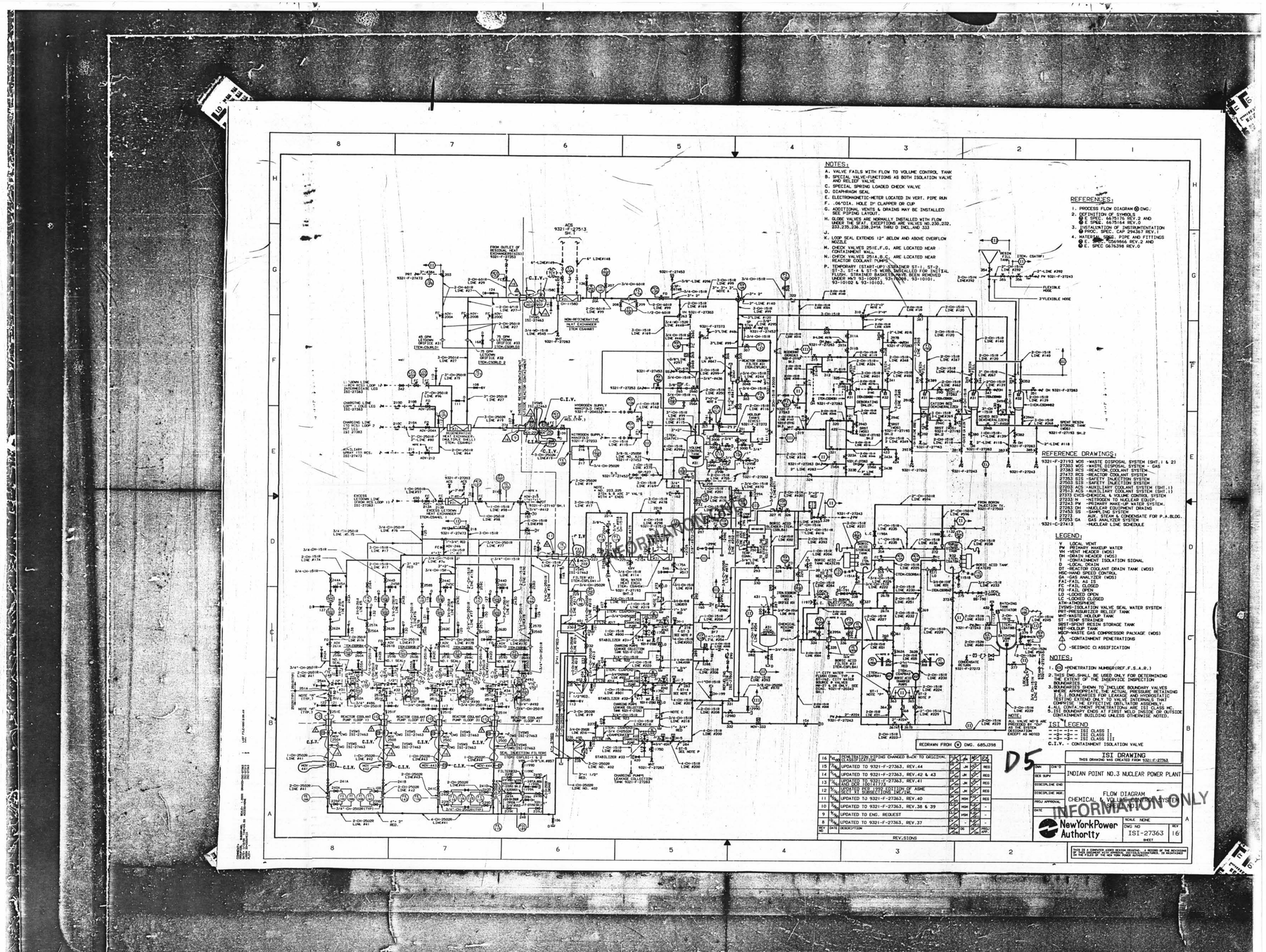
NOTES:
A. VALVE FAILS WITH FLOW TO VOLUME CONTROL TANK
B. SPECIAL VALVE-FUNCTIONS AS BOTH ISOLATION VALVE AND RELIEF VALVE
C. SPECIAL SPRING LOADED CHECK VALVE
D. DIAPHRAGM SEAL
E. ELECTROMAGNETIC-METER LOCATED IN VERT. PIPE RUN
F. .06"DIA. HOLE IN CLAPPER OR CUP
G. ADDITIONAL VENTS & DRAINS MAY BE INSTALLED SEE PIPING LAYOUT.
H. GLOBE VALVES ARE NORMALLY INSTALLED WITH FLOW UNDER THE SEAT. EXCEPTIONS ARE VALVES NO.230,232, 233,235,236,238,249A THRU G INCL.AND 333
J.
K. LOOP SEAL EXTENDS 12" BELOW AND ABOVE OVERFLOW NOZZLE
M. CHECK VALVES 251E,F,G, ARE LOCATED NEAR REACTOR COOLANT PUMPS.
N. CHECK VALVES 201A,B,C, ARE LOCATED NEAR REACTOR COOLANT PUMPS.
P. TEMPORARY STRAINER-UPSTREAM OF ORIFICES ST-1, ST-2, ST-3, ST-4 & ST-5 WERE INSTALLED FOR INITIAL FLUSH. STRAINER BASKETS HAVE BEEN REMOVED UNDER MWR 93-10097, 93-10099, 93-10101, 93-10102 & 93-10103.
REFERENCES:
1. PROCESS FLOW DIAGRAM (9) DWG.
2. DEFINITION OF SYMBOLS
A) E SPEC. 6675176 REV.2 AND
B) SPEC. 6675164 REV.0
3. INSTALLATION OF INSTRUMENTATION
A) E SPEC. 6675180 REV.1
4. MATERIAL FOR PIPE AND FITTINGS
A) E SPEC. 6266966 REV.2 AND
B) E SPEC 6676398 REV.0
REFERENCE DRAWINGS:
9321-F-27193 WDS -WASTE DISPOSAL SYSTEM (SHT.1 & 2)
27303 WDS - WASTE DISPOSAL SYSTEM - GAS
27383 RCS -REACTOR COOLANT SYSTEM
27433 RCS -REACTOR COOLANT SYSTEM
27503 SIS -SAFETY INJECTION SYSTEM
27563 SIS -SAFETY INJECTION SYSTEM
27203 ACS -AUXILIARY COOLANT SYSTEM (SHT.1)
27513 ACS -AUXILIARY COOLANT SYSTEM (SHT.2)
27372 CVCS-CHEMICAL & VOLUME CONTROL SYSTEM
27533 N -NITROGEN TO NUCLEAR EQUIP.
27243 PW -PRIMARY MAKE-UP WATER SYSTEM.
27463 DR -NUCLEAR SYSTEM DRAINS
27453 SS -SAMPLE SINK SYSTEM
27273 AUX STEAM & CONDENSATE FOR P.A.BLDG.
27553 GA GAS ANALYZER SYSTEM
9321-C-27413 -NUCLEAR LINE SCHEDULE
LEGEND:
V -LOCAL VENT
MU -MAKE-UP/MAKEUP WATER
VH -VENT HEADER (WDS)
DH -DRAIN HEADER (WDS)
T -CONTAINMENT ISOLATION SIGNAL
D -LOCAL DRAIN
DT -REACTOR COOLANT DRAIN TANK (WDS)
MSC-HAND SPEED CONTROL
FA -FAIL AS IS (SDI (WDS)
FA -FAIL AS IS
FC -FAIL CLOSED
FO -FAIL OPEN
LO -LOCKED OPEN
LC -LOCKED CLOSED
ATM-ATMOSPHERIC
IWSW-ISOLATION VALVE SEAL WATER SYSTEM
PRT -PRESSURIZER RELIEF TANK
VHT -VENT HEADER TANK
ST -TEMP STRAINER
SRST-SPENT RESIN STORAGE TANK
HDT -HOLDUP TANK
WGCP-WASTE GAS COMPRESSOR PACKAGE (WDS)
-CONTAINMENT PENETRATIONS
-SEISMIC CLASSIFICATION
NOTES:
1. (M) =PENETRATION NUMBER(REF.F.S.A.R.)
2. THIS DWG.SHALL BE USED ONLY FOR DETERMINING THE EXTENT OF THE INSERVICE INSPECTION BOUNDARIES.
3. BOUNDARIES SHOWN TO INCLUDE BOUNDARY VALVES WHEN APPROPRIATE, THE ACTUAL PRESSURE RETAINING BOUNDARY FOR EXAMINATION AND HYDROSTATIC TESTING EXTENDS TO THE FIRST VALVE WHICH COMPRISE THE EFFECTIVE ISOLATION ASSEMBLY.
4. ALL CONTAINMENT PENETRATING ARE ISI CLASS MC.
5. ISI BOUNDARY ENDS AT FIRST WELD INSIDE OR OUTSIDE CONTAINMENT BUILDING UNLESS OTHERWISE NOTED.
NOTE:
ALL VALVE NO'S ARE PREFIXED WITH 27 FOR DESIGNATION EXCEPT AS NOTED
ISI LEGEND
--1--1--1-- ISI CLASS 1
--2--2--2-- ISI CLASS 2
C.I.V. - CONTAINMENT ISOLATION VALVE
REDRAWN FROM (9) DWG. 685-3398
REVISIONS
ISI DRAWING
THIS DRAWING WAS CREATED FROM 9321-F-27363
INDIAN POINT NO.3 NUCLEAR POWER PLANT
FLOW DIAGRAM
CHEMICAL & VOLUME CONTROL SYSTEM
NewYorkPower Authority
SCALE NONE
DWG NO ISI-27363
REV 16
SHEET
D5
INFORMATION ONLY