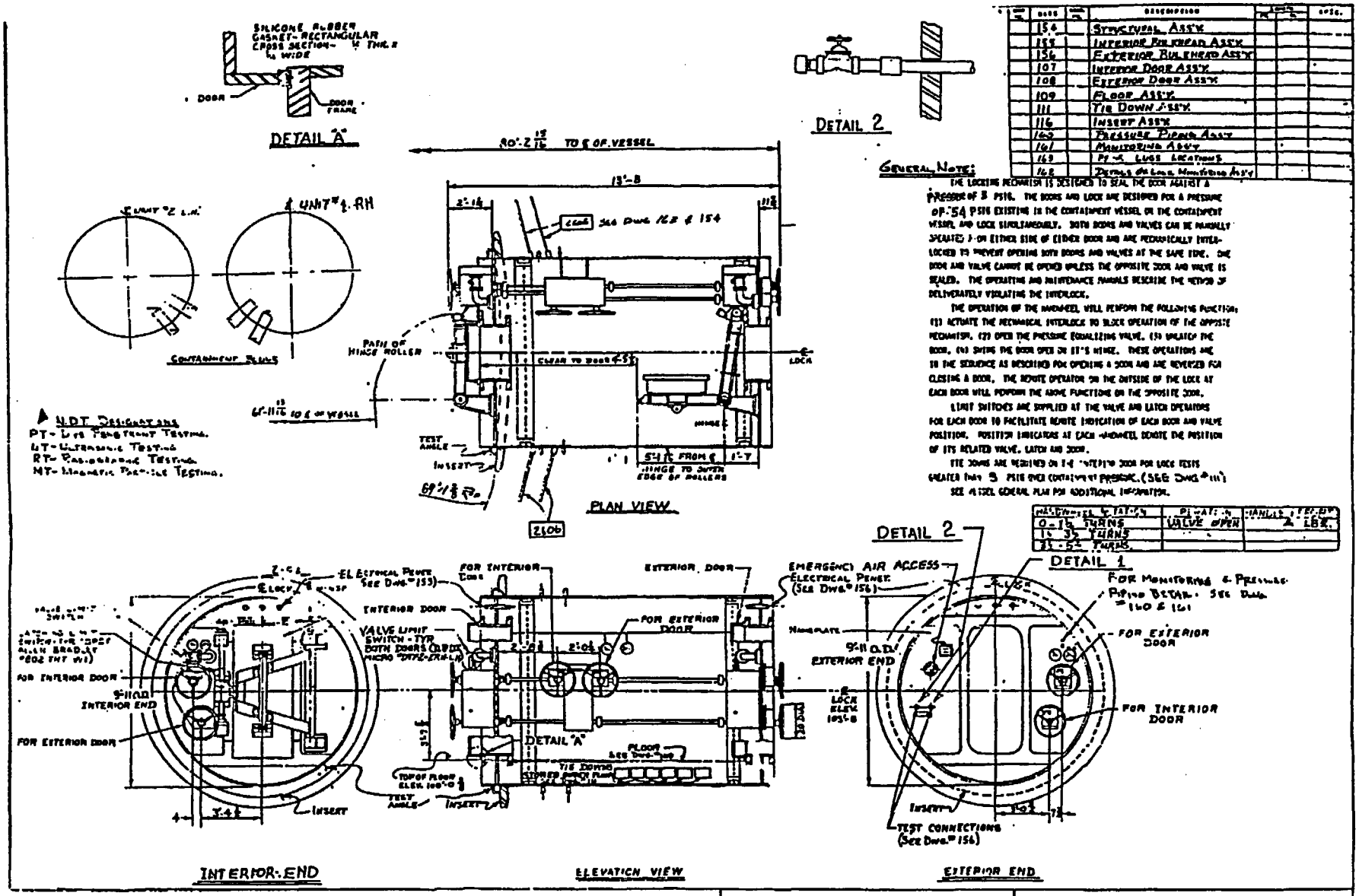


| | | | | | |
|---|---|---|---|---|---|
| | 154 | STRUCTURAL ASS'Y | | | |
| | 155 | INTERIOR BULKHEAD ASS'Y | | | |
| | 156 | EXTERIOR BULKHEAD ASS'Y | | | |
| | 107 | INTERIOR DOOR ASS'Y | | | |
| | 108 | EXTERIOR DOOR ASS'Y | | | |
| | 109 | FLOOR ASS'Y | | | |
| | 111 | TIE DOWN ASS'Y | | | |
| | 116 | INSERT ASS'Y | | | |
| | 160 | PRESSURE PIPING ASS'Y | | | |
| | 161 | MONITORING ASS'Y | | | |
| | 163 | PT-5 LUGS LOCATIONS | | | |
| | 162 | DETAILS OF LOCK MONITORING ASS'Y | | | |

GENERAL NOTE:

THE LOCKING MECHANISM IS DESIGNED TO SEAL THE DOOR AGAINST A PRESSURE OF 3 PSIG. THE DOORS AND LOCK ARE DESIGNED FOR A PRESSURE OF 54 PSIG EXISTING IN THE CONTAINMENT VESSEL OR THE CONTAINMENT VESSEL AND LOCK SIMULTANEOUSLY. BOTH DOORS AND VALVES CAN BE MANUALLY OPERATED FROM EITHER SIDE OF EITHER DOOR AND ARE MECHANICALLY INTERLOCKED TO PREVENT OPENING BOTH DOORS AND VALVES AT THE SAME TIME. ONE DOOR AND VALVE CANNOT BE OPENED UNLESS THE OPPOSITE DOOR AND VALVE IS SEALED. THE OPERATING AND MAINTENANCE MANUALS DESCRIBE THE METHOD OF DELIVERATELY VIOLATING THE INTERLOCK.

THE OPERATION OF THE HANDWHEEL WILL PERFORM THE FOLLOWING FUNCTION: (1) ACTUATE THE MECHANICAL INTERLOCK TO BLOCK OPERATION OF THE OPPOSITE MECHANISM, (2) OPEN THE PRESSURE EQUALIZING VALVE, (3) UNLATCH THE DOOR, (4) SWING THE DOOR OPEN ON IT'S HINGE. THESE OPERATIONS ARE IN THE SEQUENCE AS DESCRIBED FOR OPENING A DOOR AND ARE REVERSED FOR CLOSING A DOOR. THE REMOTE OPERATOR ON THE OUTSIDE OF THE LOCK AT EACH DOOR WILL PERFORM THE ABOVE FUNCTIONS ON THE OPPOSITE DOOR.

LIMIT SWITCHES ARE SUPPLIED AT THE VALVE AND LATCH OPERATORS FOR EACH DOOR TO FACILITATE REMOTE INDICATION OF EACH DOOR AND VALVE POSITION. POSITION INDICATORS AT EACH HANDWHEEL DENOTE THE POSITION OF ITS RELATED VALVE, LATCH AND DOOR.

TIE DOWNS ARE REQUIRED ON THE INTERIOR DOOR FOR LOCK TESTS GREATER THAN 3 PSIG OVER CONTAINMENT PRESSURE. (SEE DWG #111)

SEE VESSEL GENERAL PLAN FOR ADDITIONAL INFORMATION.

| HANDWHEEL ROTATION | PLATE IN | HANDLE TEST |
|---|---|---|
| 0-1 1/2 TURNS | VALVE OPEN | 2 LBS. |
| 1 1/2-3 1/2 TURNS | | |
| 3 1/2-5 1/2 TURNS | | |

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
SALEM NUCLEAR GENERATING STATION

General Arrangement - Personnel Lock

Updated FSAR
Revision 16

Figure 3.8-36
January 31, 1998