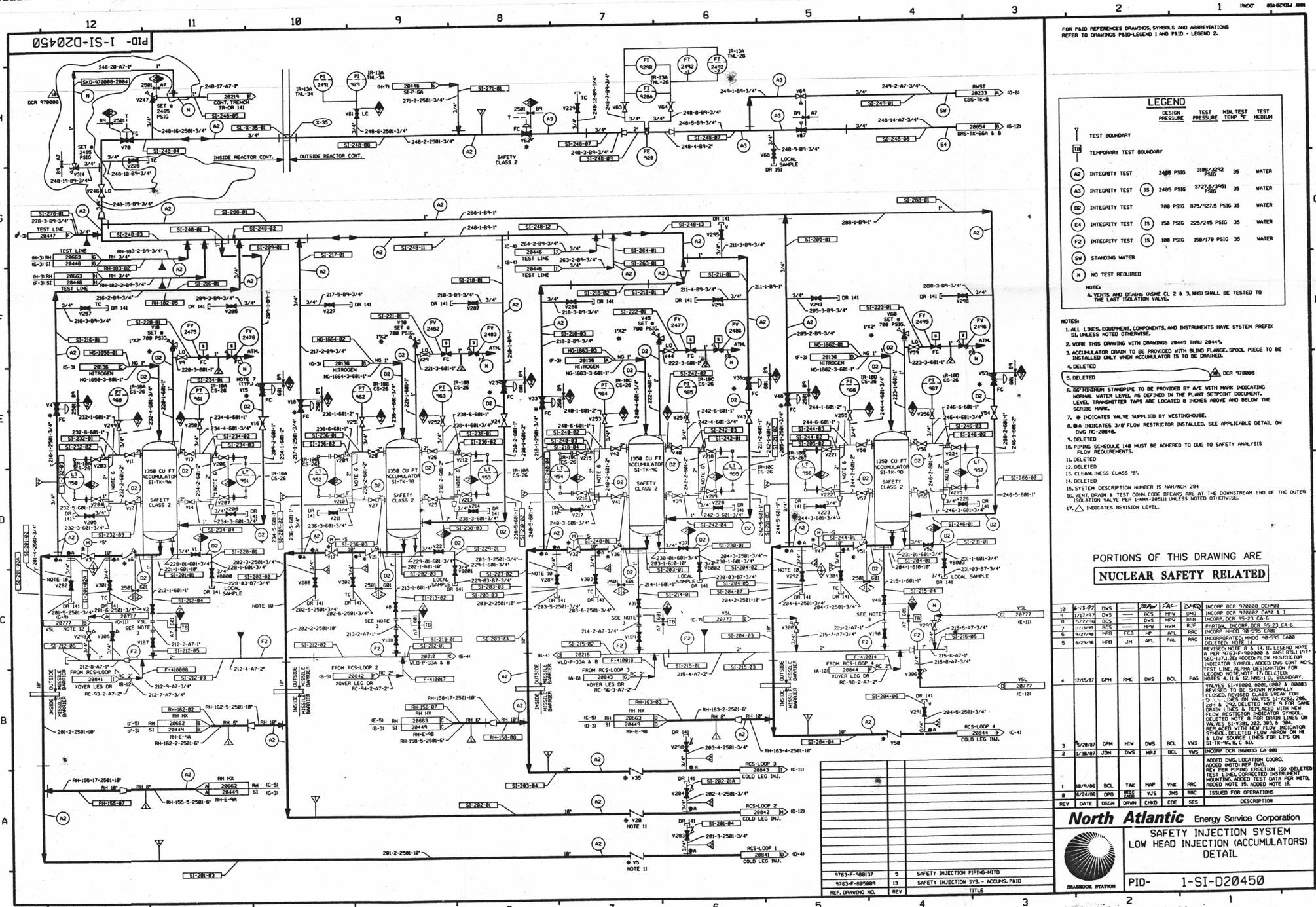
FOR INFORMATION ONLY

PID- 1-SI-D20450




FOR P&ID REFERENCES DRAWINGS, SYMBOLS AND ABBREVIATIONS REFER TO DRAWINGS P&ID-LEGEND 1 AND P&ID - LEGEND 2.

## LEGEND

| | | | DESIGN PRESSURE | TEST PRESSURE | MIN. TEST TEMP °F | TEST MEDIUM |
|---|---|---|---|---|---|---|
| | TEST BOUNDARY | | | | | |
| TB | TEMPORARY TEST BOUNDARY | | | | | |
| A2 | INTEGRITY TEST | | 2485 PSIG | 3186/2992 PSIG | 35 | WATER |
| A3 | INTEGRITY TEST | IS | 2485 PSIG | 3727.5/2951 PSIG | 35 | WATER |
| D2 | INTEGRITY TEST | | 700 PSIG | 875/927.5 PSIG | 35 | WATER |
| E4 | INTEGRITY TEST | IS | 150 PSIG | 225/245 PSIG | 35 | WATER |
| F2 | INTEGRITY TEST | IS | 100 PSIG | 150/170 PSIG | 35 | WATER |
| SW | STANDING WATER | | | | | |
| N | NO TEST REQUIRED | | | | | |

NOTE:
A. VENTS AND DRAINS (ASME CL 2 & 3, NNS) SHALL BE TESTED TO THE LAST ISOLATION VALVE.

NOTES:
1. ALL LINES, EQUIPMENT, COMPONENTS, AND INSTRUMENTS HAVE SYSTEM PREFIX SI, UNLESS NOTED OTHERWISE.
2. WORK THIS DRAWING WITH DRAWINGS 28445 THRU 28449.
3. ACCUMULATOR DRAIN TO BE PROVIDED WITH BLIND FLANGE. SPOOL PIECE TO BE INSTALLED ONLY WHEN ACCUMULATOR IS TO BE DRAINED.
4. DELETED
5. DELETED △4 DCR 970000
6. 66" MINIMUM STANDPIPE TO BE PROVIDED BY A/E WITH MARK INDICATING NORMAL WATER LEVEL AS DEFINED IN THE PLANT SETPOINT DOCUMENT. LEVEL TRANSMITTER TAPS ARE LOCATED 8 INCHES ABOVE AND BELOW THE SCRIBE MARK.
7. ✱ INDICATES VALVE SUPPLIED BY WESTINGHOUSE.
8. @A INDICATES 3/8" FLOW RESTRICTOR INSTALLED. SEE APPLICABLE DETAIL ON DWG RC-20648.
9. DELETED
10. PIPING SCHEDULE 140 MUST BE ADHERED TO DUE TO SAFETY ANALYSIS FLOW REQUIREMENTS.
11. DELETED
12. DELETED
13. CLEANLINESS CLASS "B".
14. DELETED
15. SYSTEM DESCRIPTION NUMBER IS NAH/NCH 284
16. VENT, DRAIN & TEST CONN. CODE BREAKS ARE AT THE DOWNSTREAM END OF THE OUTER ISOLATION VALVE PER 1-MHY-805111 UNLESS NOTED OTHERWISE.
17. △ INDICATES REVISION LEVEL.

PORTIONS OF THIS DRAWING ARE

**NUCLEAR SAFETY RELATED**

| REV | DATE | DSGN | DRWN | CHKD | CDE | SES | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 10 | 6-13-97 | DWS | — | JMW | FAC | DMO | INCORP DCR 970008 DCN#08 |
| 9 | 1/17/97 | DWS | — | BCS | MPW | DMO | INCORP DCR 970002 CA#8 & 1 |
| 8 | 5/7/96 | BCS | — | DWS | MPW | RRB | INCORP. DCR '95-23 CA-5 |
| 7 | 11/13/95 | BCS | — | MPW | HWH | RJF | PARTIAL INCORP. DCR '95-23 CA-6 |
| 6 | 9/27/90 | MRB | FCB | HP | APL | RRC | INCORP MMOD '90-595 CA01 |
| 5 | 6/29/90 | MRB | JM | APL | PAL | RRC | INCORPORATED MMOD '90-595 CA00 DELETED: NOTE 14 REVISED: NOTE 8 & 14, 16, LEGEND NOTE A PER 9763-F-900000 & ANSI B31.1 (97), SEC-137.1.2E) ADDED FLOW RESTRICTOR INDICATOR SYMBOL, ADDED DWG CONT NO'S. TEST LINE, ALPHA DESIGNATION FOR LEGEND NOTE, NOTE 17 DELETED. NOTES 4, 11 & 12, NNS-1 CL. BOUNDARY. |
| 4 | 12/15/87 | GPM | RMC | DWS | BCL | PAG | VALVES SI-V8000, 8001, 8002 & 8003 REVISED TO BE SHOWN NORMALLY CLOSED. REVISED CLASS BREAK FOR P&ID LINES ON VALVES SI-V282, 286, 284 & 292. DELETED NOTE 4 FOR SAME. DRAIN LINES & REPLACED WITH NEW FLOW RESTICTOR INDICATOR SYMBOL. DELETED NOTE 8 FOR DRAIN LINES ON VALVES SI-V381, 382, 383 & 384. REPLACED WITH NEW FLOW INDICATOR SYMBOL. DELETED FLOW ARROW ON HI & LOW SOURCE LINES FOR LT'S ON SI-TK-9A, B, C & D. |
| 3 | 5/20/87 | GPM | HTW | DWS | BCL | VWS | |
| 2 | 1/30/87 | JDM | | DWS | MRJ | BCL | VWS INCORP DCR 860033 CA-001 |
| 1 | 10/9/86 | BCL | | TAK | MAP | VNK | RRC ADDED DWG. LOCATION COORD. ADDED (MITD) REF DWG. REV PER PIPING ERECTION ISO (DELETED TEST LINE), CORRECTED INSTRUMENT MOUNTING, ADDED TEST DATA PER MITD, ADDED NOTE 15, ADDED NOTE 16. |
| 0 | 6/24/86 | OPD | [illegible] | VJS | JHS | RRC | ISSUED FOR OPERATIONS |

| REF. DRAWING NO. | REV | TITLE |
|---|---|---|
| 9763-F-900137 | 5 | SAFETY INJECTION PIPING-MITD |
| 9763-F-895009 | 13 | SAFETY INJECTION SYS. - ACCUMS. P&ID |

**North Atlantic** Energy Service Corporation

SEABROOK STATION

SAFETY INJECTION SYSTEM
LOW HEAD INJECTION (ACCUMULATORS) DETAIL

PID- 1-SI-D20450

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