DWG. 2030 SHT. 1 ZONE D–9 — 10" CF–2 (FUEL POOL RUPTURE SEAL DRAIN) — 1–FPC–114–10 — 10" CF–2
DWG. 2032 SHT. 3 ZONE A–6 — 3" CF–1 (FLOOR DRAIN FILTER PRECOAT RETURN) — 1–RW–277–3
DWG. 2030 SHT. 2 ZONE G–9 — 4" CF–1 (FROM FUEL POOL SYSTEM PRECOAT RETURN) — 1–RW–276–4
DWG. 2032 SHT. 3 ZONE A–6 — 2" PW–1 (DRAIN TO CHEMICAL WASTE TANK) — 1–RW–239–2
DWG. 2030 SHT. 2 ZONE G–9 — 4" CF–1 (TO FUEL POOL SYSTEM) (PRECOAT FEED) — 1–RW–236–3

MATCH LINE (SEE DWG. 2033 SHT. 3)

FROM TDS–20–397 ZONE B–6
FROM FT–382 ZONE B–4
TO AOSPV–20–126 ZONE B–6
FROM PUMP (20–14) ZONE C–3
TO AOSPV 20–114 ZONE F–3
TO AOSPV20–113 ZONE G–3
ADDITION TANK AGITATOR
DWG. 2049 SHT. 2, ZONE C–7
RESIN ADDITION TANK
TO FRC–20–383 ZONE A–8
FROM FRC–20–383 ZONE B–8
FROM FRC20–383 ZONE A–9
WASTE COLL FILTER HOLD UP PUMP (20–14)
COND. SUPPLY DWG. 2049 SHT. 2 ZONE A–5
WASTE COLLECTOR FILTERS (20–13)
WASTE COLLECTOR PRECOAT RETURN
EDUCTOR
1"CF–1 TO CONDENSATE F/D PRECOAT TANK SEE DWG. 2035 SHT. 2, ZONE C–4
WASTE FILTER AID TANK SEE DWG. 2032 SHT. 1 ZONE G–2
TO FRC–20–383 ZONE A–9
FROM LIS–20–399 DWG. 2032 SHT. 1 ZONE F–3
CONDENSATE DWG. 2049, SHT. 1 ZONE E–7
WASTE FILTER AID DUMP (20–21)
WASTE DEMINERALIZER (20–49)
RESIN LEVEL
4" FLANGED FLUSHING CONN.
1" FLANGED FLUSHING CONNS.
TO FLOOR DRAIN DEMINERALIZER DWG. 2079 SHT. 1 ZONE A–1
TO FLOOR DRAIN SUMP
FROM DWG. 2049 SHT. 2 ZONE D–6
E/S–20 545B
S–121 SCREENED STRAINER
FIG. 2 SEE NOTE 4
FOR COND. SUPPLY FOR CONT. SEE DWG. 2049 SHT. 2 ZONE C–7
HEATING STEAM DWG. 2012 SHT. 1 ZONE F–1
FILTERED AIR DWG. 2012 SHT. 3 ZONE A–5
TO RADWASTE EQUIPMENT DRAIN SUMP
SEE NOTE 8
AOSPV 20–114
AOSPV 20–113
AOSPV 20–122
AOSPV20–121
AOSPV 20–124
AOSPV20–126
AOSPV 20–125
AOSPV20–118
AOSPV 20–119
AOSPV 20–155
AVSPV 415
AVSPV417
AVSPV418
AVSPV416
AVSPV812
AVSPV419
AVSPV425
VENT TO EQUIPMENT DRAIN
FOR CONT. SEE DWG. 2010 SHT. 3 ZONE C–6
COND. SUPPLY DWG 2049 SHT. 2 ZONE E–7
FROM FLOOR DRAIN DEMIN. BACKWASH DWG. 2079, SHT. 1 ZONE G–2
TO EQUIPMENT DRAIN SUMP
SEE DWG. 2032 SHT. 1 ZONE H–8
AVSPV1507
TO WASTE SLUDGE TANK LIS–469 DWG. 2032 SHT. 4, ZONE E–4
TO WASTE COLLECTOR TANK PUMP SWITCH DWG. 2035 SHT. 2, ZONE G–6
TO WASTE SURGE TANK PUMP SWITCH DWG. 2033 SHT. 3, ZONE E–9
TO EQUIPMENT DRAINS
CONT. ON DWG. 2010 SHT. 3 ZONE B–3
FROM FRC–20–383 ZONE B–9
FOR CONT. SEE DWG. 2030 SHT. 2, ZONE A–7
FOR CONT. SEE DWG. 2032 SHT. 4, ZONE A–12
FOR CONT. SEE DWG. 2032 SHT. 4, ZONE B–12
FOR CONT. SEE DWG. 2032 SHT. 4, ZONE B–12
(ALTERNATE WASTE DEMIN. BACKWASH TO WASTE SLUDGE TANK)
(WASTE COLLECTION FILTER BY–PASS)
(PRE–COAT FEED)
3"CF–1 (PRECOAT FEED TO FLOOR DR FILTER)
MATCH LINE (SEE DWG. 2033, SHT. 2 ZONES A–6–7–10–11)
MATCH LINE (SEE DWG. 2033 SHT. 3)

NOTES:

1. SYMBOL ---X--- DENOTES BACKWASH TIMER CONTROL.
2. UNLESS OTHERWISE INDICATED, ALL PRESSURE AND/OR FLOW INSTRUMENT ROOT VALVES SHALL BE ¾", ROOT VALVES FOR CARBON STEEL SYSTEMS SHALL BE ¾"V253X; ROOT VALVES FOR STAINLESS STEEL SYSTEMS SHALL BE ¾"V226X. LINE UP TO AND INCLUDING ROOT VALVE SHALL BE FURNISHED AND INSTALLED UNDER CONTRACT E–69–4.
3. ALL TEMPERATURE TEST AND PROTECTING WELL PENETRATIONS SHALL BE 1" NPT UNLESS OTHERWISE NOTED.
4. AT SAMPLING POINTS, CONNECTIONS, PROBES AND ROOT VALVES SHALL BE FURNISHED AND INSTALLED UNDER CONTRACT E–69–4. PROBES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CONTRACT PARA. 3, 4, 2 AND DWG. SP–07211, FIG. No, AS NOTED, CONTINUATION OF SAMPLE PIPING BY E–70–3.
5. HIGH POINT VENTS AND LOW POINT DRAINS NOT SHOWN.
6. ALL PIPING FROM SHIELDED TANKS TO FIRST SHUTOFF VALVES SHALL BE SUITABLY SUPPORTED TO WITHSTAND A CLASS I SEISMIC EARTHQUAKE.
7. ALL VALVE NUMBERS IN PARENTHESIS ( ) ARE NUMBERS TO BE USED IN OPERATING PROCEDURES. THESE NUMBERS ARE ASSIGNED BY NPPD AND WILL NOT BE SHOWN ON PIPING DRAWINGS.
8. △'S WHERE SHOWN WITH NUMBERS REPRESENT POINTS OF CONNECTION TO EXISTING SYSTEMS. E–73–58 SPECIFICATION DEFINES WORK FROM THIS POINT.
9. ALL ITEMS MARKED THUS [A] ARE "AS BUILT" ITEMS AND ARE NOT SHOWN ON PIPE DRAWINGS.
10. WHERE LINES ARE INTERCONNECTED AND CONTINUED ON OTHER DRAWINGS, ZONE NUMBERS ARE APPROXIMATE ONLY.

AS BUILT
454003626
STATUS: Release
STATUS DATE: 01/18/2018
DS APPROVED: RSCULLI
VER: AB REV: 21 SIZE: F

REVISIONS TO THIS DRAWING REQUIRES A REVISION TO THE CORRESPONDING ISOKEY.

FOR PREVIOUS REVISIONS, SEE SUPERSEDED CARDS.
VERSIONS/REVISIONS BY N.P.P.D.

NO.	DESCRIPTION	DFTI DATE	ENG
AB/21	DR–2018–0001	DJB 01/16/18	RSCULLI

SIGNIFICANT NUMBER / GROUP 1 2 3 4 5 6

DRAWN DATE
CHECKED DATE
APPROVED DATE
SEE SUPERSEDED CARDS
FILMED

COOPER NUCLEAR STATION
FLOW DIAGRAM
LOW CONDUCTIVITY
(EQUIPMENT DRAINS) PROCESSING

BURNS & ROE

2033 SH 1

CARD FILE: C0017933