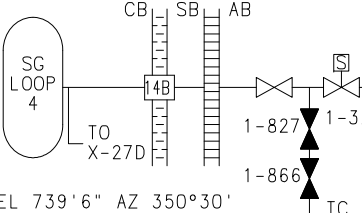
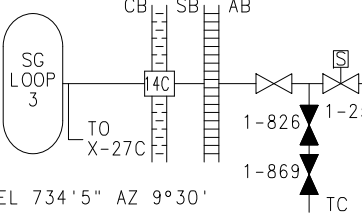
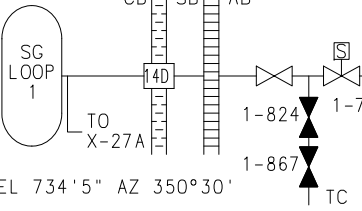
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                            |                      |                   |               |             |                 |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |      |                |            |                   |                         |     |            |                   |                         |       |    |
|-------------------------------------------------------------------------------------------------------------|----------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|------------|-------------------|-------------------------|-----|------------|-------------------|-------------------------|-------|----|
| DETAILS                                                                                                     | DWG NUMBER           | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |            |                   |                         | ESF | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |    |
|                                                                                                             |                      |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |     |            |                   |                         |       |    |
|  <p>EL 731 AZ 352°20'</p>   | 47W803-1             | 57                | W             | H           | BC<br>E         | FEEDWATER<br>(3)                          | AB             | 100          | B               | GA         | MO       | AT           | LM           | FW               | —           | O      | C        | C             | AI            | C    | Y              | N          | A                 | N                       |     |            |                   |                         | MK67  | 22 |
|  <p>EL 737 AZ 4°31'</p>     | 47W801-1<br>47W803-2 | 57                | S             | H           | BC<br>E         | MAIN STEAM<br>(1)                         | AB             | 4            | A, B            | GL         | AO       | AT           | LM           | MS               | —           | O      | C        | C             | C             | C    | Y              | N          | A                 | N                       |     |            |                   |                         | MK66  | 22 |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 5            | A, B            | RV         | AO       | AT           | RM           | —                | —           | C      | C        | C             | C             | C    | Y              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 15           | A               | GA         | MO       | AT           | RM           | —                | —           | O      | C        | V             | C             | AT   | C              | N          | N                 | A                       | N   |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 147          | A               | GA         | AO       | AT           | RM           | MS               | —           | C      | V        | C             | C             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 522          | —               | RV         | —        | SA           | —            | —                | —           | C      | C        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 523          | —               | RV         | —        | SA           | —            | —                | —           | C      | C        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 524          | —               | RV         | —        | SA           | —            | —                | —           | C      | C        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 525          | —               | RV         | —        | SA           | —            | —                | —           | C      | C        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 526          | —               | RV         | —        | SA           | —            | —                | —           | C      | C        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 536          | —               | GL         | M        | LM           | —            | —                | —           | C      | V        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|  <p>EL 737 AZ 175°29'</p> | 47W801-1             | 57                | S             | H           | BC<br>E         | MAIN STEAM<br>(1)                         | AB             | 11           | A, B            | GL         | AO       | AT           | LM           | MS               | —           | O      | C        | C             | C             | C    | Y              | N          | A                 | N                       |     |            |                   |                         | MK65  | 22 |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 12           | A, B            | RV         | AO       | AT           | RM           | —                | —           | C      | C        | C             | C             | C    | Y              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 148          | B               | GA         | AO       | AT           | RM           | MS               | —           | C      | V        | C             | C             | C    | Y              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 517          | —               | RV         | —        | SA           | —            | —                | —           | C      | C        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 518          | —               | RV         | —        | SA           | —            | —                | —           | C      | C        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 519          | —               | RV         | —        | SA           | —            | —                | —           | C      | C        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 520          | —               | RV         | —        | SA           | —            | —                | —           | C      | C        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 521          | —               | RV         | —        | SA           | —            | —                | —           | C      | C        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |
|                                                                                                             |                      |                   |               |             |                 |                                           | AB             | 534          | —               | GL         | M        | LM           | —            | —                | —           | C      | V        | C             | —             | C    | N              | N          | A                 | N                       |     |            |                   |                         |       |    |



WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

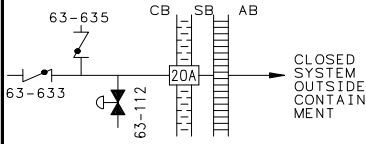
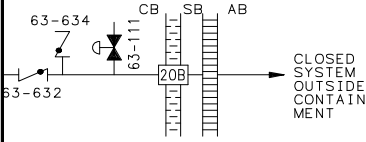
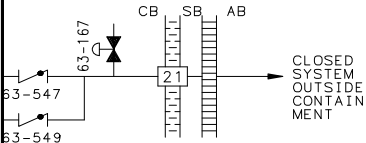
| PENETRATION DATA                                                                   |                      |                   |               |             |                 |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |              |   |   |   |            |                   |                         | NOTES |
|------------------------------------------------------------------------------------|----------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|--------------|---|---|---|------------|-------------------|-------------------------|-------|
| DETAILS                                                                            | DWG NUMBER           | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | VALVE STATUS |   |   |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |       |
|                                                                                    |                      |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               | Y            | N | A | N |            |                   |                         |       |
|    | 47W801-1             | 57                | S             | H           | BC<br>E         | MAIN STEAM<br>(1)                         | AB             | 22           | A, B            | GL         | AO       | AT           | LM           | MS               | -           | O      | C        | C             | C             | C            | Y | N | A | N          | MK64              | 22                      |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 23           | A, B            | RV         | AO       | AT           | RM           | -                | -           | C      | C        | C             | C             | C            | Y | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 149          | A               | GA         | AO       | AT           | RM           | MS               | -           | C      | V        | C             | C             | C            | Y | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 512          | -               | RV         | -        | SA           | -            | -                | -           | C      | C        | C             | -             | C            | N | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 513          | -               | RV         | -        | SA           | -            | -                | -           | C      | C        | C             | -             | C            | N | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 514          | -               | RV         | -        | SA           | -            | -                | -           | C      | C        | C             | -             | C            | N | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 515          | -               | RV         | -        | SA           | -            | -                | -           | C      | C        | C             | -             | C            | N | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 516          | -               | RV         | -        | SA           | -            | -                | -           | C      | C        | C             | -             | C            | N | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 532          | -               | GL         | M        | LM           | -            | -                | -           | C      | V        | C             | -             | C            | N | N | A |            |                   |                         |       |
|   | 47W801-1<br>47W803-2 | 57                | S             | H           | BC<br>E         | MAIN STEAM<br>(1)                         | AB             | 29           | A, B            | GL         | AO       | AT           | LM           | MS               | -           | O      | C        | C             | C             | C            | Y | N | A | N          | MK63              | 22                      |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 16           | A               | GA         | MO       | AT           | RM           | -                | -           | C      | C        | V             | AI            | C            | Y | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 30           | A, B            | RV         | AO       | AT           | RM           | -                | -           | C      | -        | C             | C             | C            | Y | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 150          | B               | GL         | AO       | AT           | RM           | MS               | -           | C      | V        | C             | C             | C            | Y | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 527          | -               | RV         | -        | SA           | -            | -                | -           | C      | C        | C             | -             | C            | N | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 528          | -               | RV         | -        | SA           | -            | -                | -           | C      | C        | C             | -             | C            | N | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 529          | -               | RV         | -        | SA           | -            | -                | -           | C      | C        | C             | -             | C            | N | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 530          | -               | RV         | -        | SA           | -            | -                | -           | C      | C        | C             | -             | C            | N | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 531          | -               | RV         | -        | SA           | -            | -                | -           | C      | C        | C             | -             | C            | N | N | A |            |                   |                         |       |
|                                                                                    |                      |                   |               |             |                 |                                           | AB             | 538          | -               | GL         | M        | LM           | -            | -                | -           | C      | V        | C             | -             | C            | N | N | A |            |                   |                         |       |
|  | 47W801-2             | 57                | W             | H           | BE              | STEAM GENERATOR<br>BLOWDOWN<br>(1)        | AB             | 14           | A               | GL         | SO       | AT           | RM           | PA               | 15.0        | O      | C        | C             | C             | C            | Y | N | A | N          | AS14A             | 22                      |       |

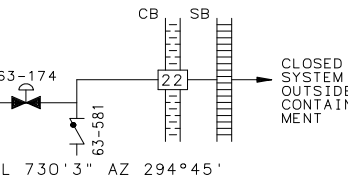
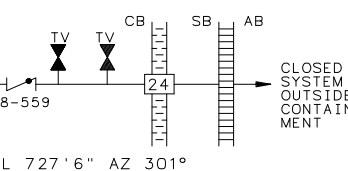
| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1        |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               |                |   |   |   |     |            |                   |                         |       |
|------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|----------------|---|---|---|-----|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                                   |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              | VALVE DATA       |             |        |          |               |               |                |   |   |   |     |            |                   |                         |       |
| DETAILS                                                                            | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | VALVE STATUS   |   |   |   | ESF | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                    |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               | POS IND IN MCR | Y | N | A |     |            |                   |                         |       |
|    | 47W801-2   | 57                | W             | H           | BE              | STEAM GENERATOR BLOWDOWN (1)              | AB             | 32           | A               | GL         | SO       | AT           | RM           | PA               | 15.0        | O      | C        | C             | C             | C              | Y | N | A | N   |            | AS14B             |                         | 22    |
|   | 47W801-2   | 57                | W             | H           | BE              | STEAM GENERATOR BLOWDOWN (1)              | AB             | 25           | B               | GL         | SO       | AT           | RM           | PA               | 15.0        | O      | C        | C             | C             | C              | Y | N | A | N   |            | AS14C             |                         | 22    |
|  | 47W801-2   | 57                | W             | H           | BE              | STEAM GENERATOR BLOWDOWN (1)              | AB             | 7            | B               | GL         | SO       | AT           | RM           | PA               | 15.0        | O      | C        | C             | C             | C              | Y | N | A | N   |            | AS14D             |                         | 22    |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

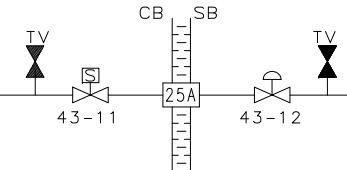
| PENETRATION DATA |            |                   |               |             |                 |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |                |     |      |   |   |    |   |   |   |            |                   |                         |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|----------------|-----|------|---|---|----|---|---|---|------------|-------------------|-------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DETAILS          | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | VALVE STATUS   |     |      |   |   |    |   |   |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                  |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               | POS IND IN MCR | ESF | ILRT | Y | N | AC | C | V | C |            |                   |                         |       | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| PENETRATION DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                   |               |             |                 |                                           |                |              |                 |            |          |              | VALVE DATA   |                  |             |        |          |               |               |      |                |  |  |  |  |            |                   |                         |       |
| DETAILS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | ILRT | VALVE STATUS   |  |  |  |  | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
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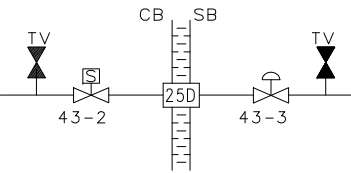
| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                                    |            |                   |               |             |                 |                                                      |                |                   |                 |                |              |                |              |                  |             |             |             |               |               |              |                |             |            |            |                   |                         |       |
|----------------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|------------------------------------------------------|----------------|-------------------|-----------------|----------------|--------------|----------------|--------------|------------------|-------------|-------------|-------------|---------------|---------------|--------------|----------------|-------------|------------|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                                                               |            |                   |               |             |                 |                                                      |                |                   |                 |                | VALVE DATA   |                |              |                  |             |             |             |               |               |              |                |             |            |            |                   |                         |       |
| DETAILS                                                                                                        | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION            | VALVE LOCATION | VALVE NUMBER      | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR     | PRI ACT MODE   | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL      | SHUTDOWN    | POST-ACCIDENT | POWER FAILURE | VALVE STATUS |                |             |            | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                                |            |                   |               |             |                 |                                                      |                |                   |                 |                |              |                |              |                  |             |             |             |               |               | ILRT         | POS IND IN MCR | ESF         | APP J TEST |            |                   |                         |       |
|  <p>EL 732 AZ 291°-30"</p>     | 47W811-1   | 55                | W             | C           | B<br>D          | RHR PUMP<br>DISCHARGE<br>TR B<br>(63)                | CB<br>CB<br>CB | 112<br>635<br>633 | -<br>-<br>-     | GL<br>CK<br>CK | AO<br>-<br>- | RM<br>SA<br>SA | -<br>-<br>-  | -<br>-<br>-      | V<br>C<br>C | V<br>C<br>C | C<br>V<br>V | C<br>-<br>-   | C<br>-<br>-   | Y<br>N<br>N  | N<br>Y<br>Y    | A<br>A<br>A | E          | AS20A      |                   |                         |       |
|  <p>EL 732 AZ 287°30'</p>      | 47W811-1   | 55                | W             | C           | BD              | RHR PUMP<br>DISCHARGE<br>TR A<br>(63)                | CB<br>CB<br>CB | 111<br>632<br>634 | -<br>-<br>-     | GL<br>CK<br>CK | AO<br>-<br>- | RM<br>SA<br>SA | -<br>-<br>-  | -<br>-<br>-      | V<br>C<br>C | V<br>C<br>C | C<br>V<br>V | C<br>-<br>-   | C<br>-<br>-   | Y<br>N<br>N  | N<br>Y<br>Y    | A<br>A<br>A | E          | AS20B      |                   |                         |       |
|  <p>EL 728'6" AZ 289°30'</p> | 47W811-1   | 56                | W             | C           | BD              | SIS PUMP<br>DISCHARGE<br>TO HOT LEGS<br>TR B<br>(63) | CB<br>CB<br>CB | 167<br>547<br>549 | -<br>-<br>-     | GL<br>CK<br>CK | AO<br>-<br>- | RM<br>SA<br>SA | -<br>-<br>-  | -<br>-<br>-      | C<br>-<br>- | C<br>-<br>- | V<br>-<br>- | C<br>-<br>-   | C<br>-<br>-   | Y<br>N<br>N  | N<br>Y<br>Y    | A<br>A<br>A | E          | AS21       |                   |                         |       |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1        |                                  |                   |   |    |               |             |                                  |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               |              |     |     |   |            |                   |                         |       |
|------------------------------------------------------------------------------------|----------------------------------|-------------------|---|----|---------------|-------------|----------------------------------|-------------------------------------------|----------------|--------------|-----------------|------------|------------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|--------------|-----|-----|---|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                                   |                                  |                   |   |    |               |             |                                  |                                           |                |              |                 |            | VALVE DATA |              |              |                  |             |        |          |               |               |              |     |     |   |            |                   |                         |       |
| DETAILS                                                                            | DWG NUMBER                       | GEN DES CRITERION |   |    | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS                  | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR   | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | VALVE STATUS |     |     |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                    |                                  | W                 | C | BD |               |             |                                  |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               | Y            | N   | A   | E |            |                   |                         |       |
|    | 47W811-1                         | 55                | W | C  | BD            |             | SIS CHARGING PUMP DISCHARGE (63) | CB CB                                     | 174 581        | -            | GL CK           | AO -       | RM SA      | -            | -            | -                | V -         | V -    | C -      | C -           | C -           | Y N          | N Y | A A | E | AS22       |                   |                         |       |
| <p>X-23</p> <p>EL 729' AZ 283°</p>                                                 | 47W625-15                        | -                 | - | -  | -             |             | SPARE                            | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | -             | -             | -            | -   | A   | - | -          |                   |                         |       |
|  | 47W813-1<br>47W811-1<br>47W812-1 | 56                | W | H  | BD            |             | RELIEF VALVE DISCHARGE (68)      | CB                                        | 559            | -            | CK              | -          | SA         | -            | -            | -                | C           | C      | C        | -             | -             | N            | Y   | A   | E | AS24       | 25                |                         |       |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

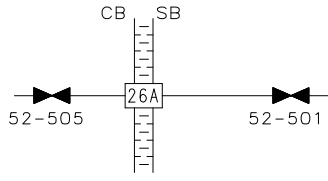
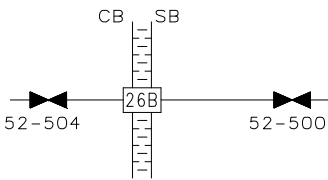
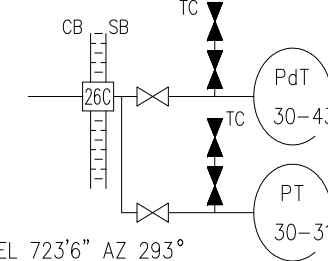
| PENETRATION DATA                                                                                          |            |                   |   |   |    |                                         |             |                 |                                           | VALVE DATA     |              |                 |            |          |              |              |                  |             |        |          |              |        |          |    |       |    |    |    |    |    |            |                   |                         |       |
|-----------------------------------------------------------------------------------------------------------|------------|-------------------|---|---|----|-----------------------------------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|--------------|--------|----------|----|-------|----|----|----|----|----|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                   | DWG NUMBER | GEN DES CRITERION |   |   |    | PROCESS FLUID                           | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS |        |          |    |       |    |    |    |    |    | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                           |            | 55                | W | H | AD |                                         |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | CB           | SB     | 11       | 12 | B     | GL | SO | AT | RM | PA |            |                   |                         |       |
|  <p>EL 723'6" AZ 294°</p> | 47W625-1   | 55                | W | H | AD | PRESSURIZER<br>LIQUID<br>SAMPLE<br>(43) | CB<br>SB    | 11<br>12        | B<br>A                                    | GL<br>GL       | SO<br>AO     | AT<br>AT        | RM<br>RM   | PA<br>PA | 5.0<br>5.0   | V<br>V       | V<br>V           | C<br>C      | C<br>C | C<br>C   | Y<br>Y       | N<br>N | AC<br>AC | N  | MK44H | 15 |    |    |    |    |            |                   |                         |       |
| <p>X-25B</p> <p>EL 723'6" AZ 294°</p>                                                                     | 47W331-2   | -                 | - | - | -  | SPARE                                   | -           | -               | -                                         | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -            | -      | -        | A  | -     | -  |    |    |    |    |            |                   |                         |       |
| <p>X-25C</p> <p>EL 723'6" AZ 294°</p>                                                                     | 47W331-2   | -                 | - | - | -  | SPARE                                   | -           | -               | -                                         | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -            | -      | A        | -  | -     |    |    |    |    |    |            |                   |                         |       |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

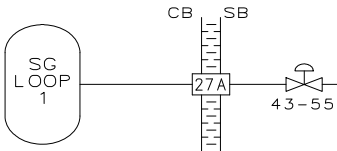
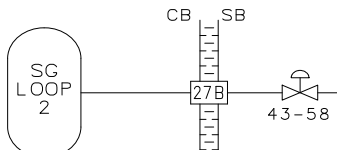
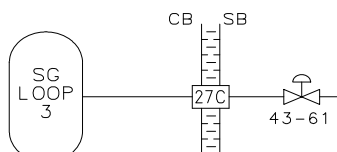
| DETAILS                                                                                                   | PENETRATION DATA |                   |               |             |                 |                                           |                |              |                 |            | VALVE DATA |              |              |                  |             |        |          |               |               |        |                |        |          |   |       |            |                   |                         |       |
|-----------------------------------------------------------------------------------------------------------|------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|------------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|--------|----------------|--------|----------|---|-------|------------|-------------------|-------------------------|-------|
|                                                                                                           | DWG NUMBER       | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR   | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |        |                |        |          |   |       | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                           |                  |                   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT   | POS IND IN MCR | ESF    | AC       | N | Y     |            |                   |                         |       |
|  <p>EL 723'6" AZ 294°</p> | 47W625-1         | 55                | S             | H           | AD              | PRESSURIZER<br>STEAM<br>SAMPLE<br>(43)    | CB<br>SB       | 2<br>3       | B<br>A          | GL<br>GL   | SO<br>AO   | AT<br>AT     | RM<br>RM     | PA<br>PA         | 5.0<br>5.0  | V<br>V | V<br>V   | C<br>C        | C<br>C        | C<br>C | Y<br>Y         | N<br>N | AC<br>AC | N | MK44D | 15         |                   |                         |       |
|                                                                                                           |                  |                   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               |        |                |        |          |   |       |            |                   |                         |       |
|                                                                                                           |                  |                   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               |        |                |        |          |   |       |            |                   |                         |       |
|                                                                                                           |                  |                   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               |        |                |        |          |   |       |            |                   |                         |       |



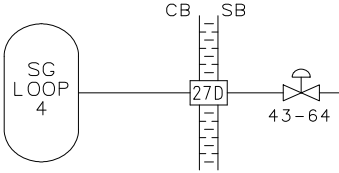
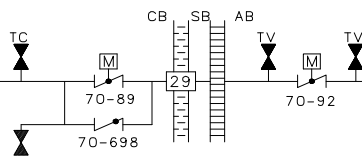
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

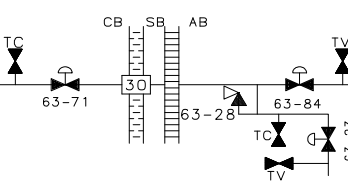
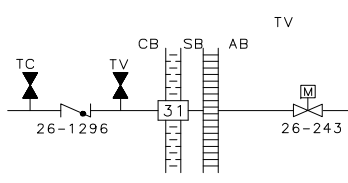
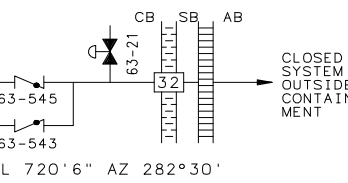
| DETAILS                                                                                                     | PENETRATION DATA      |                   |               |             |                 |                                            |                |              |                 |            | VALVE DATA |              |              |                  |             |        |          |               |               |      |                |            |                   |                         |  |  |  |  | NOTES |
|-------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|---------------|-------------|-----------------|--------------------------------------------|----------------|--------------|-----------------|------------|------------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|------------|-------------------|-------------------------|--|--|--|--|-------|
|                                                                                                             | DWG NUMBER            | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION  | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR   | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |            |                   |                         |  |  |  |  |       |
|                                                                                                             |                       |                   |               |             |                 |                                            |                |              |                 |            |            |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |  |  |  |  |       |
|  <p>EL 723'6" AZ 293°</p>   | 47W331-3              | 56                | A             | C           | B               | ILRT SENSOR LINE (52) TEST INSTRUMENTATION | CB SB          | 505 501      | — GL GL         | — M M      | — LM LM    | — — —        | — — —        | C C              | V V         | C C    | — —      | O O           | N N           | N N  | AC AC          | N          | —                 |                         |  |  |  |  |       |
|  <p>EL 723'6" AZ 293°</p>   | 47W331-3              | 56                | A             | C           | B               | ILRT SENSOR LINE (52) TEST INSTRUMENTATION | CB SB          | 504 500      | — GL GL         | — M M      | — LM LM    | — — —        | — — —        | C C              | V V         | C C    | — —      | O O           | N N           | N N  | AC AC          | N          | —                 |                         |  |  |  |  |       |
|  <p>EL 723'6" AZ 293°</p> | 47W600-89<br>47W331-3 | —                 | A             | C           | B               | dP SENSOR (30)                             | SB             | SNSR         | — — —           | — — —      | — — —      | — — —        | — — —        | O —              | O —         | — C    | N N      | N A           | E             | —    |                | 12, 13     |                   |                         |  |  |  |  |       |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

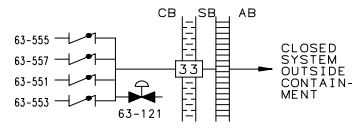
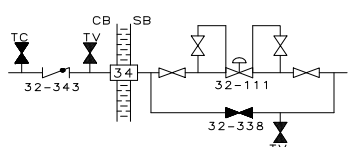
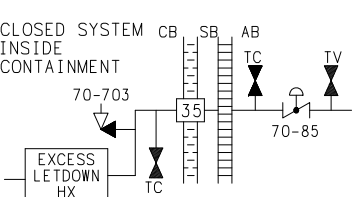
| PENETRATION DATA                                                                                            |            |         |           |               |             |                                                       |                                           |                |              | VALVE DATA      |            |          |              |              |                  |             |        |          |               |               |      |     |   |   |   |   |        |    |                |            |                   |                         |       |
|-------------------------------------------------------------------------------------------------------------|------------|---------|-----------|---------------|-------------|-------------------------------------------------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|-----|---|---|---|---|--------|----|----------------|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                     | DWG NUMBER | GEN DES | CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS                                       | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |     |   |   |   |   |        |    | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                             |            |         |           |               |             |                                                       |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | ESF | A | N | C | C | C      | Y  |                |            |                   |                         |       |
|  <p>EL 723'6" AZ 292°</p>   | 47W625-2   | 56      | W         | H             | A<br>B<br>D | STM GEN NO. 1 SAMPLE (43)<br>SAMPLE AND WATER QUALITY | SB                                        | 55             | A            | GL              | AO         | AT       | RM           | PA           | 10.0             | V           | V      | C        | C             | C             | Y    | N   | A | N |   |   | MK046M | 22 |                |            |                   |                         |       |
|  <p>EL 723'6" AZ 292°</p>   | 47W625-2   | 56      | W         | H             | AB<br>D     | STM GEN NO. 2 SAMPLE (43)                             | SB                                        | 58             | A            | GL              | AO         | AT       | RM           | PA           | 10.0             | V           | V      | C        | C             | C             | Y    | N   | A | N |   |   | MK46M  | 22 |                |            |                   |                         |       |
|  <p>EL 723'6" AZ 292°</p> | 47W625-2   | 56      | W         | H             | AB<br>D     | STM GEN NO. 3 SAMPLE (43)                             | SB                                        | 61             | A            | GL              | AO         | AT       | RM           | PA           | 10.0             | V           | V      | C        | C             | C             | Y    | N   | A | N |   |   | MK46M  | 22 |                |            |                   |                         |       |

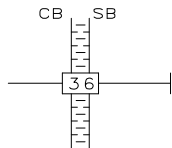
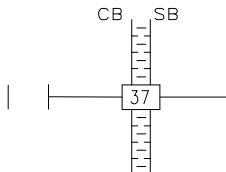
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                            |                      |                   |   |    |         |                                        |                |                 |                                           | VALVE DATA     |                |                |                 |               |                   |              |              |                  |               |             |              |             |                |   |       |    |   |   |                   |                         |
|-------------------------------------------------------------------------------------------------------------|----------------------|-------------------|---|----|---------|----------------------------------------|----------------|-----------------|-------------------------------------------|----------------|----------------|----------------|-----------------|---------------|-------------------|--------------|--------------|------------------|---------------|-------------|--------------|-------------|----------------|---|-------|----|---|---|-------------------|-------------------------|
| DETAILS                                                                                                     | DWG NUMBER           | GEN DES CRITERION |   |    |         | PROCESS FLUID                          | FLUID STATE    | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION |                | VALVE LOCATION | VALVE NUMBER   | ESF POWER TRAIN | VALVE TYPE    | ACTUATOR          | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME   | NORMAL      | VALVE STATUS |             |                |   |       |    |   |   |                   |                         |
|                                                                                                             |                      | W                 | H | AB | D       |                                        |                |                 | N                                         | A              |                |                |                 |               |                   |              |              |                  |               |             | Y            | C           | C              | C | Y     | N  | A | N | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |
|  <p>EL 723'6" AZ 292°</p>   | 47W625-2             | 56                | W | H  | AB<br>D | STM GEN<br>NO. 4<br>SAMPLE<br>(43)     | SB             | 64              | A                                         | GL             | AO             | AT             | RM              | PA            | 10.0              | V            | V            | C                | C             | C           | Y            | N           | A              | N | MK46M | 22 |   |   |                   |                         |
| <p>X-28</p> <p>EL 721' AZ 287°30'</p>                                                                       | 47W625-15            | -                 | - | -  | -       | SPARE                                  | -              | -               | -                                         | -              | -              | -              | -               | -             | -                 | -            | -            | -                | -             | -           | -            | -           | -              | A | -     | -  |   |   |                   |                         |
|  <p>EL 720 AZ 288°30'</p> | 47W859-2<br>47W859-3 | 56                | W | C  | AD      | CCS FROM<br>RC PUMP<br>COOLERS<br>(70) | CB<br>AB<br>CB | 89<br>92<br>698 | B<br>A<br>-                               | BF<br>BF<br>CK | MO<br>MO<br>-  | AT<br>AT<br>SA | -<br>-<br>-     | PB<br>PB<br>- | 66.0<br>66.0<br>- | O<br>O<br>O  | O<br>O<br>O  | C<br>C<br>V      | AI<br>AI<br>- | C<br>C<br>- | Y<br>Y<br>N  | N<br>N<br>N | AC<br>AC<br>AC | N | MK50  | 8  |   |   |                   |                         |

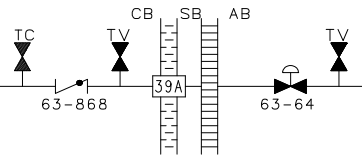
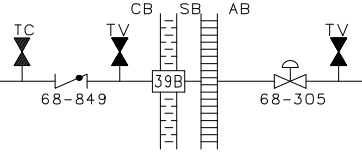
| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                                      |            |                   |               |             |                 |                                           |                      |                      |                  |                      |                     |                      |                   |                     |                           |                  |                  |                  |                  |                  |                  |                  |                      |      |      |            |                   |                         |       |
|------------------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------------|----------------------|------------------|----------------------|---------------------|----------------------|-------------------|---------------------|---------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|------|------|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                                                                 |            |                   |               |             |                 |                                           |                      |                      |                  |                      |                     |                      |                   | VALVE DATA          |                           |                  |                  |                  |                  |                  |                  |                  |                      |      |      |            |                   |                         |       |
| DETAILS                                                                                                          | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION       | VALVE NUMBER         | ESF POWER TRAIN  | VALVE TYPE           | ACTUATOR            | PRI ACT MODE         | SEC ACT MODE      | ISOLATION SIGNAL    | STROKE TIME               | NORMAL           | SHUTDOWN         | VALVE STATUS     |                  |                  |                  |                  |                      |      |      | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                                  |            |                   |               |             |                 |                                           |                      |                      |                  |                      |                     |                      |                   |                     |                           |                  |                  | POST-ACCIDENT    | POWER FAILURE    | ILRT             | POS IND IN MCR   | ESF              | AC                   | Y    | N    |            |                   |                         |       |
|  <p>EL 720' 6" AZ 291° 30'</p>   | 47W811-1   | 56                | W             | C           | BD              | ACCUM TO HOLDUP TANKS (63)                | CB<br>AB<br>AB<br>AB | 71<br>84<br>23<br>28 | A<br>B<br>B<br>- | GL<br>GL<br>GL<br>RV | AO<br>AO<br>AO<br>- | AT<br>AT<br>AT<br>SA | RM<br>-<br>-<br>- | PA<br>PA<br>PA<br>- | 10.0<br>10.0<br>10.0<br>- | V<br>V<br>V<br>C | V<br>V<br>V<br>C | C<br>C<br>C<br>V | C<br>C<br>C<br>- | C<br>C<br>C<br>C | Y<br>Y<br>Y<br>N | N<br>N<br>N<br>N | AC<br>AC<br>AC<br>AC | N    | AS30 | 9          |                   |                         |       |
|  <p>EL 722 AZ 289° 30'</p>       | 47W850-9   | 56                | A             | C           | AB<br>D         | FIRE PROECTION (26)                       | CB<br>AB             | 1296<br>243          | -<br>A           | CK<br>GA             | -<br>MO             | SA<br>AT             | -<br>RM           | -<br>PA             | -<br>20.0                 | C<br>O           | C<br>O           | C<br>C           | -<br>C           | C<br>C           | N<br>Y           | N<br>N           | AC<br>AC             | N    | MK49 |            |                   |                         |       |
|  <p>EL 720' 6" AZ 282° 30'</p> | 47W811-1   | 55                | W             | C           | BD              | SIT TO HOT LEGS (63)                      | CB<br>CB<br>CB       | 545<br>543<br>21     | -<br>-<br>-      | CK<br>CK<br>GL       | -<br>-<br>AO        | SA<br>SA<br>RM       | -<br>-<br>-       | -<br>-<br>-         | C<br>C<br>V               | C<br>C<br>V      | V<br>V<br>C      | -<br>-<br>C      | -<br>-<br>C      | N<br>N<br>Y      | Y<br>Y<br>N      | A<br>A<br>A      | E                    | AS32 |      |            |                   |                         |       |

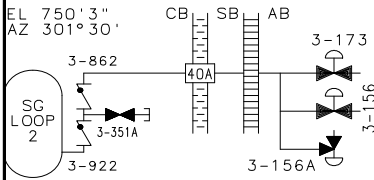
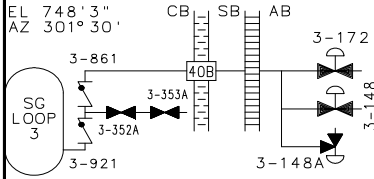
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                                 |             |         |           |               |             |                               |                                                |                       |                            | VALVE DATA             |                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                |   |      |      |   |      |            |                   |                         |       |
|------------------------------------------------------------------------------------------------------------------|-------------|---------|-----------|---------------|-------------|-------------------------------|------------------------------------------------|-----------------------|----------------------------|------------------------|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------|---|------|------|---|------|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                          | DWG NUMBER  | GEN DES | CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS               | SYSTEM NUMBER AND PENETRATION DESCRIPTION      | VALVE LOCATION        | VALVE NUMBER               | ESF POWER TRAIN        | VALVE TYPE                 | ACTUATOR              | PRI ACT MODE          | SEC ACT MODE          | ISOLATION SIGNAL      | STROKE TIME           | NORMAL                | SHUTDOWN              | VALVE STATUS          |                       |                       |                       |                |   |      |      |   |      | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                                  |             |         |           |               |             |                               |                                                |                       |                            |                        |                            |                       |                       |                       |                       |                       |                       |                       | POST-ACCIDENT         | POWER FAILURE         | ILRT                  | POS IND IN MCR        | ESF            | Y | N    | A    | E | AS33 |            |                   |                         |       |
|  <p>EL 720' 6" AZ 277° 30'</p>   | 47W811-1    | 55      | W         | C             | BD          | SI TO LOW HEAD SI (63)        | CB 553<br>CB 551<br>CB 557<br>CB 555<br>CB 121 | —<br>—<br>—<br>—<br>— | CK<br>CK<br>CK<br>CK<br>GL | —<br>—<br>—<br>—<br>AO | SA<br>SA<br>SA<br>SA<br>RM | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— | —<br>—<br>—<br>—<br>— | C<br>C<br>C<br>C<br>V | C<br>C<br>C<br>C<br>V | V<br>—<br>—<br>—<br>C | —<br>—<br>—<br>—<br>C | N<br>N<br>N<br>N<br>Y | Y<br>Y<br>Y<br>Y<br>N | A<br>A<br>A<br>A<br>A | E              |   | AS33 |      |   |      |            |                   |                         |       |
|  <p>EL 720' 6" AZ 299° 30'</p>   | 47W848-1    | 56      | A         | C             | AB D        | CONTROL AIR I & C (32)        | CB 343<br>SB 111<br>SB 338                     | —<br>A<br>—           | CK<br>GL<br>GL             | —<br>AO<br>M           | SA<br>AT<br>LM             | —<br>RM<br>—          | —<br>PB<br>—          | —<br>10.0<br>—        | —<br>—<br>—           | O<br>O<br>C           | O<br>O<br>C           | C<br>C<br>C           | —<br>—<br>AI          | —<br>—<br>C           | N<br>Y<br>N           | N<br>N<br>N           | AC<br>AC<br>AC | N |      | MK43 |   | 10   |            |                   |                         |       |
|  <p>EL 720' 6" AZ 301° 30'</p> | 47W859-2, 3 | 57      | W         | C             | AD          | CCS FROM EXCESS LETDN HX (70) | CB 703<br>AB 85                                | —<br>B                | RV<br>BF                   | —<br>AO                | SA<br>AT                   | —<br>RM               | —<br>PA               | —<br>10.0             | —<br>—                | V<br>V                | V<br>V                | V<br>C                | C<br>C                | C<br>C                | N<br>Y                | N<br>N                | AC<br>AC       | N |      | MK42 |   | 11   |            |                   |                         |       |

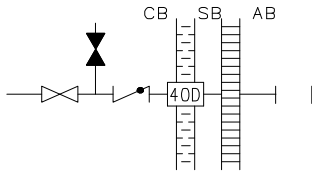
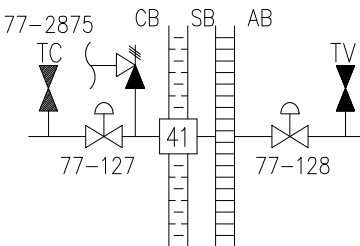
| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                                |             |                   |             |                 |     |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      |              |   |    |   |                |            |                   |                         |       |
|------------------------------------------------------------------------------------------------------------|-------------|-------------------|-------------|-----------------|-----|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|--------------|---|----|---|----------------|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                                                           |             |                   |             |                 |     |                                           |                |              |                 |            |          |              |              |                  | VALVE DATA  |        |          |               |               |      |              |   |    |   |                |            |                   |                         |       |
| DETAILS                                                                                                    | DWG NUMBER  | GEN DES CRITERION |             |                 |     | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | ILRT | VALVE STATUS |   |    |   | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                            |             | PROCESS FLUID     | FLUID STATE | POSS LEAK PATHS | ESF |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      | AB           | N | N  |   |                |            |                   |                         |       |
|  <p>EL 742'6" AZ 280°</p> | 72-4333-310 | -                 | A           | C               | AB  | SG. CHEM. CLEANING                        | SB             | -            | -               | BL         | M        | LM           | -            | -                | -           | C      | V        | C             | -             | C    | N            | N | AB | N |                |            | MK20              |                         |       |
|  <p>EL 771'6" AZ 265°</p> | 47W301-1    | -                 | A           | C               | AB  | MAINT. PORT                               | CB             | -            | -               | BL         | M        | LM           | -            | -                | -           | C      | V        | C             | -             | C    | N            | N | AB | N |                |            | MK14              |                         |       |
| <p>X-38</p> <p>EL 771'6" AZ 268°</p>                                                                       | 48N406      | -                 | -           | -               | -   | SPARE                                     | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | - | A  | - |                |            | -                 |                         |       |

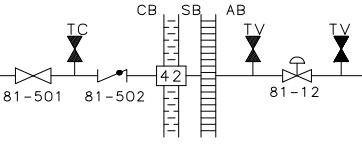
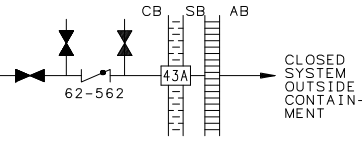
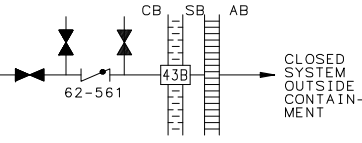
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

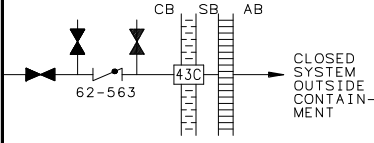
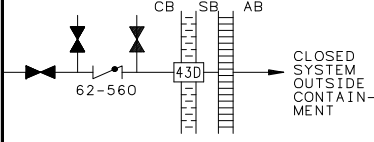
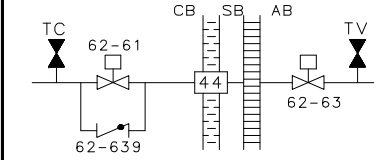
| PENETRATION DATA                                                                                          |            |                   |               |             |                 |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |      |                |     |       |   |            |                   |                         |       |
|-----------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|-----|-------|---|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                   | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |     |       |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                           |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | ESF | AC    | N |            |                   |                         |       |
|  <p>EL 720'6" AZ 280°</p> | 47W830-6   | 56                | N2            | C           | AD              | N2 TO ACCUM (63)                          | CB AB          | 868 64       | - A             | CK GL      | - AO     | SA AT        | - RM         | - PA             | - 10.0      | O V    | O O      | C C           | - C           | - C  | N Y            | N N | AC AC | N | MK55M      |                   |                         |       |
|  <p>EL 720'6" AZ 280°</p> | 47W830-6   | 56                | N2            | C           | AD              | N2 TO PRESS RELIEF TK (68)                | CB AB          | 849 305      | - A             | CK DI      | - AO     | SA AT        | - RM         | - PA             | - 10.0      | O O    | O O      | C C           | - C           | - C  | N Y            | N N | AC AC | N | MK55M      |                   |                         |       |
| <p>X-39C</p> <p>EL 720'6" AZ 280°</p>                                                                     | 47W331-2   | -                 | -             | -           | -               | SPARE                                     | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -              | -   | A     | - | -          |                   |                         |       |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1        |            |                   |               |             |                 |                                           |                |                    |                 |               |                |                |                |                  |             |             |             |               |               |                |             |             |               |               |            |                   |                         |       |
|------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------------|-----------------|---------------|----------------|----------------|----------------|------------------|-------------|-------------|-------------|---------------|---------------|----------------|-------------|-------------|---------------|---------------|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                                   |            |                   |               |             |                 |                                           |                |                    |                 |               |                |                | VALVE DATA     |                  |             |             |             |               |               |                |             |             |               |               |            |                   |                         |       |
| DETAILS                                                                            | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER       | ESF POWER TRAIN | VALVE TYPE    | ACTUATOR       | PRI ACT MODE   | SEC ACT MODE   | ISOLATION SIGNAL | STROKE TIME | NORMAL      | SHUTDOWN    | POST-ACCIDENT | POWER FAILURE | VALVE STATUS   |             |             |               |               | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                    |            |                   |               |             |                 |                                           |                |                    |                 |               |                |                |                |                  |             |             |             |               |               | POS IND IN MCR | ESF         | ILRT        | POWER FAILURE | POST-ACCIDENT |            |                   |                         |       |
| X-39D<br><br>EL 720'6" AZ 280°                                                     | 47W331-2   | -                 | -             | -           | -               | SPARE                                     | -              | -                  | -               | -             | -              | -              | -              | -                | -           | -           | -           | -             | -             | -              | -           | A           | -             | -             |            |                   |                         |       |
|                                                                                    |            |                   |               |             |                 |                                           |                |                    |                 |               |                |                |                |                  |             |             |             |               |               |                |             |             |               |               |            |                   |                         |       |
|    | 47W803-2   | 57                | W             | C           | BC<br>E         | AUX FW<br>(3)                             | AB<br>AB<br>AB | 156<br>156A<br>173 | A<br>A<br>B     | GL<br>A<br>GL | AO<br>AO<br>AO | RM<br>RM<br>RM | LM<br>LM<br>LM | -<br>-<br>-      | -<br>-<br>- | C<br>C<br>C | C<br>C<br>C | V<br>V<br>V   | O<br>C<br>C   | C<br>C<br>C    | Y<br>Y<br>Y | N<br>N<br>N | A<br>A<br>A   | E             | MK9        | 22                |                         |       |
|                                                                                    |            |                   |               |             |                 |                                           |                |                    |                 |               |                |                |                |                  |             |             |             |               |               |                |             |             |               |               |            |                   |                         |       |
|                                                                                    |            |                   |               |             |                 |                                           |                |                    |                 |               |                |                |                |                  |             |             |             |               |               |                |             |             |               |               |            |                   |                         |       |
|  | 47W803-2   | 57                | W             | C           | BC<br>E         | AUX FW<br>(3)                             | AB<br>AB<br>AB | 148<br>148A<br>172 | B<br>B<br>A     | GL<br>A<br>GL | AO<br>AO<br>AO | RM<br>RM<br>RM | LM<br>LM<br>LM | -<br>-<br>-      | -<br>-<br>- | C<br>C<br>C | C<br>C<br>C | V<br>V<br>V   | O<br>C<br>C   | C<br>C<br>C    | Y<br>Y<br>Y | N<br>N<br>N | A<br>A<br>A   | E             | MK11       | 22                |                         |       |
|                                                                                    |            |                   |               |             |                 |                                           |                |                    |                 |               |                |                |                |                  |             |             |             |               |               |                |             |             |               |               |            |                   |                         |       |
|                                                                                    |            |                   |               |             |                 |                                           |                |                    |                 |               |                |                |                |                  |             |             |             |               |               |                |             |             |               |               |            |                   |                         |       |

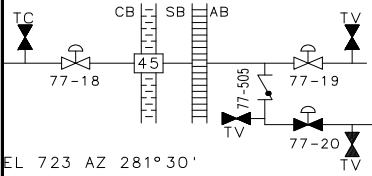
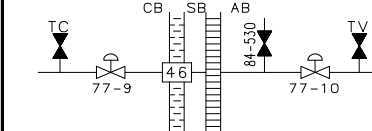
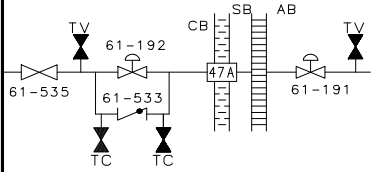


| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                              |                      |                   |           |               |             |                                           |                |                    |                 |                |               |               |               |                  |                   |             |             |               |               |             |                |             |                |   |            |                   |                         |       |
|----------------------------------------------------------------------------------------------------------|----------------------|-------------------|-----------|---------------|-------------|-------------------------------------------|----------------|--------------------|-----------------|----------------|---------------|---------------|---------------|------------------|-------------------|-------------|-------------|---------------|---------------|-------------|----------------|-------------|----------------|---|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                                                         |                      |                   |           |               |             |                                           |                |                    |                 |                |               |               |               | VALVE DATA       |                   |             |             |               |               |             |                |             |                |   |            |                   |                         |       |
| DETAILS                                                                                                  | DWG NUMBER           | GEN DES CRITERION |           |               |             | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER       | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR      | PRI ACT MODE  | SEC ACT MODE  | ISOLATION SIGNAL | STROKE TIME       | NORMAL      | SHUTDOWN    | POST-ACCIDENT | POWER FAILURE | ILRT        | VALVE STATUS   |             |                |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                          |                      | GEN DES           | CRITERION | PROCESS FLUID | FLUID STATE |                                           |                |                    |                 |                |               |               |               |                  |                   |             |             |               |               |             | POS IND IN MCR | ESF         | APP J TEST     |   |            |                   |                         |       |
| X-400<br><br>EL 750'3" AZ 299°30'                                                                        | 48N406               | -                 | -         | -             | -           | SPARE                                     | -              | -                  | -               | -              | -             | -             | -             | -                | -                 | -           | -           | -             | -             | -           | -              | -           | A              | - | -          |                   |                         |       |
| <br>EL 748'3" AZ 299°30' | 47W846-2<br>47W492-2 | -                 | A         | C             | AD          | SERVICE AIR (33)                          | AB             | -                  | -               | BL             | M             | LM            | -             | -                | -                 | C           | C           | C             | -             | C           | -              | N           | AB             | N | MK12       |                   |                         |       |
| <br>EL 719'6" AZ 294°  | 47W851-1             | 56                | W         | C             | AD          | FL SUMP PUMP DISCH (77)                   | CB<br>AB<br>CB | 127<br>128<br>2875 | B<br>A<br>-     | BA<br>BA<br>RV | AO<br>AO<br>- | AT<br>AT<br>- | RM<br>RM<br>- | PA<br>PA<br>-    | 10.0<br>10.0<br>- | O<br>O<br>C | O<br>O<br>C | C<br>C<br>V   | C<br>C<br>C   | C<br>C<br>C | Y<br>Y<br>N    | N<br>N<br>N | AC<br>AC<br>AC | N | MK47       |                   |                         |       |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                                  |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               |        |                |            |                   |                         |      |       |  |
|--------------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|--------|----------------|------------|-------------------|-------------------------|------|-------|--|
| PENETRATION DATA                                                                                             |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              | VALVE DATA       |             |        |          |               |               |        |                |            |                   |                         |      |       |  |
| DETAILS                                                                                                      | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |        |                |            |                   |                         |      | NOTES |  |
|                                                                                                              |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT   | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |      |       |  |
|  <p>EL 723'6" AZ 301°</p>    | 47W819-1   | 56                | W             | C           | ABD             | PRESS RLF<br>TK MAKE-UP<br>(81)           | CB<br>AB       | 502<br>12    | -<br>A          | CK<br>DI   | -<br>AO  | SA<br>AT     | -<br>RM      | -<br>PA          | -<br>10.0   | V<br>V | C<br>C   | C<br>C        | -<br>C        | -<br>C | N<br>Y         | N<br>N     | AC<br>AC          | N                       | MK39 |       |  |
|  <p>EL 728'6" AZ 293°30'</p> | 47W809-1   | 55                | W             | C           | AD              | TO RCP<br>SEALS<br>(62)                   | CB             | 562          | -               | CK         | -        | SA           | -            | -                | -           | O      | C        | C             | -             | -      | N              | N          | A                 | N                       | MK31 |       |  |
|  <p>EL 728'6" AZ 292°</p>  | 47W809-1   | 55                | W             | C           | AD              | TO RCP<br>SEALS<br>(62)                   | CB             | 561          | -               | CK         | -        | SA           | -            | -                | -           | O      | C        | C             | -             | -      | N              | N          | A                 | N                       | MK29 |       |  |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                                      |            |                   |               |             |                 |                                           |                |                 |                 |                |               |                |               |                  |                   |              |             |               |               |             |                |             |                   |                         |       |  |  |
|------------------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|-----------------|-----------------|----------------|---------------|----------------|---------------|------------------|-------------------|--------------|-------------|---------------|---------------|-------------|----------------|-------------|-------------------|-------------------------|-------|--|--|
| PENETRATION DATA                                                                                                 |            |                   |               |             |                 |                                           |                |                 |                 |                |               |                |               | VALVE DATA       |                   |              |             |               |               |             |                |             |                   |                         |       |  |  |
| DETAILS                                                                                                          | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER    | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR      | PRI ACT MODE   | SEC ACT MODE  | ISOLATION SIGNAL | STROKE TIME       | VALVE STATUS |             |               |               |             |                |             |                   |                         |       |  |  |
|                                                                                                                  |            |                   |               |             |                 |                                           |                |                 |                 |                |               |                |               |                  |                   | NORMAL       | SHUTDOWN    | POST-ACCIDENT | POWER FAILURE | ILRT        | POS IND IN MCR | APP J TEST  | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |  |  |
|  <p>EL 727' AZ 293° 30'</p>      | 47W809-1   | 55                | W             | C           | AD              | TO RCP SEALS (62)                         | CB             | 563             | -               | CK             | -             | SA             | -             | -                | -                 | O            | C           | C             | -             | -           | N              | N           | A                 | N                       | MK28  |  |  |
|  <p>EL 727' AZ 292°</p>          | 47W809-1   | 55                | W             | C           | AD              | TO RCP SEALS (62)                         | CB             | 560             | -               | CK             | -             | SA             | -             | -                | -                 | O            | C           | C             | -             | -           | N              | N           | A                 | N                       | MK30  |  |  |
|  <p>EL 727' 6" AZ 281° 30'</p> | 47W809-1   | 55                | W             | C           | AD              | FROM RCP SEALS (62)                       | CB<br>AB<br>CB | 61<br>63<br>639 | B<br>A<br>-     | GA<br>CA<br>CK | MO<br>MO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PA<br>PA<br>-    | 10.0<br>10.0<br>- | O<br>O<br>O  | V<br>V<br>O | C<br>C<br>V   | AI<br>AI<br>- | C<br>C<br>- | Y<br>Y<br>N    | N<br>N<br>N | AC<br>AC<br>AC    | N                       | MK37  |  |  |

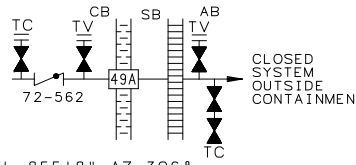
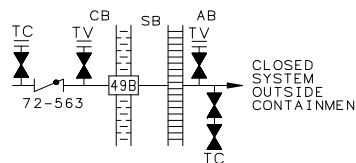
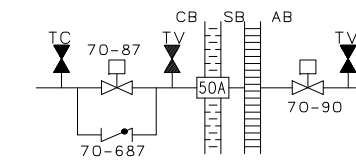
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

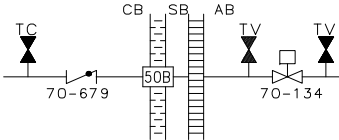
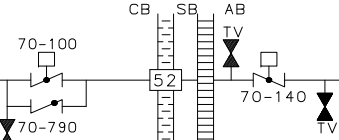
| PENETRATION DATA                                                                                             |                      |                   |               |             |                 |                                             |                |                   |                 | VALVE DATA     |                |                |                |                  |                      |             |             |               |               |             |                |               |                |      |                |               |               |            |                   |                         |       |
|--------------------------------------------------------------------------------------------------------------|----------------------|-------------------|---------------|-------------|-----------------|---------------------------------------------|----------------|-------------------|-----------------|----------------|----------------|----------------|----------------|------------------|----------------------|-------------|-------------|---------------|---------------|-------------|----------------|---------------|----------------|------|----------------|---------------|---------------|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                      | DWG NUMBER           | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION   | VALVE LOCATION | VALVE NUMBER      | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR       | PRI ACT MODE   | SEC ACT MODE   | ISOLATION SIGNAL | STROKE TIME          | NORMAL      | SHUTDOWN    | VALVE STATUS  |               |             |                |               |                |      |                |               |               | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                              |                      |                   |               |             |                 |                                             |                |                   |                 |                |                |                |                |                  |                      |             |             | POST-ACCIDENT | POWER FAILURE | ILRT        | POS IND IN MCR | POST-ACCIDENT | POWER FAILURE  | ILRT | POS IND IN MCR | POST-ACCIDENT | POWER FAILURE |            |                   |                         |       |
|  <p>EL 723 AZ 281° 30'</p>   | 47W830-1             | 56                | N2            | C           | BD              | RC DRAIN<br>TK AND PRT<br>TO VH<br>(77)     | CB<br>AB<br>AB | 18<br>19<br>20    | B<br>A<br>A     | DI<br>DI<br>DI | AO<br>AO<br>AO | AT<br>AT<br>AT | RM<br>RM<br>RM | PA<br>PA<br>PA   | 10.0<br>10.0<br>10.0 | O<br>O<br>V | O<br>O<br>O | C<br>C<br>C   | C<br>C<br>C   | C<br>C<br>C | Y<br>Y<br>Y    | N<br>N<br>N   | AC<br>AC<br>AC | N    | AS45           |               |               |            |                   |                         |       |
|  <p>EL 723 AZ 278°</p>       | 47W830-1<br>47W809-7 | 56                | W             | C           | BD              | RC DRAIN<br>TK PUMP<br>DISCHARGE<br>(77/84) | CB<br>AB<br>AB | 9<br>10<br>530    | B<br>A<br>-     | DI<br>DI<br>GL | AO<br>AO<br>M  | AT<br>AT<br>LM | RM<br>RM<br>-  | PA<br>PA<br>-    | 10.0<br>10.0<br>-    | O<br>O<br>C | O<br>O<br>C | C<br>C<br>C   | C<br>C<br>-   | C<br>C<br>C | Y<br>Y<br>N    | N<br>N<br>N   | AC<br>AC<br>AC | N    | AS46           | 18            |               |            |                   |                         |       |
|  <p>EL 808' 6" AZ 293°</p> | 47W814-2             | 56                | G             | C           | BD              | GLYCOL<br>SUPPLY<br>(61)                    | CB<br>AB<br>CB | 192<br>191<br>533 | B<br>A<br>-     | DI<br>DI<br>CK | AO<br>AO<br>-  | AT<br>AT<br>SA | RM<br>RM<br>-  | PA<br>PA<br>-    | 30.0<br>30.0<br>-    | O<br>O<br>O | O<br>O<br>O | C<br>C<br>V   | C<br>C<br>-   | O<br>O<br>O | Y<br>Y<br>N    | N<br>N<br>N   | C<br>C<br>C    | N    | MK25           | 8             |               |            |                   |                         |       |

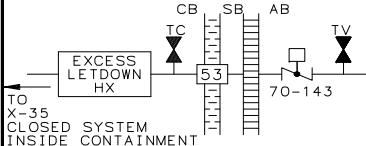
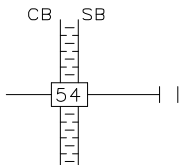
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA |            |                   |               |             |                 |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |      |                |     |     |     |     |            |                   |                         |       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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| DETAILS          | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |     |     |     |     | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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|                  |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | ESF | ESF | ESF | ESF |            |                   |                         |       | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF | ESF |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| DETAILS                                                                            | PENETRATION DATA     |                   |               |             |                 |                                           |                |                 |                 |                | VALVE DATA    |               |               |                  |                   |             |             |               |               |                |             |             |                |   |                   |                         |       |
|------------------------------------------------------------------------------------|----------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|-----------------|-----------------|----------------|---------------|---------------|---------------|------------------|-------------------|-------------|-------------|---------------|---------------|----------------|-------------|-------------|----------------|---|-------------------|-------------------------|-------|
|                                                                                    | DWG NUMBER           | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER    | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR      | PRI ACT MODE  | SEC ACT MODE  | ISOLATION SIGNAL | STROKE TIME       | NORMAL      | SHUTDOWN    | VALVE STATUS  |               |                |             |             |                |   | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                    |                      |                   |               |             |                 |                                           |                |                 |                 |                |               |               |               |                  |                   |             |             | POST-ACCIDENT | POWER FAILURE | POS IND IN MCR | APP J TEST  | ILRT        | Y              | A |                   |                         |       |
|    | 47W812-1             | 56                | W             | C           | AD              | RHR SPRAY (72)                            | CB             | 562             | -               | CK             | -             | SA            | -             | -                | -                 | C           | C           | V             | -             | -              | N           | Y           | A              | E | MK2               | 26                      |       |
|    | 47W812-1             | 56                | W             | C           | AD              | RHR SPRAY (72)                            | CB             | 563             | -               | CK             | -             | SA            | -             | -                | -                 | C           | C           | V             | -             | -              | N           | Y           | A              | E | MK1               | 26                      |       |
|  | 47W859-3<br>47W859-2 | 56                | W             | C           | AD              | RCP THERM BARRIER RETURN (70)             | CB<br>AB<br>CB | 87<br>90<br>687 | B<br>A<br>-     | GA<br>GA<br>CK | MO<br>MO<br>- | AT<br>AT<br>- | RM<br>RM<br>- | PB<br>PB<br>-    | 66.0<br>66.0<br>- | O<br>O<br>O | O<br>O<br>V | C<br>C<br>V   | AI<br>AI<br>- | C<br>C<br>-    | Y<br>Y<br>N | N<br>N<br>N | AC<br>AC<br>AC | N | MK16              | 8                       |       |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                                      |                      |                   |   |    |               |                                        |                 |                                           |                |                |                 |                |               |               |                   |                  |             |             |               |               |               |             |                |   |   |      |            |                   |                         |       |
|------------------------------------------------------------------------------------------------------------------|----------------------|-------------------|---|----|---------------|----------------------------------------|-----------------|-------------------------------------------|----------------|----------------|-----------------|----------------|---------------|---------------|-------------------|------------------|-------------|-------------|---------------|---------------|---------------|-------------|----------------|---|---|------|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                                                                 |                      |                   |   |    |               |                                        |                 |                                           |                |                |                 |                |               | VALVE DATA    |                   |                  |             |             |               |               |               |             |                |   |   |      |            |                   |                         |       |
| DETAILS                                                                                                          | DWG NUMBER           | GEN DES CRITERION |   |    | PROCESS FLUID | FLUID STATE                            | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER   | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR      | PRI ACT MODE  | SEC ACT MODE      | ISOLATION SIGNAL | STROKE TIME | NORMAL      | SHUTDOWN      | POST-ACCIDENT | POWER FAILURE | ILRT        | VALVE STATUS   |   |   |      | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                                  |                      | W                 | C | AD |               |                                        |                 |                                           |                |                |                 |                |               |               |                   |                  |             |             |               |               |               |             | POS IND IN MCR | Y | N | AC   |            |                   |                         |       |
|  <p>EL 734' 6" AZ 299° 30'</p>   | 47W859-3<br>47W859-2 | 56                | W | C  | AD            | RCP THERM<br>BARRIER<br>SUPPLY<br>(70) | CB<br>AB        | 679<br>134                                | -<br>B         | CK<br>GA       | -<br>MO         | SA<br>AT       | -<br>RM       | -<br>PB       | -<br>66.0         | O<br>O           | O<br>O      | C<br>C      | -<br>AI       | -<br>C        | N<br>Y        | N<br>N      | AC<br>AC       | N |   | MK17 |            |                   |                         |       |
|  <p>EL 728' 6" AZ 286° 30'</p>   | 48W406               | -                 | - | -  | -             | SPARE                                  | -               | -                                         | -              | -              | -               | -              | -             | -             | -                 | -                | -           | -           | -             | -             | -             | -           | -              | A | - | -    |            |                   |                         |       |
|  <p>EL 722' 6" AZ 299° 30'</p> | 47W859-2<br>47W859-3 | 56                | W | C  | AD            | CCS TO<br>RCP<br>COOLERS<br>(70)       | AB<br>CB<br>CB  | 140<br>100<br>790                         | B<br>A<br>-    | BF<br>BF<br>CK | MO<br>MO<br>-   | AT<br>AT<br>SA | RM<br>RM<br>- | PB<br>PB<br>- | 66.0<br>66.0<br>- | O<br>O<br>O      | O<br>O<br>O | C<br>C<br>V | AI<br>AI<br>- | C<br>C<br>-   | Y<br>Y<br>N   | N<br>N<br>N | AC<br>AC<br>AC | N |   | MK40 | 8          |                   |                         |       |

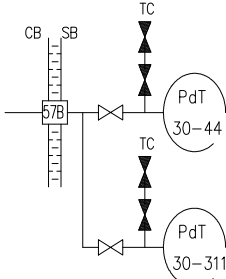
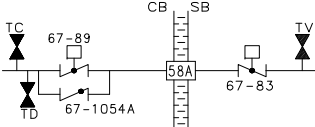
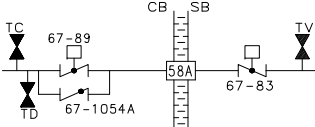
| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                                                                                       |                      |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      |                |            |                   |   |      |    |  |                         |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|------------|-------------------|---|------|----|--|-------------------------|-------|
| PENETRATION DATA                                                                                                                                                  |                      |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  | VALVE DATA  |        |          |               |               |      |                |            |                   |   |      |    |  |                         |       |
| DETAILS                                                                                                                                                           | DWG NUMBER           | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |            |                   |   |      |    |  | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                                                                                   |                      |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS |   |      |    |  |                         |       |
|  <p>TO X-35<br/>CLOSED SYSTEM<br/>INSIDE CONTAINMENT</p> <p>EL 721'6" AZ 301°</p> | 47W859-2<br>47W859-3 | 57                | W             | C           | AD              | CCS TO EXCESS COOLERS LETDN HX (70)       | AB             | 143          | A               | BF         | MO       | AT           | RM           | PA               | 66.0        | V      | C        | C             | AI            | C    | Y              | N          | AC                | N | MK41 | 11 |  |                         |       |
|  <p>EL 740 AZ 90°</p>                                                            | 72-4334-315          | -                 | A             | C           | BC              | IITA RENEWAL                              | SB             | -            | -               | BL         | M        | LM           | -            | -                | -           | C      | V        | C             | -             | O    | N              | N          | AB                | N | MK72 | 16 |  |                         |       |
| <p>X-55</p> <p>EL 771'6" AZ 262°</p>                                                                                                                              | 48W406               | -                 | -             | -           | -               | SPARE                                     | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -              | -          | A                 | - | -    |    |  |                         |       |



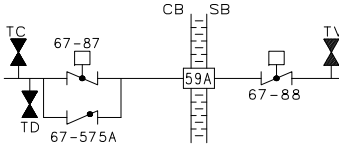
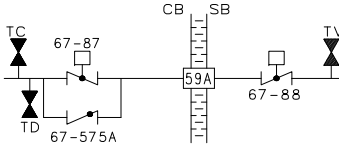
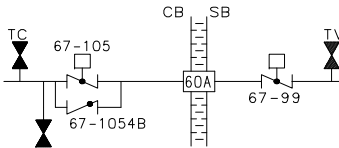
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA |            |                   |               |             |                 |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |      |                |     |    |   |   |    |   |            |                   |                         |       |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |  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|------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|-----|----|---|---|----|---|------------|-------------------|-------------------------|-------|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|-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| DETAILS          | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |     |    |   |   |    |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |   |    |   |  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|                  |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | ESF | AC | Y | N | AC | Y |            |                   |                         |       | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N | AC | Y | N |

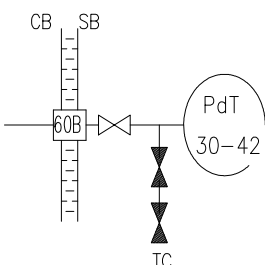
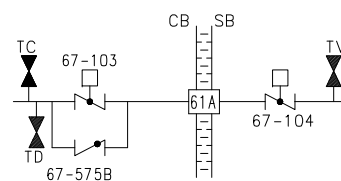
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| DETAILS                                                                             | PENETRATION DATA |                   |               |             |                 |                                           |                |              |                 |            | VALVE DATA |              |              |                  |             |        |          |               |               |       |                |       |          |       |            |                   |                         |       |
|-------------------------------------------------------------------------------------|------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|------------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|-------|----------------|-------|----------|-------|------------|-------------------|-------------------------|-------|
|                                                                                     | DWG NUMBER       | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR   | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |       |                |       |          |       | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                     |                  |                   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT  | POS IND IN MCR | AC    | Y        | N     |            |                   |                         |       |
|    | 47W600-89        | -                 | A             | C           | B               | dP SENSOR (30)                            | SB             | SNSR         | -               | -          | -          | -            | -            | -                | -           | O      | O        | O             | -             | -     | -              | N     | A        | E     | -          | 12                |                         |       |
|     | 47W845-3         | 56                | W             | C           | AB DE           | LWR CONT ERCW SUPPLY (67)                 | CB SB CB       | 1054A 83 89  | - B A           | CK BF BF   | - MO MO    | SA AT AT     | - RM RM      | - PB PB          | - 66.0 66.0 | O O O  | O O O    | V C C         | - AI AI       | - C C | N Y Y          | N N N | AC AC AC | N     | MK79       |                   |                         |       |
|     | 47W600-75        | 54                | W             | C           | BD              | RCS PRESSURE SENSOR (68)                  | -              | -            | -               | -          | -          | -            | -            | -                | -           | O      | O        | O             | -             | N     | N              | A     | E        | MK126 | 28         |                   |                         |       |
|  |                  |                   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               |       |                |       |          |       |            |                   |                         |       |

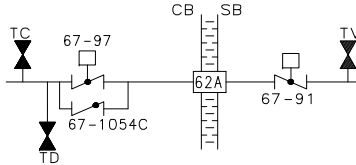
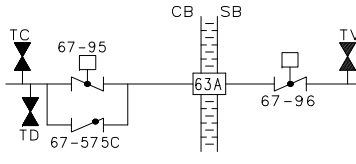
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                          |            |                   |               |             |                 |                                           |                |                    |                 | VALVE DATA     |               |                |                |                  |                   |             |             |               |               |             |                |             |                   |                         |       |              |  |  |  |
|-----------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------------|-----------------|----------------|---------------|----------------|----------------|------------------|-------------------|-------------|-------------|---------------|---------------|-------------|----------------|-------------|-------------------|-------------------------|-------|--------------|--|--|--|
| DETAILS                                                                                                   | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER       | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR      | PRI ACT MODE   | SEC ACT MODE   | ISOLATION SIGNAL | STROKE TIME       | NORMAL      | SHUTDOWN    | POST-ACCIDENT | POWER FAILURE | ILRT        | POS IND IN MCR | APP J TEST  | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |              |  |  |  |
|                                                                                                           |            |                   |               |             |                 |                                           |                |                    |                 |                |               |                |                |                  |                   |             |             |               |               |             |                |             |                   |                         |       | VALVE STATUS |  |  |  |
|  <p>EL 720 AZ 8° 30'</p>  | 47W845-3   | 56                | W             | C           | AB<br>DE        | LWR CONT<br>ERCW<br>RETURN<br>(67)        | CB<br>SB<br>CB | 87<br>88<br>575A   | A<br>B<br>-     | BF<br>BF<br>CK | MO<br>MO<br>- | AT<br>AT<br>SA | RM<br>RM<br>-  | PB<br>PB<br>-    | 66.0<br>66.0<br>- | O<br>O<br>O | O<br>O<br>O | C<br>C<br>V   | AI<br>AI<br>- | C<br>C<br>- | Y<br>Y<br>N    | N<br>N<br>N | AC<br>AC<br>AC    | N                       | MK78  | 8            |  |  |  |
|  <p>EL 720 AZ 14° 30'</p> | 48W406     | -                 | -             | -           | -               | SPARE                                     | -              | -                  | -               | -              | -             | -              | -              | -                | -                 | -           | -           | -             | -             | -           | -              | A           | -                 | -                       | -     | -            |  |  |  |
|  <p>EL 720 AZ 173°</p>  | 47W845-3   | 56                | W             | C           | AB<br>DE        | LWR CONT<br>ERCW<br>SUPPLY<br>(67)        | CB<br>SB<br>CB | 1054B<br>99<br>105 | -<br>A<br>B     | CK<br>BF<br>BF | -<br>MO<br>MO | SA<br>AT<br>AT | RM<br>RM<br>RM | PB<br>PB<br>PB   | -<br>66.0<br>66.0 | O<br>O<br>O | O<br>O<br>O | V<br>C<br>C   | -<br>AI<br>AI | -<br>C<br>C | N<br>Y<br>Y    | N<br>N<br>N | AC<br>AC<br>AC    | N                       | MK77  | 8            |  |  |  |

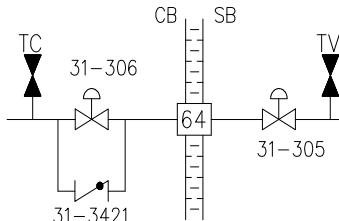
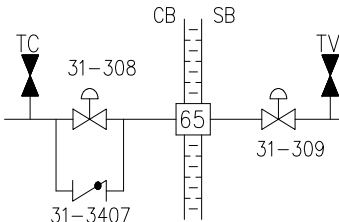
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| DETAILS                                                                                                         | PENETRATION DATA |                   |               |             |                 |                                           |                |                    |                 |                | VALVE DATA    |                |               |                  |                   |             |             |               |               |             |                |             |                |   |      |            |                   |                         |       |
|-----------------------------------------------------------------------------------------------------------------|------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------------|-----------------|----------------|---------------|----------------|---------------|------------------|-------------------|-------------|-------------|---------------|---------------|-------------|----------------|-------------|----------------|---|------|------------|-------------------|-------------------------|-------|
|                                                                                                                 | DWG NUMBER       | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER       | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR      | PRI ACT MODE   | SEC ACT MODE  | ISOLATION SIGNAL | STROKE TIME       | NORMAL      | SHUTDOWN    | VALVE STATUS  |               |             |                |             |                |   |      | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                                 |                  |                   |               |             |                 |                                           |                |                    |                 |                |               |                |               |                  |                   |             |             | POST-ACCIDENT | POWER FAILURE | ILRT        | POS IND IN MCR | ESF         | AC             | Y | N    |            |                   |                         |       |
|  <p>EL 720'-6" AZ 174° 15'</p> | 47W600           | -                 | A             | C           | B               | dP SENSOR (30)                            | SB             | SNSR               | -               | -              | -             | -              | -             | -                | -                 | O           | O           | O             | -             | -           | -              | N           | A              | E | -    | -          | 12                |                         |       |
|  <p>EL 720' AZ 171° 30'</p>     | 47W845-3         | 56                | W             | C           | AB<br>DE        | LWR CONT<br>ERCW<br>RETURN<br>(67)        | CB<br>SB<br>CB | 103<br>104<br>575B | B<br>A<br>-     | BF<br>BF<br>CK | MO<br>MO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PB<br>PB<br>-    | 66.0<br>66.0<br>- | O<br>O<br>O | O<br>O<br>V | C<br>C<br>V   | AI<br>AI<br>- | C<br>C<br>N | Y<br>Y<br>N    | N<br>N<br>N | AC<br>AC<br>AC | N | MK76 | 8          |                   |                         |       |
| <p>X-61B</p> <p>EL 720 AZ 175° 30'</p>                                                                          | 48W406           | -                 | -             | -           | -               | SPARE                                     | -              | -                  | -               | -              | -             | -              | -             | -                | -                 | -           | -           | -             | -             | -           | -              | -           | A              | - | -    | -          |                   |                         |       |

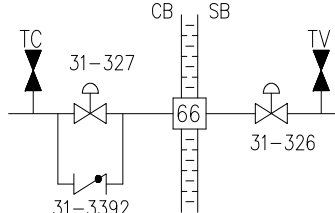
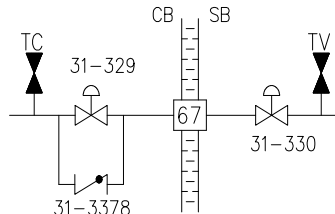
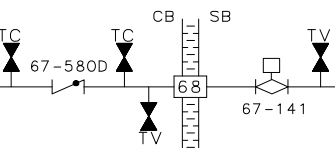
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                             |            |                   |               |             |                 |                                           |                |                   |                 | VALVE DATA     |               |                |               |                  |                   |             |             |               |               |             |                |             |                |   |      |   |    |            |                   |                         |       |
|--------------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|-------------------|-----------------|----------------|---------------|----------------|---------------|------------------|-------------------|-------------|-------------|---------------|---------------|-------------|----------------|-------------|----------------|---|------|---|----|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                      | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER      | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR      | PRI ACT MODE   | SEC ACT MODE  | ISOLATION SIGNAL | STROKE TIME       | NORMAL      | SHUTDOWN    | VALVE STATUS  |               |             |                |             |                |   |      |   |    | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                              |            |                   |               |             |                 |                                           |                |                   |                 |                |               |                |               |                  |                   |             |             | POST-ACCIDENT | POWER FAILURE | ILRT        | POS IND IN MCR | ESF         | AC             | N | Y    | C | AI |            |                   |                         |       |
|  <p>EL 720 AZ 187°</p>       | 47W845-3   | 56                | W             | C           | AB<br>DE        | LWR CONT<br>ERCW<br>SUPPLY<br>(67)        | CB<br>SB<br>CB | 1054C<br>91<br>97 | -<br>B<br>A     | CK<br>BF<br>BF | -<br>MO<br>MO | SA<br>AT<br>AT | -<br>RM<br>RM | -<br>PB<br>PB    | -<br>66.0<br>66.0 | O<br>O<br>O | O<br>O<br>O | V<br>C<br>C   | -<br>AI<br>AI | -<br>C<br>C | N<br>Y<br>Y    | N<br>N<br>N | AC<br>AC<br>AC | N | MK74 | 8 |    |            |                   |                         |       |
| <p>X-62B</p> <p>EL 720 AZ 193°</p>                                                                           | 48W406     | -                 | -             | -           | -               | SPARE                                     | -              | -                 | -               | -              | -             | -              | -             | -                | -                 | -           | -           | -             | -             | -           | -              | -           | A              | - | -    |   |    |            |                   |                         |       |
|  <p>EL 720 AZ 189° 30'</p> | 47W845-3   | 56                | W             | C           | AB<br>DE        | LWR CONT<br>ERCW<br>RETURN<br>(67)        | CB<br>SB<br>CB | 95<br>96<br>575C  | A<br>B<br>-     | BF<br>BF<br>CK | MO<br>MO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PB<br>PB<br>-    | 66.0<br>66.0<br>- | O<br>O<br>O | O<br>O<br>O | C<br>C<br>V   | AI<br>AI<br>- | C<br>C<br>- | Y<br>Y<br>N    | N<br>N<br>N | AC<br>AC<br>AC | N | MK75 | 8 |    |            |                   |                         |       |

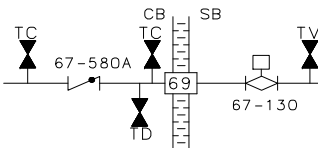
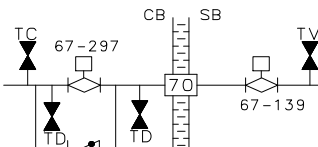
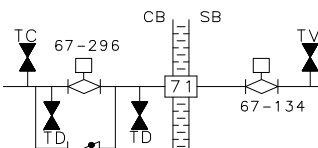
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                    |            |                   |             |                 |                |                                                 |                |                    |                 | VALVE DATA     |               |                |               |                  |                   |             |             |               |               |              |             |             |                |            |                   |                            |       |
|-----------------------------------------------------------------------------------------------------|------------|-------------------|-------------|-----------------|----------------|-------------------------------------------------|----------------|--------------------|-----------------|----------------|---------------|----------------|---------------|------------------|-------------------|-------------|-------------|---------------|---------------|--------------|-------------|-------------|----------------|------------|-------------------|----------------------------|-------|
| DETAILS                                                                                             | DWG NUMBER | GEN DES CRITERION |             |                 |                | SYSTEM NUMBER<br>AND PENETRATION<br>DESCRIPTION | VALVE LOCATION | VALVE NUMBER       | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR      | PRI ACT MODE   | SEC ACT MODE  | ISOLATION SIGNAL | STROKE TIME       | NORMAL      | SHUTDOWN    | POST-ACCIDENT | POWER FAILURE | VALVE STATUS |             |             |                | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG<br>PENETRATION | NOTES |
|                                                                                                     |            | PROCESS FLUID     | FLUID STATE | POSS LEAK PATHS | POS IND IN MCR |                                                 |                |                    |                 |                |               |                |               |                  |                   |             |             |               |               | ILRT         | ESF         | APP J TEST  |                |            |                   |                            |       |
| X-63B<br><br>EL 720 AZ 194°30'                                                                      | 48W406     | -                 | -           | -               | -              | SPARE                                           | -              | -                  | -               | -              | -             | -              | -             | -                | -                 | -           | -           | -             | -             | -            | A           | -           | -              |            |                   |                            |       |
| <br>EL 737 AZ 65°   | 47W865-5   | 56                | W           | C               | AB<br>D        | INST RM<br>CHILL H2O<br>RETURN<br>(31)          | CB<br>SB<br>CB | 306<br>305<br>3421 | A<br>B<br>-     | GL<br>GL<br>CK | AO<br>AO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PA<br>PA<br>-    | 10.0<br>10.0<br>- | O<br>O<br>O | O<br>O<br>O | C<br>C<br>V   | C<br>C<br>-   | C<br>C<br>-  | Y<br>Y<br>N | N<br>N<br>N | AC<br>AC<br>AC | N          | MK92              | 8                          |       |
| <br>EL 738 AZ 65° | 47W865-5   | 56                | W           | C               | AB<br>D        | INST RM<br>CHILL H2O<br>SUPPLY<br>(31)          | CB<br>SB<br>CB | 308<br>309<br>3407 | A<br>B<br>-     | GL<br>GL<br>CK | AO<br>AO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PA<br>PA<br>-    | 10.0<br>10.0<br>- | O<br>O<br>O | O<br>O<br>O | C<br>C<br>V   | C<br>C<br>-   | C<br>C<br>-  | Y<br>Y<br>N | N<br>N<br>N | AC<br>AC<br>AC | N          | MK90              | 8                          |       |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

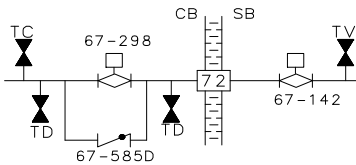
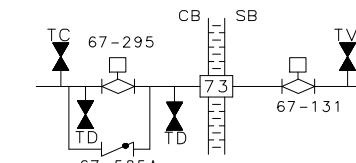
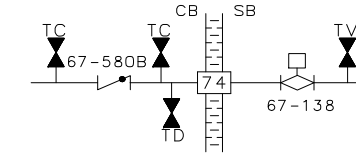
| PENETRATION DATA                                                                                                 |            |                   |               |             |                 |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |       |                |               |               |      |                |               |               |            |                   |                         |       |
|------------------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|-------|----------------|---------------|---------------|------|----------------|---------------|---------------|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                          | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |       |                |               |               |      |                |               |               | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                                  |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT  | POS IND IN MCR | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | POST-ACCIDENT | POWER FAILURE |            |                   |                         |       |
|  <p>EL 737 AZ 104°</p>           | 47W865-5   | 56                | W             | C           | AB D            | INST RM CHILL H2O RETURN (31)             | CB SB CB       | 327 326 3392 | B A -           | GL GL CK   | AO AO -  | AT AT SA     | RM RM -      | PA PA -          | 10.0 10.0 - | O O O  | O O O    | C C V         | C C -         | C C O | Y Y N          | N N N         | AC AC AC      | N    | MK93           | 8             |               |            |                   |                         |       |
|  <p>EL 738 AZ 104°</p>           | 47W865-5   | 56                | W             | C           | AB D            | INST RM CHILL H2O SUPPLY (31)             | CB SB CB       | 329 330 3378 | B A -           | GL GL CK   | AO AO -  | AT AT SA     | RM RM -      | PA PA -          | 10.0 10.0 - | O O O  | O O O    | C C V         | C C -         | C C O | Y Y N          | N N N         | AC AC AC      | N    | MK91           | 8             |               |            |                   |                         |       |
|  <p>EL 794 '6" AZ 301° 15'</p> | 47W845-3   | 56                | W             | C           | AB DE           | UPPER CONT ERCW SUPPLY (67)               | CB SB          | 580D 141     | - B             | CK PG      | - MO     | SA AT        | - RM         | - PB             | - 66.0      | - O    | - O      | - C           | - AI          | - C   | N Y            | N N           | AC AC         | N    | MK88           |               |               |            |                   |                         |       |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

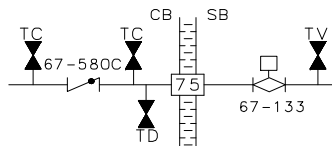
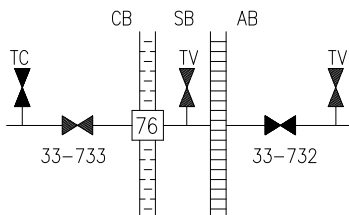
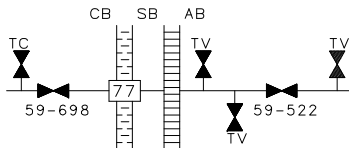
| PENETRATION DATA                                                                                                 |            |         |           |               |             |                                      |                                           |                    |              | VALVE DATA      |               |                |               |               |                   |             |             |             |               |               |             |                |                |            |                   |                         |  |  |       |
|------------------------------------------------------------------------------------------------------------------|------------|---------|-----------|---------------|-------------|--------------------------------------|-------------------------------------------|--------------------|--------------|-----------------|---------------|----------------|---------------|---------------|-------------------|-------------|-------------|-------------|---------------|---------------|-------------|----------------|----------------|------------|-------------------|-------------------------|--|--|-------|
| DETAILS                                                                                                          | DWG NUMBER | GEN DES | CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS                      | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION     | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE    | ACTUATOR       | PRI ACT MODE  | SEC ACT MODE  | ISOLATION SIGNAL  | STROKE TIME | NORMAL      | SHUTDOWN    | VALVE STATUS  |               |             |                |                |            |                   |                         |  |  | NOTES |
|                                                                                                                  |            |         |           |               |             |                                      |                                           |                    |              |                 |               |                |               |               |                   |             |             |             | POST-ACCIDENT | POWER FAILURE | ILRT        | POS IND IN MCR | ESF            | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |  |  |       |
|  <p>EL 796' 6" AZ 301° 15'</p>   | 47W845-3   | 56      | W         | C             | AB<br>DE    | UPPER CONT<br>ERCW<br>SUPPLY<br>(67) | CB<br>SB                                  | 580A<br>130        | -<br>A       | CK<br>PG        | -<br>MO       | SA<br>AT       | -<br>RM       | -<br>PB       | -<br>66.0         | -<br>O      | -<br>O      | -<br>C      | -<br>AI       | -<br>C        | N<br>Y      | N<br>N         | AC<br>AC       | N          | MK86              |                         |  |  |       |
|  <p>EL 798' 6" AZ 301° 15'</p>   | 47W845-3   | 56      | W         | C             | AB<br>DE    | UPPER CONT<br>ERCW<br>RETURN<br>(67) | CB<br>SB<br>CB                            | 297<br>139<br>585B | B<br>A<br>-  | PG<br>PG<br>CK  | MO<br>MO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PB<br>PB<br>- | 66.0<br>66.0<br>- | O<br>O<br>O | O<br>O<br>V | C<br>C<br>V | AI<br>AI<br>- | C<br>C<br>-   | Y<br>Y<br>N | N<br>N<br>N    | AC<br>AC<br>AC | N          | MK84              | 8                       |  |  |       |
|  <p>EL 800' 6" AZ 301° 15'</p> | 47W845-3   | 56      | W         | C             | AB<br>DE    | UPPER CONT<br>ERCW<br>RETURN<br>(67) | CB<br>SB<br>CB                            | 296<br>134<br>585C | A<br>B<br>-  | PG<br>PG<br>CK  | MO<br>MO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PB<br>PB<br>- | 66.0<br>66.0<br>- | O<br>O<br>O | O<br>O<br>V | C<br>C<br>V | AI<br>AI<br>- | C<br>C<br>-   | Y<br>Y<br>N | N<br>N<br>N    | AC<br>AC<br>AC | N          | MK82              | 8                       |  |  |       |



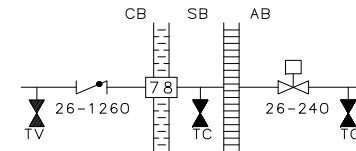
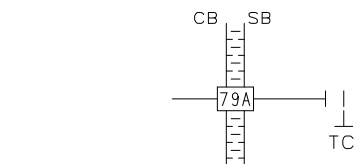
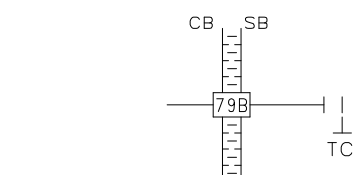
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| DETAILS                                                                                                         | PENETRATION DATA |                   |               |             |                 |                                           |                |                    |                 |                | VALVE DATA    |                |               |                  |                   |             |             |               |               |             |                |             |                |   |      |            |                   |                         |       |    |
|-----------------------------------------------------------------------------------------------------------------|------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------------|-----------------|----------------|---------------|----------------|---------------|------------------|-------------------|-------------|-------------|---------------|---------------|-------------|----------------|-------------|----------------|---|------|------------|-------------------|-------------------------|-------|----|
|                                                                                                                 | DWG NUMBER       | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER       | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR      | PRI ACT MODE   | SEC ACT MODE  | ISOLATION SIGNAL | STROKE TIME       | NORMAL      | SHUTDOWN    | VALVE STATUS  |               |             |                |             |                |   |      | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |    |
|                                                                                                                 |                  |                   |               |             |                 |                                           |                |                    |                 |                |               |                |               |                  |                   |             |             | POST-ACCIDENT | POWER FAILURE | ILRT        | POS IND IN MCR | ESF         | AC             | Y | N    |            |                   |                         |       | AC |
|  <p>EL 793'6" AZ 301° 15'</p>   | 47W845-3         | 56                | W             | C           | AB<br>DE        | UPPER CONT<br>ERCW<br>RETURN<br>(67)      | CB<br>SB<br>CB | 298<br>142<br>585D | B<br>A<br>-     | PG<br>PG<br>CK | MO<br>MO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PB<br>PB<br>-    | 66.0<br>66.0<br>- | O<br>O<br>O | O<br>O<br>O | C<br>C<br>V   | AI<br>AI<br>- | C<br>C<br>- | Y<br>Y<br>N    | N<br>N<br>N | AC<br>AC<br>AC | N | MK89 | 8          |                   |                         |       |    |
|  <p>EL 795'6" AZ 301° 15'</p>   | 47W845-3         | 56                | W             | C           | AB<br>DE        | UPPER CONT<br>ERCW<br>RETURN<br>(67)      | CB<br>SB<br>CB | 295<br>131<br>585A | A<br>B<br>-     | PG<br>PG<br>CK | MO<br>MO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PB<br>PB<br>-    | 66.0<br>66.0<br>- | O<br>O<br>O | O<br>O<br>O | C<br>C<br>V   | AI<br>AI<br>- | C<br>C<br>- | Y<br>Y<br>N    | N<br>N<br>N | AC<br>AC<br>AC | N | MK87 | 8          |                   |                         |       |    |
|  <p>EL 797'6" AZ 301° 15'</p> | 47W845-3         | 56                | W             | C           | AB<br>DE        | UPPER CONT<br>ERCW<br>SUPPLY<br>(67)      | CB<br>SB       | 580B<br>138        | -<br>B          | CK<br>PG       | -<br>MO       | SA<br>AT       | -<br>RM       | -<br>PB          | -<br>66.0         | O<br>O      | O<br>O      | C<br>C        | -<br>AI       | -<br>C      | N<br>Y         | N<br>N      | AC<br>AC       | N | MK85 |            |                   |                         |       |    |

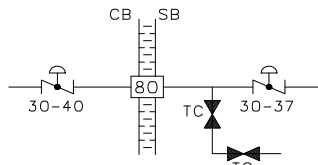
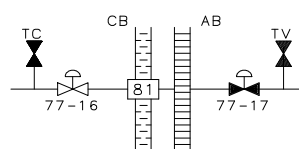
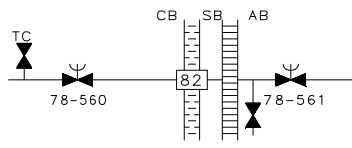
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| DETAILS                                                                                                      | PENETRATION DATA |         |           |               |             |                                      |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |              |               |               |        |                |          |            |                   |                         |  |  | NOTES |
|--------------------------------------------------------------------------------------------------------------|------------------|---------|-----------|---------------|-------------|--------------------------------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|--------------|---------------|---------------|--------|----------------|----------|------------|-------------------|-------------------------|--|--|-------|
|                                                                                                              | DWG NUMBER       | GEN DES | CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS                      | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | VALVE STATUS |               |               |        |                |          |            |                   |                         |  |  |       |
|                                                                                                              |                  |         |           |               |             |                                      |                                           |                |              |                 |            |          |              |              |                  |             |        | SHUTDOWN     | POST-ACCIDENT | POWER FAILURE | ILRT   | POS IND IN MCR | ESF      | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |  |  |       |
|  <p>EL 799'6" AZ 301°15'</p> | 47W845-3         | 56      | W         | C             | AB<br>DE    | UPPER CONT<br>ERCW<br>SUPPLY<br>(67) | CB<br>SB                                  | 580C<br>133    | -<br>A       | CK<br>PG        | -<br>MO    | SA<br>AT | -<br>RM      | -<br>PB      | -<br>66.0        | O<br>O      | O<br>O | C<br>C       | -<br>AI       | -<br>C        | N<br>Y | N<br>N         | AC<br>AC | N          | MK83              |                         |  |  |       |
|  <p>EL 711 AZ 300°</p>       | 47W846-2         | 56      | A         | C             | AD          | SERVICE<br>AIR<br>(33)               | CB<br>AB                                  | 733<br>732     | -<br>-       | DI<br>DI        | M<br>M     | LM<br>LM | -<br>-       | -<br>-       | -<br>-           | C<br>C      | O<br>O | C<br>C       | -<br>-        | C<br>C        | N<br>N | N<br>N         | AC<br>AC | N          | MK97              |                         |  |  |       |
|  <p>EL 710'6" AZ 299°</p>  | 47W856-1         | 56      | W         | C             | AD          | DEMIN<br>WATER<br>(59)               | CB<br>AB                                  | 698<br>522     | -<br>-       | DI<br>DI        | M<br>M     | LM<br>LM | -<br>-       | -<br>-       | -<br>-           | C<br>C      | O<br>O | C<br>C       | -<br>-        | C<br>C        | N<br>N | N<br>N         | AC<br>AC | N          | MK96              |                         |  |  |       |

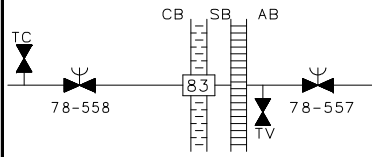
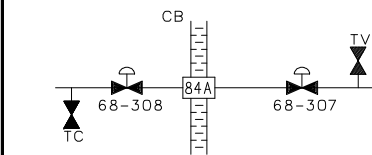
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                      |                      |                   |               |             |                 |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |        |                |        |          |    |      |            |                   |                         |       |
|-------------------------------------------------------------------------------------------------------|----------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|--------|----------------|--------|----------|----|------|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                               | DWG NUMBER           | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |        |                |        |          |    |      | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                       |                      |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT   | POS IND IN MCR | ESF    | AC       | AI | C    |            |                   |                         |       |
| <br>EL 798'9" AZ 301° | 47W850-9             | 56                | A             | C           | AB<br>D         | FIRE PROTECTION (26)                      | CB<br>AB       | 1260<br>240  | —<br>A          | CK<br>GA   | —<br>MO  | SA<br>AT     | —<br>RM      | —<br>PA          | —<br>20.0   | C<br>O | C<br>O   | C<br>C        | —<br>AI       | —<br>C | N<br>Y         | N<br>N | AC<br>AC | N  | MK98 |            |                   |                         |       |
| <br>EL 808 AZ 289°    | 47W814-1<br>47W462-7 | 56                | I             | C           | AB              | ICE BLOWING (61)                          | SB             |              |                 | BL         | M        | LM           | —            | —                | —           | C      | V        | C             | —             | C      | N              | N      | AB       | N  | MK23 |            |                   |                         |       |
| <br>EL 809 AZ 290°  | 47W814-1<br>47W462-7 | 56                | I             | C           | AB              | NEGATIVE RETURN (61)                      | SB             |              |                 | BL         | M        | LM           | —            | —                | —           | C      | V        | C             | —             | C      | N              | Y      | AB       | N  | MK24 |            |                   |                         |       |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| DETAILS                                                                                                     | PENETRATION DATA |                   |               |             |                 |                                           |                |              |                 |            | VALVE DATA |              |              |                  |              |        |              |               |               |        |                |            |          |      |       |        |                   | NOTES |                         |
|-------------------------------------------------------------------------------------------------------------|------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|------------|--------------|--------------|------------------|--------------|--------|--------------|---------------|---------------|--------|----------------|------------|----------|------|-------|--------|-------------------|-------|-------------------------|
|                                                                                                             | DWG NUMBER       | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR   | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME  | NORMAL | VALVE STATUS |               |               |        |                |            |          |      |       |        | ESSENTIAL/NON-ESS |       | SHIELD BLDG PENETRATION |
|                                                                                                             |                  |                   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |              |        | SHUTDOWN     | POST-ACCIDENT | POWER FAILURE | ILRT   | POS IND IN MCR | APP J TEST | ESF      | AC   | N     | Y      |                   |       |                         |
|  <p>EL 720 AZ 286°30'</p>   | 47W866-1         | 56                | A             | C           | AB<br>CE        | LWR COMP<br>PRESS RELIEF<br>(30)          | CB<br>SB       | 40<br>37     | A<br>B          | BF<br>BF   | AO<br>AO   | AT<br>AT     | RM<br>RM     | CV<br>CV         | 4.0<br>4.0   | V<br>V | C<br>C       | C<br>C        | C<br>C        | C<br>C | Y<br>Y         | N<br>N     | AC<br>AC | N    | MK71  | 3,6,14 |                   |       |                         |
|  <p>EL 718 AZ 287°</p>     | 47W830-1         | 56                | A             | C           | AD              | RC DR TK<br>TO GAS<br>ANALYZER<br>(77)    | CB<br>AB       | 16<br>17     | B<br>A          | DI<br>DI   | AO<br>AO   | AT<br>AT     | RM<br>RM     | PA<br>PA         | 10.0<br>10.0 | V<br>V | O<br>O       | C<br>C        | C<br>C        | C<br>C | Y<br>Y         | N<br>N     | AC<br>AC | N    | ASO81 |        |                   |       |                         |
|  <p>EL 718 AZ 282°30'</p> | 47W855-1         | 56                | W             | C           | AB<br>D         | REFUEL CAV<br>PRFCN<br>PUMP SUCT<br>(78)  | CB<br>AB       | 560<br>561   | —<br>—          | DI<br>DI   | M<br>M     | LM<br>LM     | —<br>—       | —<br>—           | C<br>C       | V<br>V | C<br>C       | —<br>—        | C<br>C        | N<br>N | N<br>N         | AC<br>AC   | N        | MK94 |       |        |                   |       |                         |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                           |            |                   |               |             |                 |                                           |                |            |              | VALVE DATA      |            |          |              |              |                  |             |        |              |               |               |        |                |          |   |       |    |  |            |                   |                         |       |
|------------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|--------------|---------------|---------------|--------|----------------|----------|---|-------|----|--|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                    | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION |            | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | VALVE STATUS |               |               |        |                |          |   |       |    |  | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                            |            |                   |               |             |                 |                                           |                |            |              |                 |            |          |              |              |                  |             |        | SHUTDOWN     | POST-ACCIDENT | POWER FAILURE | ILRT   | POS IND IN MCR | ESF      |   |       |    |  |            |                   |                         |       |
|  <p>EL 733 AZ 294°</p>     | 47W855-1   | 56                | W             | C           | AB<br>D         | REFUEL CAV<br>PRFCN<br>PUMP SUCT<br>(78)  | CB<br>AB       | 558<br>557 | —<br>—       | DI<br>DI        | M<br>M     | LM<br>LM | —<br>—       | —<br>—       | —<br>—           | C<br>C      | V<br>V | C<br>C       | —<br>—        | C<br>C        | N<br>N | N<br>N         | AC<br>AC | N | MK95  |    |  |            |                   |                         |       |
|  <p>EL 723 AZ 307° 30'</p> | 47W625-8   | 56                | N             | C           | AD              | P.R.T.<br>TO GAS<br>ANALYZER<br>(68)      | CB<br>SB       | 308<br>307 | B<br>A       | GL<br>GL        | AO<br>AO   | AT<br>AT | RM<br>RM     | PA<br>PA     | 10.0<br>10.0     | V<br>V      | O<br>O | C<br>C       | C<br>C        | C<br>C        | Y<br>Y | N<br>N         | AC<br>AC | N | MK99M |    |  |            |                   |                         |       |
| <p>X-84B</p> <p>EL 723 AZ 307° 30'</p>                                                                     | 47W600-292 | —                 | W             | C           | BD              | RVLIS<br>(68)                             | —              | —          | —            | —               | —          | —        | —            | —            | —                | O           | O      | O            | —             | —             | N      | N              | A        | E | MK101 | 21 |  |            |                   |                         |       |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1 |            |                   |   |   |    |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               |      |                |     |            |                   |                         |       |
|-----------------------------------------------------------------------------|------------|-------------------|---|---|----|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|------------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|-----|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                            |            |                   |   |   |    |               |             |                 |                                           |                |              |                 |            | VALVE DATA |              |              |                  |             |        |          |               |               |      |                |     |            |                   |                         |       |
| DETAILS                                                                     | DWG NUMBER | GEN DES CRITERION |   |   |    | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR   | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |     |            | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                             |            | -                 | W | C | BD |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | ESF | APP J TEST |                   |                         |       |
| X-84C<br><br>EL 723 AZ 307° 30'                                             | 47W600-292 | -                 | W | C | BD | RVLIS (68)    | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | O                | O           | O      | -        | -             | N             | N    | A              | E   | MK101      | 21                |                         |       |
| X-84D<br><br>EL 723 AZ 307° 30'                                             | 47W600-292 | -                 | W | C | BD | RVLIS (68)    | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | O                | O           | O      | -        | -             | N             | N    | A              | E   | MK101      | 21                |                         |       |
| X-85A<br><br>EL 723' AZ 306°                                                | 47W331-2   | -                 | - | - | -  | SPARE         | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | -             | -             | -    | A              | -   | -          |                   |                         |       |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| DETAILS | PENETRATION DATA |                   |               |             |                 |                                           |                |              |                 |            | VALVE DATA |              |              |                  |             |        |          |               |               |      |                |     |   |   |   |   |   |            |                   |                         |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------|------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|------------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|-----|---|---|---|---|---|------------|-------------------|-------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|         | DWG NUMBER       | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR   | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |     |   |   |   |   |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|         |                  |                   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | ESF | C | C | C | C | C |            |                   |                         |       | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |

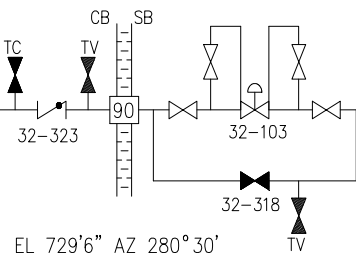
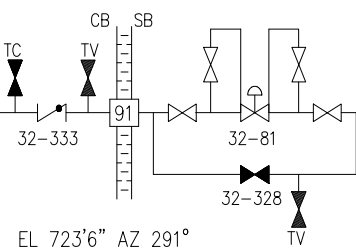
| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1 |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      |                |            |                   |                         |       |              |
|-----------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|------------|-------------------|-------------------------|-------|--------------|
| PENETRATION DATA                                                            |            |                   |               |             |                 |                                           |                |              |                 |            |          |              | VALVE DATA   |                  |             |        |          |               |               |      |                |            |                   |                         |       |              |
| DETAILS                                                                     | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |              |
|                                                                             |            |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      |                |            |                   |                         |       | VALVE STATUS |
| X-86A<br><br>EL 721'-6" AZ 307°30'                                          | 47W625-15  | -                 | -             | -           | -               | SPARE                                     | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -              | A          | -                 | -                       |       |              |
| X-86B<br><br>EL 721'-6" AZ 307°30'                                          | 47W625-15  | -                 | -             | -           | -               | SPARE                                     | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -              | A          | -                 | -                       |       |              |
| X-86C<br><br>EL 721'-6" AZ 307°30'                                          | 47W625-15  | -                 | -             | -           | -               | SPARE                                     | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -              | A          | -                 | -                       |       |              |



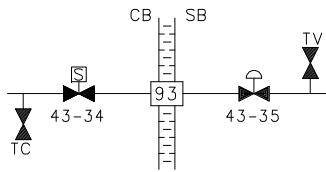
| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1 |                        |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      |                |     |            |                   |            |                   |                         |       |
|-----------------------------------------------------------------------------|------------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|-----|------------|-------------------|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                            |                        |                   |               |             |                 |                                           |                |              |                 |            |          |              |              | VALVE DATA       |             |        |          |               |               |      |                |     |            |                   |            |                   |                         |       |
| DETAILS                                                                     | DWG NUMBER             | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | ILRT | VALVE STATUS   |     |            |                   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                             |                        |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      | POS IND IN MCR | ESF | APP J TEST | ESSENTIAL/NON-ESS |            |                   |                         |       |
| X-86D<br><br>EL 721'6" AZ 307° 30'                                          | 47W331-2               | -                 | -             | -           | -               | SPARE                                     | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -              | -   | A          | -                 | -          |                   |                         |       |
| X-87A<br><br>EL 721'6" AZ 306°                                              | 47W331-2               | -                 | -             | -           | -               | SPARE                                     | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -              | A   | -          | -                 |            |                   |                         |       |
| X-87B<br><br>EL 721'6" AZ 306°                                              | 47W600-292<br>47W331-2 | -                 | W             | C           | BD              | RVLIS<br>(68)                             | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | N    | N              | A   | E          | -                 | 21         |                   |                         |       |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1 |                        |                   |   |   |    |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          |              |   |   |   |            |                   |                         |       |
|-----------------------------------------------------------------------------|------------------------|-------------------|---|---|----|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|------------|--------------|--------------|------------------|-------------|--------|----------|--------------|---|---|---|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                            |                        |                   |   |   |    |               |             |                 |                                           |                |              |                 |            | VALVE DATA |              |              |                  |             |        |          |              |   |   |   |            |                   |                         |       |
| DETAILS                                                                     | DWG NUMBER             | GEN DES CRITERION |   |   |    | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR   | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS |   |   |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                             |                        | -                 | W | C | BD |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          | N            | N | A | E |            |                   |                         |       |
| X-87C<br><br>EL 721'6" AZ 306°                                              | 47W600-292<br>47W331-2 | -                 | W | C | BD | RVLIS<br>(68) | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | -            | N | N | A | E          | MK102             | 21                      |       |
| X-87D<br><br>EL 721'6" AZ 306°                                              | 47W600-292<br>47W331-2 | -                 | W | C | BD | RVLIS<br>(68) | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | N            | N | A | E | MK102      | 21                |                         |       |
| X-88<br><br>EL 733 AZ 277° 30'                                              | 48W406<br>47W850-9     | -                 | - | - | -  | SPARE         | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | -            | - | A | - | MK-103     | 29                |                         |       |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| DETAILS                                                                            | PENETRATION DATA   |                   |               |             |                 |                                           |                |                   |                 |                | VALVE DATA   |                |              |                  |                |             |             |               |               |             |                |             |                   |                         |        | NOTES |  |  |
|------------------------------------------------------------------------------------|--------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|-------------------|-----------------|----------------|--------------|----------------|--------------|------------------|----------------|-------------|-------------|---------------|---------------|-------------|----------------|-------------|-------------------|-------------------------|--------|-------|--|--|
|                                                                                    | DWG NUMBER         | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER      | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR     | PRI ACT MODE   | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME    | NORMAL      | SHUTDOWN    | VALVE STATUS  |               |             |                |             |                   |                         |        |       |  |  |
|                                                                                    |                    |                   |               |             |                 |                                           |                |                   |                 |                |              |                |              |                  |                |             |             | POST-ACCIDENT | POWER FAILURE | ILRT        | POS IND IN MCR | APP J TEST  | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |        |       |  |  |
| X-89                                                                               | 48W406<br>47W850-9 | -                 | -             | -           | -               | SPARE                                     | -              | -                 | -               | -              | -            | -              | -            | -                | -              | -           | -           | -             | -             | -           | -              | -           | A                 | -                       | MK-104 | 30    |  |  |
| EL 732 AZ 278° 30'                                                                 |                    |                   |               |             |                 |                                           |                |                   |                 |                |              |                |              |                  |                |             |             |               |               |             |                |             |                   |                         |        |       |  |  |
|   | 47W848-1           | 56                | A             | C           | AB<br>D         | CONTROL<br>AIR TR-B<br>(32)               | CB<br>SB<br>SB | 323<br>103<br>318 | -<br>B<br>-     | CK<br>GL<br>GA | -<br>AO<br>M | SA<br>AT<br>LM | -<br>RM<br>- | -<br>PB<br>-     | -<br>10.0<br>- | O<br>O<br>C | O<br>O<br>C | C<br>C<br>C   | -<br>C<br>AI  | -<br>C<br>C | N<br>Y<br>N    | N<br>N<br>N | AC<br>AC<br>AC    | N                       | MK105  | 10    |  |  |
|  | 47W848-1           | 56                | A             | C           | AB<br>D         | CONTROL<br>AIR TR-A<br>(32)               | CB<br>SB<br>SB | 333<br>81<br>328  | -<br>A<br>-     | CK<br>GL<br>GA | -<br>AO<br>M | SA<br>AT<br>LM | -<br>RM<br>- | -<br>PB<br>-     | -<br>10.0<br>- | O<br>O<br>C | O<br>O<br>C | C<br>C<br>C   | -<br>C<br>AI  | -<br>C<br>C | N<br>Y<br>N    | N<br>N<br>N | AC<br>AC<br>AC    | N                       | MK56   | 10    |  |  |

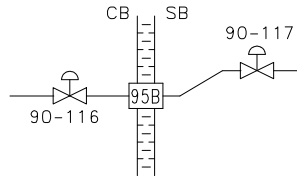
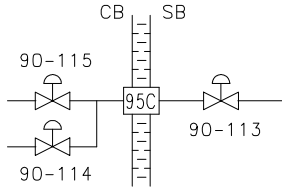
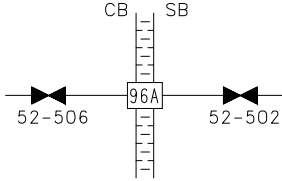
| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1 |            |                   |   |   |   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               |      |              |   |                |            |                   |                         |       |
|-----------------------------------------------------------------------------|------------|-------------------|---|---|---|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|------------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|--------------|---|----------------|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                            |            |                   |   |   |   |               |             |                 |                                           |                |              |                 |            | VALVE DATA |              |              |                  |             |        |          |               |               |      |              |   |                |            |                   |                         |       |
| DETAILS                                                                     | DWG NUMBER | GEN DES CRITERION |   |   |   | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR   | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | ILRT | VALVE STATUS |   | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                             |            |                   |   |   |   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               |      |              |   |                |            |                   |                         |       |
| X-92A<br><br>EL 723 AZ 290°                                                 | 47W625-11  | -                 | - | - | - | SPARE         | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | A | -              | -          |                   |                         |       |
| X-92B<br><br>EL 723 AZ 290°                                                 | 47W625-11  | -                 | - | - | - | SPARE         | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | A | -              | -          |                   |                         |       |
| X-92C<br><br>EL 723'-6" AZ 290°                                             | 47W625-15  | -                 | - | - | - | SPARE         | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | A | -              | -          |                   |                         |       |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                           |                      |                   |             |                 |                |                                                 |                |              |                 |            |          |              |              |                  |             |        |          |               |               |        |              |            |          |   |            |                   |                            |       |
|-------------------------------------------------------------------------------------------------------|----------------------|-------------------|-------------|-----------------|----------------|-------------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|--------|--------------|------------|----------|---|------------|-------------------|----------------------------|-------|
| PENETRATION DATA                                                                                      |                      |                   |             |                 |                |                                                 |                |              |                 |            |          |              |              | VALVE DATA       |             |        |          |               |               |        |              |            |          |   |            |                   |                            |       |
| DETAILS                                                                                               | DWG NUMBER           | GEN DES CRITERION |             |                 |                | SYSTEM NUMBER<br>AND PENETRATION<br>DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | ILRT   | VALVE STATUS |            |          |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG<br>PENETRATION | NOTES |
|                                                                                                       |                      | PROCESS FLUID     | FLUID STATE | POSS LEAK PATHS | POS IND IN MCR |                                                 |                |              |                 |            |          |              |              |                  |             |        |          |               |               |        | ESF          | APP J TEST |          |   |            |                   |                            |       |
| X-92D<br><br>EL 723'6" AZ 290°                                                                        | 47W331-3             | -                 | -           | -               | -              | SPARE                                           | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -      | -            | -          | A        | - | -          |                   |                            |       |
| <br>EL 723'6" AZ 289° | 47W625-2             | 56                | W           | C               | AB<br>D        | ACCUM<br>SAMPLE<br>(43)                         | CB<br>SB       | 34<br>35     | B<br>A          | GL<br>GL   | SO<br>AO | AT<br>AT     | RM<br>RM     | PA<br>PA         | 5.0<br>5.0  | V<br>V | C<br>C   | C<br>C        | C<br>C        | C<br>C | Y<br>Y       | N<br>N     | AC<br>AC | N | MK58       |                   |                            |       |
| X-94A<br><br>EL 741 AZ 294°                                                                           | 47W600-105<br>48W406 | -                 | A           | C               | -              | SPARE                                           | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -      | -            | A          | -        | - |            |                   |                            |       |

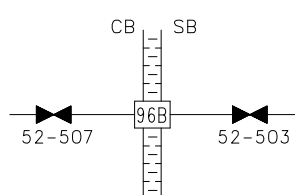
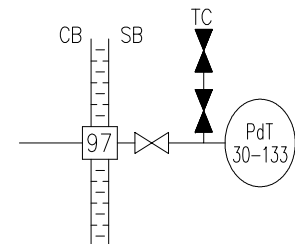
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| DETAILS | PENETRATION DATA |    |   |   |         |                                                                                                                         |          |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |      |                |     |   |   |   |   |   |            |                   | NOTES |                            |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------|------------------|----|---|---|---------|-------------------------------------------------------------------------------------------------------------------------|----------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|-----|---|---|---|---|---|------------|-------------------|-------|----------------------------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|         | DWG NUMBER       | 56 | A | C | AB<br>D | GEN DES CRITERION<br>PROCESS FLUID<br>FLUID STATE<br>POSS LEAK PATHS<br>SYSTEM NUMBER<br>AND PENETRATION<br>DESCRIPTION | CB<br>SB | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |     |   |   |   |   |   | APP J TEST | ESSENTIAL/NON-ESS |       | SHIELD BLDG<br>PENETRATION |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|         |                  |    |   |   |         |                                                                                                                         |          |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | ESF | C | C | C | Y | N |            |                   |       |                            | AC | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

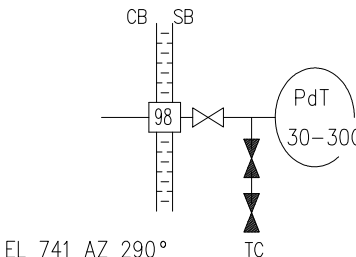
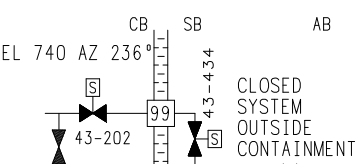
| PENETRATION DATA                                                                                          |            |         |           |               |         |                                         |                                           |                   |              | VALVE DATA      |                |                |                |                |                   |             |             |              |               |               |             |                |                |   |   |   |   |            |                   |                         |       |
|-----------------------------------------------------------------------------------------------------------|------------|---------|-----------|---------------|---------|-----------------------------------------|-------------------------------------------|-------------------|--------------|-----------------|----------------|----------------|----------------|----------------|-------------------|-------------|-------------|--------------|---------------|---------------|-------------|----------------|----------------|---|---|---|---|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                   | DWG NUMBER | GEN DES | CRITERION | PROCESS FLUID | STATE   | POSS LEAK PATHS                         | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION    | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR       | PRI ACT MODE   | SEC ACT MODE   | ISOLATION SIGNAL  | STROKE TIME | NORMAL      | VALVE STATUS |               |               |             |                |                |   |   |   |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                           |            |         |           |               |         |                                         |                                           |                   |              |                 |                |                |                |                |                   |             |             | SHUTDOWN     | POST-ACCIDENT | POWER FAILURE | ILRT        | POS IND IN MCR | ESF            | C | C | C | Y |            |                   |                         |       |
|  <p>EL 741 AZ 293°</p>   | 47W600-105 | 56      | A         | C             | AB<br>D | UPPER COMP<br>AIR MON<br>INTAKE<br>(90) | CB<br>SB                                  | 116<br>117        | B<br>A       | GL<br>GL        | AO<br>AO       | AT<br>AT       | RM<br>RM       | CV<br>CV       | 5.0<br>5.0        | O<br>O      | O<br>O      | C<br>C       | C<br>C        | C<br>C        | Y<br>Y      | N<br>N         | AC<br>AC       | N |   |   |   |            | MK60M             |                         |       |
|  <p>EL 741 AZ 293°</p>   | 47W600-105 | 56      | A         | C             | AB<br>D | UPPER COMP<br>AIR MON<br>RETURN<br>(90) | CB<br>SB<br>CB                            | 114<br>113<br>115 | B<br>A<br>B  | GL<br>GL<br>GL  | AO<br>AO<br>AO | AT<br>AT<br>AT | RM<br>RM<br>RM | CV<br>CV<br>CV | 5.0<br>5.0<br>5.0 | O<br>O<br>O | O<br>O<br>O | C<br>C<br>C  | C<br>C<br>C   | O<br>C<br>O   | Y<br>Y<br>Y | N<br>N<br>N    | AC<br>AC<br>AC | N |   |   |   |            | MK60M             |                         |       |
|  <p>EL 741 AZ 292°</p> | 47W331-3   | 56      | A         | C             | B       | ILRT<br>SENSOR<br>LINE<br>(52)          | CB<br>SB                                  | 506<br>502        | —<br>—       | GL<br>GL        | M<br>M         | LM<br>LM       | —<br>—         | —<br>—         | —<br>—            | C<br>C      | V<br>V      | C<br>C       | —<br>—        | O<br>O        | N<br>N      | N<br>N         | AC<br>AC       | N |   |   |   |            | —                 |                         |       |

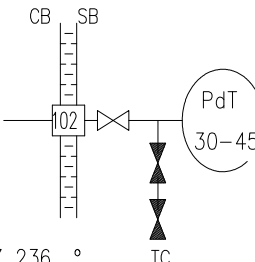
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                          |                         |                   |               |             |                 |                                           |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |               |               |        |                |        |          |   |   |   |    |            |                   |                         |       |
|-----------------------------------------------------------------------------------------------------------|-------------------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|--------|----------------|--------|----------|---|---|---|----|------------|-------------------|-------------------------|-------|
| DETAILS                                                                                                   | DWG NUMBER              | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |        |                |        |          |   |   |   |    | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                                           |                         |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT   | POS IND IN MCR | ESF    | AC       | N | N | N | O  |            |                   |                         |       |
|  <p>EL 741 AZ 292°</p>   | 47W331-3                | 56                | A             | C           | B               | ILRT<br>SENSOR<br>LINE<br>(52)            | CB<br>SB       | 507<br>503   | -<br>-          | GL<br>GL   | M<br>M   | LM<br>LM     | -<br>-       | -<br>-           | -<br>-      | C<br>C | V<br>V   | C<br>C        | -<br>-        | O<br>O | N<br>N         | N<br>N | AC<br>AC | N | - |   |    |            |                   |                         |       |
| <p>X-96C</p> <p>741 AZ 292°</p>                                                                           | 47W600-89               | -                 | -             | -           | -               | SPARE                                     | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -      | -              | -      | A        | - | - |   |    |            |                   |                         |       |
|  <p>EL 741 AZ 291°</p> | 47W866-1<br>2-47W600-89 | -                 | A             | C           | B               | dP SENSOR<br>(30)                         | SB             | SNSR         | -               | -          | -        | -            | -            | -                | -           | O      | O        | O             | -             | -      | -              | N      | A        | N | - |   | 12 |            |                   |                         |       |



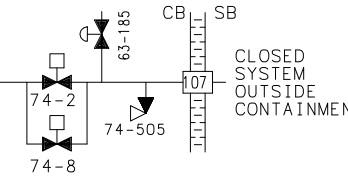
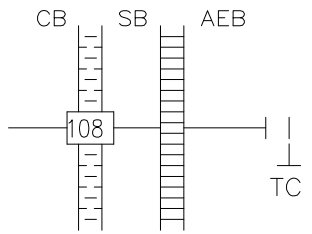
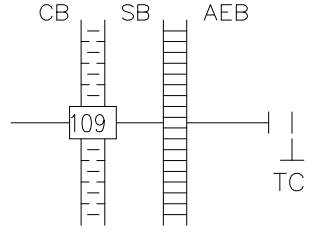
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                  |             |                   |               |             |                 |                                           |                |              | VALVE DATA      |            |          |              |              |                  |             |        |          |               |               |      |                |            |                   |                         |  |       |
|-----------------------------------------------------------------------------------|-------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|----------------|------------|-------------------|-------------------------|--|-------|
| DETAILS                                                                           | DWG NUMBER  | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS  |               |      |                |            |                   |                         |  | NOTES |
|                                                                                   |             |                   |               |             |                 |                                           |                |              |                 |            |          |              |              |                  |             |        |          | POST-ACCIDENT | POWER FAILURE | ILRT | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |  |       |
|   | 2-47W600-89 | -                 | A             | C           | B               | dP SENSOR (30)                            | SB             | SNSR         | -               | -          | -        | -            | -            | -                | O           | O      | O        | -             | -             | -    | N              | A          | N                 | -                       |  | 12    |
|  | 47W625-11   | 56                | A             | C           | BD              | HYDROGEN ANALYZER (43)                    | CB SB          | 202 434      | A A             | GL GL      | SO SO    | RM RM        | - -          | - -              | C C         | C C    | O O      | C C           | O O           | Y Y  | N N            | AC AC      | E                 | MK-54                   |  | 15    |
|                                                                                   | 47W625-11   | 56                | A             | C           | BD              | HYDROGEN ANALYZER (43)                    | CB SB          | 201 433      | A A             | GL GL      | SO SO    | RM RM        | - -          | - -              | C C         | C C    | O O      | C C           | O O           | Y Y  | N N            | AC AC      | E                 | MK-54                   |  | 15    |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                           |             |                   |             |                 |                |                                                 |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      |              |   |   |   |            |                   |                            |       |
|-------------------------------------------------------------------------------------------------------|-------------|-------------------|-------------|-----------------|----------------|-------------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|--------------|---|---|---|------------|-------------------|----------------------------|-------|
| PENETRATION DATA                                                                                      |             |                   |             |                 |                |                                                 |                |              |                 |            |          |              |              | VALVE DATA       |             |        |          |               |               |      |              |   |   |   |            |                   |                            |       |
| DETAILS                                                                                               | DWG NUMBER  | GEN DES CRITERION |             |                 |                | SYSTEM NUMBER<br>AND PENETRATION<br>DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | ILRT | VALVE STATUS |   |   |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG<br>PENETRATION | NOTES |
|                                                                                                       |             | PROCESS FLUID     | FLUID STATE | POSS LEAK PATHS | POS IND IN MCR |                                                 |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      | ESF          |   |   |   |            |                   |                            |       |
| X-101<br><br>EL 723'6" AZ 288°                                                                        | 48W406      | -                 | -           | -               | -              | SPARE                                           | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | - | A | - | -          |                   |                            |       |
| <br>EL 728' AZ 236 ° | 2-47W600-89 | -                 | A           | C               | B              | dP SENSOR (30)                                  | SB             | SNSR         | -               | -          | -        | -            | -            | -                | O           | O      | O        | -             | -             | -    | N            | A | E | - |            | 12                |                            |       |
| X-103<br><br>EL 723'6" AZ 287°                                                                        | 48W406      | -                 | -           | -               | -              | SPARE                                           | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | - | A | - | -          |                   |                            |       |

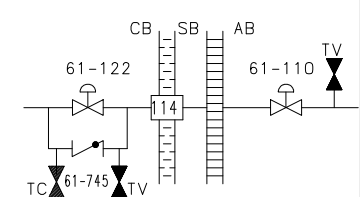
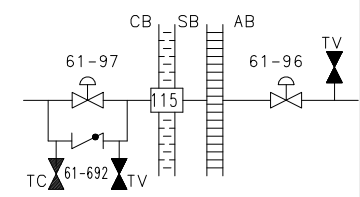
| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1 |            |                   |             |                 |                |                                                 |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      |              |     |     |     |            |                   |                            |       |
|-----------------------------------------------------------------------------|------------|-------------------|-------------|-----------------|----------------|-------------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|--------------|-----|-----|-----|------------|-------------------|----------------------------|-------|
| PENETRATION DATA                                                            |            |                   |             |                 |                |                                                 |                |              |                 |            |          |              |              | VALVE DATA       |             |        |          |               |               |      |              |     |     |     |            |                   |                            |       |
| DETAILS                                                                     | DWG NUMBER | GEN DES CRITERION |             |                 |                | SYSTEM NUMBER<br>AND PENETRATION<br>DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | ILRT | VALVE STATUS |     |     |     | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG<br>PENETRATION | NOTES |
|                                                                             |            | PROCESS FLUID     | FLUID STATE | POSS LEAK PATHS | POS IND IN MCR |                                                 |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      | ESF          | ESF | ESF | ESF |            |                   |                            |       |
| X-104<br><br>EL 728 AZ 237°                                                 | 48W406     | -                 | -           | -               | -              | SPARE                                           | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | -   | A   | -   | -          |                   |                            |       |
| X-105<br><br>EL 722'-6" AZ 288°                                             | 47W625-15  | -                 | -           | -               | -              | SPARE                                           | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | -   | A   | -   | -          |                   |                            |       |
| X-106<br><br>EL 727' AZ 236°                                                | 47W625-15  | -                 | -           | -               | -              | SPARE                                           | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | -   | A   | -   | -          |                   |                            |       |

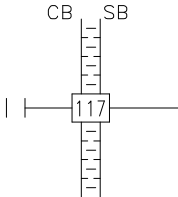
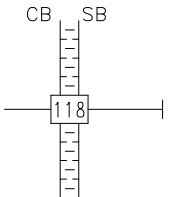
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                   |                      |                   |   |   |         |               |                                      |                      |                                           | VALVE DATA       |                      |                     |                     |                    |                   |                     |                  |                  |                  |                    |                  |                  |                  |                  |   |       |  |  |  |            |                   |                         |       |
|------------------------------------------------------------------------------------|----------------------|-------------------|---|---|---------|---------------|--------------------------------------|----------------------|-------------------------------------------|------------------|----------------------|---------------------|---------------------|--------------------|-------------------|---------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|---|-------|--|--|--|------------|-------------------|-------------------------|-------|
| DETAILS                                                                            | DWG NUMBER           | GEN DES CRITERION |   |   |         | PROCESS FLUID | FLUID STATE                          | POSS LEAK PATHS      | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION   | VALVE NUMBER         | ESF POWER TRAIN     | VALVE TYPE          | ACTUATOR           | PRI ACT MODE      | SEC ACT MODE        | ISOLATION SIGNAL | STROKE TIME      | NORMAL           | VALVE STATUS       |                  |                  |                  |                  |   |       |  |  |  | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                                    |                      |                   |   |   |         |               |                                      |                      |                                           |                  |                      |                     |                     |                    |                   |                     |                  |                  |                  | SHUTDOWN           | POST-ACCIDENT    | POWER FAILURE    | ILRT             | POS IND IN MCR   |   |       |  |  |  |            |                   |                         |       |
|    | 47W810-1<br>47W432-2 | 55                | W | H | BD      |               | RHR<br>SUPPLY<br>TO PUMPS<br>(74.63) | CB<br>CB<br>CB<br>CB | 2<br>8<br>505<br>185                      | B<br>A<br>-<br>A | GA<br>GA<br>RV<br>GL | MO<br>MO<br>-<br>AO | RM<br>RM<br>-<br>RM | LM<br>LM<br>-<br>- | -<br>-<br>-<br>PA | -<br>-<br>-<br>10.0 | C<br>C<br>C<br>V | V<br>V<br>C<br>V | V<br>V<br>V<br>C | AI<br>AI<br>-<br>C | O<br>C<br>C<br>C | Y<br>Y<br>N<br>Y | N<br>N<br>N<br>N | -<br>-<br>-<br>- | E | MK38  |  |  |  |            |                   |                         |       |
|    | 47W435-18<br>-22     | -                 | A | C | AB<br>E |               | MAINT<br>PORT                        | AB                   | -                                         | -                | BL                   | M                   | LM                  | -                  | -                 | -                   | C                | V                | C                | -                  | C                | N                | N                | AB               | N | AS108 |  |  |  |            |                   |                         |       |
|  | 47W435-18<br>-22     | -                 | A | C | AB<br>E |               | MAINT<br>PORT                        | AB                   | -                                         | -                | BL                   | M                   | LM                  | -                  | -                 | -                   | C                | V                | C                | -                  | C                | N                | N                | AB               | N | AS109 |  |  |  |            |                   |                         |       |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1 |                     |                   |   |   |   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               |      |              |   |                |            |                   |                         |       |
|-----------------------------------------------------------------------------|---------------------|-------------------|---|---|---|---------------|-------------|-----------------|-------------------------------------------|----------------|--------------|-----------------|------------|------------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|--------------|---|----------------|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                            |                     |                   |   |   |   |               |             |                 |                                           |                |              |                 |            | VALVE DATA |              |              |                  |             |        |          |               |               |      |              |   |                |            |                   |                         |       |
| DETAILS                                                                     | DWG NUMBER          | GEN DES CRITERION |   |   |   | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR   | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | ILRT | VALVE STATUS |   | POS IND IN MCR | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                             |                     |                   |   |   |   |               |             |                 |                                           |                |              |                 |            |            |              |              |                  |             |        |          |               |               |      |              |   |                |            |                   |                         |       |
| X-110<br><br>EL 711'6" AZ 209°                                              | 48N406<br>47W435-22 | -                 | - | - | B | SPARE         | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | A | -              | MK32       |                   |                         |       |
| X-111<br><br>EL 845'9" AZ 90°                                               | 48W406              | -                 | - | - | - | SPARE         | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | A | -              | -          |                   |                         |       |
| X-112<br><br>EL 845'9" AZ 270°                                              | 48W406              | -                 | - | - | - | SPARE         | -           | -               | -                                         | -              | -            | -               | -          | -          | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | A | -              | -          |                   |                         |       |

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

| PENETRATION DATA                                                                                                                           |            |                   |               |             |                 |                                           |                |                   |                 | VALVE DATA     |               |                |               |                  |                   |             |             |               |               |             |              |                   |                         |   |       |   |   |   |       |   |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|-------------|-----------------|-------------------------------------------|----------------|-------------------|-----------------|----------------|---------------|----------------|---------------|------------------|-------------------|-------------|-------------|---------------|---------------|-------------|--------------|-------------------|-------------------------|---|-------|---|---|---|-------|---|
| DETAILS                                                                                                                                    | DWG NUMBER | GEN DES CRITERION | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION | VALVE LOCATION | VALVE NUMBER      | ESF POWER TRAIN | VALVE TYPE     | ACTUATOR      | PRI ACT MODE   | SEC ACT MODE  | ISOLATION SIGNAL | STROKE TIME       | NORMAL      | SHUTDOWN    | POST-ACCIDENT | POWER FAILURE | ILRT        | VALVE STATUS |                   |                         |   |       |   |   |   | NOTES |   |
|                                                                                                                                            |            |                   |               |             |                 |                                           |                |                   |                 |                |               |                |               |                  |                   |             |             |               |               |             | APP J TEST   | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION |   |       |   |   |   |       |   |
| <div>X-113</div> <div>EL 740 AZ 216°</div>                                                                                                 | 48W406     | -                 | -             | -           | -               | SPARE                                     | -              | -                 | -               | -              | -             | -              | -             | -                | -                 | -           | -           | -             | -             | -           | -            | -                 | -                       | - | -     | - | - | - | -     | - |
|                                                                                                                                            |            |                   |               |             |                 |                                           |                |                   |                 |                |               |                |               |                  |                   |             |             |               |               |             |              |                   |                         |   |       |   |   |   |       |   |
| <div></div> <div>EL 775 AZ 300°</div>                      | 47W814-2   | 56                | G             | C           | AB<br>D         | GLYCOL FLOOR COOLING (61)                 | CB<br>AB<br>CB | 122<br>110<br>745 | B<br>A<br>-     | DI<br>DI<br>CK | AO<br>AO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PA<br>PA<br>-    | 30.0<br>30.0<br>- | O<br>O<br>O | O<br>O<br>V | C<br>C<br>-   | C<br>C<br>O   | O<br>O<br>N | Y<br>Y<br>Y  | Y<br>Y<br>Y       | C<br>C<br>C             | N | MK110 | 8 |   |   |       |   |
|                                                                                                                                            |            |                   |               |             |                 |                                           |                |                   |                 |                |               |                |               |                  |                   |             |             |               |               |             |              |                   |                         |   |       |   |   |   |       |   |
| <div></div> <div>EL 771'6" AZ 300°</div> | 47W814-2   | 56                | G             | C           | AB<br>D         | GLYCOL FLOOR COOLING (61)                 | CB<br>AB<br>CB | 97<br>96<br>692   | B<br>A<br>-     | DI<br>DI<br>CK | AO<br>AO<br>- | AT<br>AT<br>SA | RM<br>RM<br>- | PA<br>PA<br>-    | 30.0<br>30.0<br>- | O<br>O<br>O | O<br>O<br>V | C<br>C<br>-   | C<br>C<br>O   | O<br>O<br>N | Y<br>Y<br>Y  | Y<br>Y<br>Y       | C<br>C<br>C             | N | MK111 | 8 |   |   |       |   |
|                                                                                                                                            |            |                   |               |             |                 |                                           |                |                   |                 |                |               |                |               |                  |                   |             |             |               |               |             |              |                   |                         |   |       |   |   |   |       |   |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1                               |             |                   |             |                 |                |                                                                                 |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      |              |     |     |     |            |                   |                            |       |
|-----------------------------------------------------------------------------------------------------------|-------------|-------------------|-------------|-----------------|----------------|---------------------------------------------------------------------------------|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|---------------|---------------|------|--------------|-----|-----|-----|------------|-------------------|----------------------------|-------|
| PENETRATION DATA                                                                                          |             |                   |             |                 |                |                                                                                 |                |              |                 |            |          |              |              | VALVE DATA       |             |        |          |               |               |      |              |     |     |     |            |                   |                            |       |
| DETAILS                                                                                                   | DWG NUMBER  | GEN DES CRITERION |             |                 |                | SYSTEM NUMBER<br>AND PENETRATION<br>DESCRIPTION                                 | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | POST-ACCIDENT | POWER FAILURE | ILRT | VALVE STATUS |     |     |     | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG<br>PENETRATION | NOTES |
|                                                                                                           |             | PROCESS FLUID     | FLUID STATE | POSS LEAK PATHS | POS IND IN MCR |                                                                                 |                |              |                 |            |          |              |              |                  |             |        |          |               |               |      | ESF          | ESF | ESF | ESF |            |                   |                            |       |
| X-116<br><br>EL 760 AZ 300°                                                                               | 48W406      | -                 | -           | -               | -              | SPARE                                                                           | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -             | -             | -    | -            | -   | A   | -   | MK7        |                   |                            |       |
| <br>EL 758 AZ 300°       | 47W301-1    | -                 | A           | C               | AB             | MAINT<br>PORT                                                                   | CB             | -            | -               | BL         | M        | LM           | -            | -                | -           | C      | V        | C             | -             | C    | N            | N   | AB  | N   | MK8        |                   |                            |       |
| <br>EL 708' 6" AZ 209° | 72-4334-318 | -                 | W           | C               | AB<br>C        | LAYUP<br>WATER<br>TREATMENT<br>(41)<br>AND<br>ANNULUS<br>FLOOD<br>MODE<br>DRAIN | SB             | -            | -               | BL         | M        | LM           | -            | -                | -           | C      | O        | C             | -             | O    | N            | N   | AB  | N   | MK18       | 27                |                            |       |

| WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1 |            |                   |               |      |                |               |             |                 |                                           |   |                |              |                 |            |          |              |              |                  |             |        |          |              |   |   |   |            |                   |                         |       |
|-----------------------------------------------------------------------------|------------|-------------------|---------------|------|----------------|---------------|-------------|-----------------|-------------------------------------------|---|----------------|--------------|-----------------|------------|----------|--------------|--------------|------------------|-------------|--------|----------|--------------|---|---|---|------------|-------------------|-------------------------|-------|
| PENETRATION DATA                                                            |            |                   |               |      |                |               |             |                 |                                           |   |                |              |                 | VALVE DATA |          |              |              |                  |             |        |          |              |   |   |   |            |                   |                         |       |
| DETAILS                                                                     | DWG NUMBER | GEN DES CRITERION |               |      |                | PROCESS FLUID | FLUID STATE | POSS LEAK PATHS | SYSTEM NUMBER AND PENETRATION DESCRIPTION |   | VALVE LOCATION | VALVE NUMBER | ESF POWER TRAIN | VALVE TYPE | ACTUATOR | PRI ACT MODE | SEC ACT MODE | ISOLATION SIGNAL | STROKE TIME | NORMAL | SHUTDOWN | VALVE STATUS |   |   |   | APP J TEST | ESSENTIAL/NON-ESS | SHIELD BLDG PENETRATION | NOTES |
|                                                                             |            | POST-ACCIDENT     | POWER FAILURE | ILRT | POS IND IN MCR |               |             |                 |                                           |   |                |              |                 |            |          |              |              |                  |             |        |          |              |   |   |   |            |                   |                         |       |
| X-119<br><br>EL 844'5" AZ 90°                                               | 48W406     | -                 | -             | -    | -              | SPARE         | -           | -               | -                                         | - | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -            | - | - | A | -          | -                 |                         |       |
| X-120<br><br>EL 844'5" AZ 270°                                              | 48W406     | -                 | -             | -    | -              | SPARE         | -           | -               | -                                         | - | -              | -            | -               | -          | -        | -            | -            | -                | -           | -      | -        | -            | - | - | A | -          | -                 |                         |       |
|                                                                             |            |                   |               |      |                |               |             |                 |                                           |   |                |              |                 |            |          |              |              |                  |             |        |          |              |   |   |   |            |                   |                         |       |