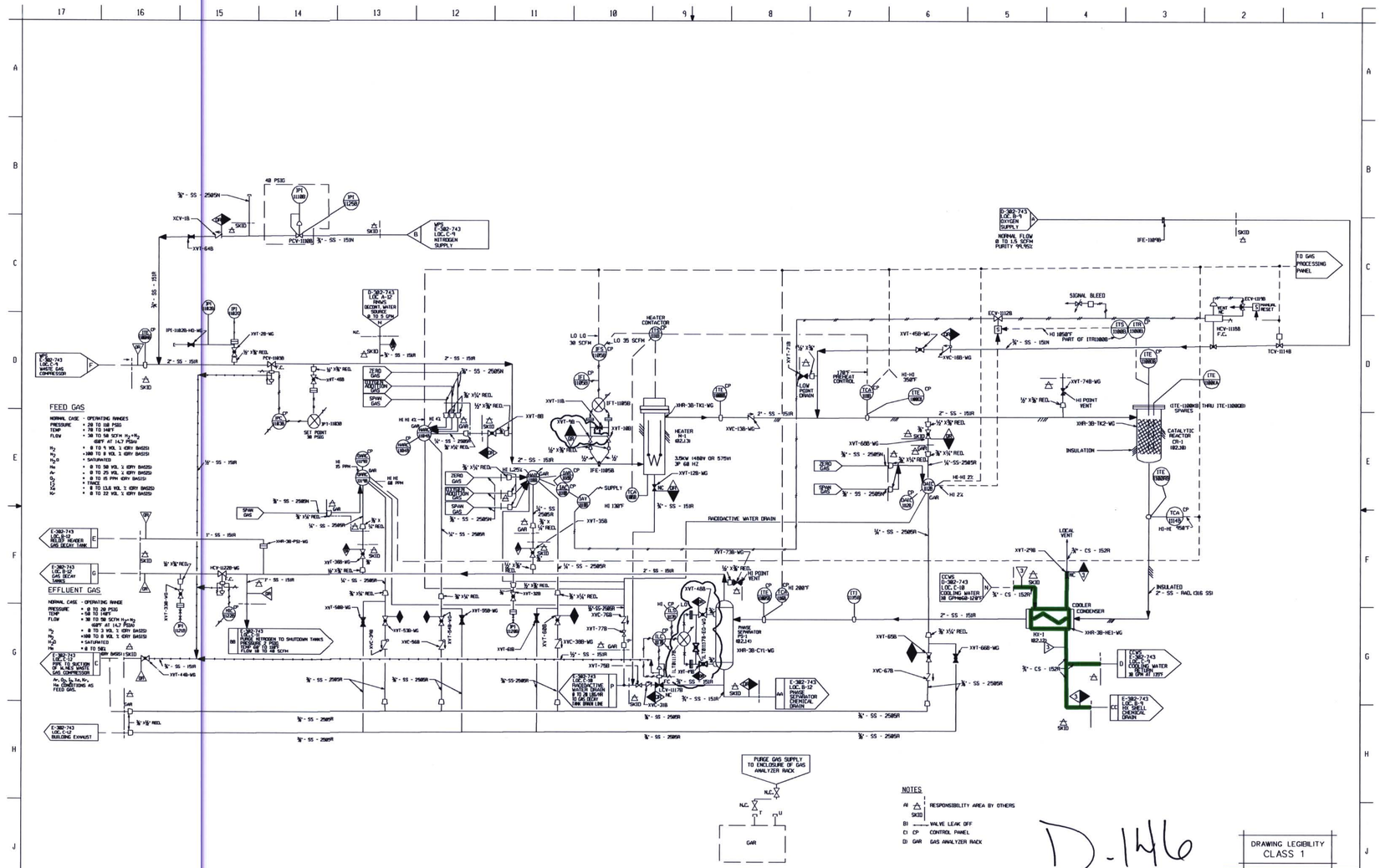
FEED GAS
NORMAL CASE - OPERATING RANGES
PRESSURE • 20 TO 100 PSIG
TEMP • 70 TO 140°F
FLOW • 30 TO 50 SCFH H_2+H_2 (GDRY AT 14.7 PSIA)
H_2 • 8 TO 1 % VOL % (DRY BASIS)
H_2O • >100 TO 1 VOL % (DRY BASIS)
N_2 • SATURATED
O_2 • 0 TO 50 VOL % (DRY BASIS)
Ar • 0 TO 25 VOL % (DRY BASIS)
CO_2 • 0 TO 15 PPM (DRY BASIS)
CO • TRACE
CH_4 • 0 TO 13.6 VOL % (DRY BASIS)
Kr • 0 TO 22 VOL % (DRY BASIS)
EFFLUENT GAS
NORMAL CASE - OPERATING RANGE
PRESSURE • 0 TO 20 PSIG
TEMP • 50 TO 140°F
FLOW • 30 TO 50 SCFH H_2+H_2 (GDRY AT 14.7 PSIA)
H_2 • 8 TO 3 VOL % (DRY BASIS)
H_2O • >100 TO 0 VOL % (DRY BASIS)
N_2 • SATURATED
He • 0 TO 50%
Ar, O_2, N_2, H_2, He CONDITIONS AS FEED GAS.
HEATER CONTACTOR
HEATER H-1 (E2.2)
3.5KW 480V OR 575V 3Ø 60 HZ
RADIOACTIVE WATER DRAIN
CATALYTIC REACTOR CR-1 (E2.3)
INSULATION
COOLER CONDENSER
ECWS U-302-743 LOC. C-18 COOLING WATER 30 GPM@60-120°F
ECWS U-302-743 LOC. C-3 COOLING WATER 30 GPM AT 120°F
TO GAS PROCESSING PANEL
PURGE GAS SUPPLY TO ENCLOSURE OF GAS ANALYZER RACK
GAR
NOTES
A) SKID RESPONSIBILITY AREA BY OTHERS
B) VALVE LEAK OFF
C) CP CONTROL PANEL
D) GAR GAS ANALYZER RACK
D-146
DRAWING LEGIBILITY CLASS 1
PLEX Drawing TR00160-006
SOUTH CAROLINA ELECTRIC & GAS COMPANY
VIRGIL C. SUMMER NUCLEAR STATION
PIPING SYSTEM FLOW DIAGRAM
CATALYTIC HYDROGEN RECOMBINER B
DESIGN ENGINEERING
V. C. SUMMER NUCLEAR STATION JENKINSVILLE, S.C.
DRAWN ACI CHECKED MGR LE APPROVAL TLW
E-302-745 DRAWING NUMBER -- DFC NUMBER 3 REV
3 10/7/98 JTS REVISED PER CGSS-98-0434 MGR GAR
2 3/6/97 RHM REVISED PER ECR-50054 DDJ TLW
1 1/3/96 JHB REVISED PER CGSI-95-1081 MGR GAR
0 0/5/90 ACI ISSUED PER MRF-21862 MGR TLW
NO. DATE BY REVISION CHKD BY LE APPROVAL
1/4"= 1'-0"