47W814-2 | M | 85

DCA W29680-12-0

REACTOR BLDG. UNIT TWO INSIDE CONTAINMENT | AUXILIARY BLDG OUTSIDE CONTAINMENT | AUXILIARY BLDG. OUTSIDE CONTAINMENT | REACTOR BLDG UNIT 1 INSIDE CONTAINMENT

PENETRATION 47A | PENETRATION 47B | PENETRATION 47B | PENETRATION X-114 | PENETRATION X-115

TO GLYCOL COOLED FLOOR PUMPS UNIT 2 TO TAG NO'S 2-61-937 THRU 2-61-1008

PIPING TO UNIT 2 IDENTICAL TO UNIT 1 TO TAG NOS. 2-61-791 THRU 2-61-832

AUXILIARY BLDG ADDITIONAL EQUIP. BUILDING

TEST VENTS | VENT

CONTINUED ON 47W814-3

CONN'S TO ICE MACHINES SEE 47W814-1 A6

1" DRAIN 0-61-1053

FOR COOLING WATER SEE 47W644

PACKAGE CHILLER CD 50 TON DUAL PACKAGE

PACKAGE CHILLER AB 50 TON DUAL PACKAGE

PACKAGE CHILLER EF 50 TON DUAL PACKAGE

PACKAGE CHILLER GH 50 TON DUAL PACKAGE

SPARE ICE MACH. FULL

TO GLYCOL MIXING PUMP SEE 47W814-1 A4

ETHYLENE GLYCOL CIRCULATION PUMPS 190 GPM @ 220'

CLASS H PUMPS A THRU F (TYP)

LINE MK NUMBER	HYDROSTATIC TEST PRESSURE (PSIG)
1	225
2	188

FOR PIPING ONLY. LIMITING COMPONENTS TO BE DETERMIDED BY FIELD.

CHILLER A, D, F UNIT 1 CHILLER B, E, G UNIT 2

MODES OF OPERATION PUMPS C & F UNIT 1 PUMPS A & E UNIT 2

NOTES:
1. FOR ALL AIR HANDLING UNITS & GLYCOL COOLED FLOOR BAYS VALVE NO'S SEE TABLES 47W814-3.
2. PIPING DESIGNATED AS CLASS N (Q) HAS ITS PRESSURE BOUNDARY IN THE QA PROGRAM.
3. ALL REV. NOT CALLED OUT WERE DONE PER ECN 3085.
4. FOR UNIT OPERATION - 6" SPOOL PIECE IS TO BE REMOVED AND BLANKED OFF WITH BLIND FLANGES. THE BLIND FLANGE SHALL BE 1" THICK AND MADE OF A36 STEEL OR EQUAL. ANSI 150# RF.

(NOTE 4 - CONTINUED) 4" FLOW ELEMENT IS TO BE REMOVED AND A "PANCAKE" METAL PLATE IS TO BE INSERTED IN ITS PLACE. THE PLATE SHALL BE 3/4" THICK AND MADE OF A36 STEEL.

1" FLOW ELEMENT IS TO BE REMOVED AND A "PANCAKE" METAL PLATE INSERTED IN ITS PLACE. THE PLATE SHALL BE 3/8" THICK AND MADE OF A36 STEEL.

BASKETS FOR ABOVE BLIND FLANGES AND PLATES SHALL BE 1/16" THICK ETHYLENE PROPYLENE AS DESCRIBED IN MARK NO. 47W462-282.

NOR WTR LVL EL 824-1 1/2" | GLYCOL EXPANSION TANK CAP: 340 GAL | SIGHT GLASS

TOP DECK DOOR BLANKET

TO ODD NO. AIR HANDLING UNITS CONTAINMENT SIDE

EVEN NO. (SEE NOTE, ZONE 10A) | ODD NO. (SEE NOTE, ZONE 10A)

AIR HANDLING UNITS 1 THRU 30 DUAL PACKAGES PER CONTAINMENT 2.0 TONS @ 2600 SCFM

TO AIR HANDLING UNITS EVEN NOS. CRANE WALL SIDE SEE TYPICAL UNIT

END WALL DOOR

NOTE: PLENUM AREA IS BOUNDED BY TOP DECK & INTERMEDIATE DECK DOORS, END, CRANE & CONTAINMENT WALLS

ELECTRIC DEFROST | FAN 1B | FAN 1A

TEMPORARY PIPE LINES FOR ICE FILL & MAKE UP REMOVE AFTER USE

CONT ON 47W814-2 H2-H3

CYCLONE RECEIVER 150 LB/MIN

EXHAUST TO PLENUM | ICE VACUUM

ICE CONDENSER BOUNDRY

HEAT TRACED INSIDE PLENUM AREA ONLY

AIR DISTRIBUTION DUCT HEADER

FROM EVEN NO. AIR HANDLING UNITS

AIR PANELS CONTAINMENT WALLS

TO GLYCOL COOLED FLOOR CONNS BAYS 2 THRU 24

ICE BASKETS | VACUUM PICKUP OF SPILLED ICE

EMBEDDED GLYCOL COOLED FLOOR PIPING 24 BAYS

FLEXIBLE HOSE (TYP) | FLOOR DRAIN | LOWER INLET DOORS 24 PAIR

GLYCOL FLOOR HEATERS 36 GPM 30 KW

FROM FLOOR DRAINS 2 THRU 10 | FROM FLOOR DRAINS 11 THRU 20

CONTAINMENT SUMP | CONTAINMENT FLOOR & EQUIPMENT SUMP

CONT. ON 47W851

FOR CONT. ON UNIT 2 SEE CORD B-2 | FOR CONT. OF UNIT 2 SEE CORD A-1

GLYCOL COOLED FLOOR PUMPS 100 GPM @ 240 FT. HD

(UNIT 2) CLASS N (Q) | (UNIT 1) CLASS N | CLASS M | CLASS B | CLASS G | CLASS H

ADDITIONAL EQUIP. BLDG. | AUXILIARY BLDG. OUTSIDE CONTAINMENT | REACTOR BLDG. INSIDE CONTAINMENT

COMPANION DRAWING--- 47W814-1 & 3

ADMIN W-29680-B	7/15/96	TDK	LSC	16679	NR	NR	NR	MK Mod	WJS RLD
18	DRAWING ENHANCED FOR LEGIBILITY. REVISED PER DCA W29680-12-0.								

REV	CHANGE REF	DATE	DFTR	CHKR	DSGN	RVWR	APPD	APPD	APPD	ISSD

DSGN C. DUANEY | DRWN A. FURGUASON | CHKD R.F. WILLIAMS | SUPV R.W. ACKENHAM | INSP | ENGINEER

POWERHOUSE UNITS 1 & 2

FLOW DIAGRAM D-16
ICE CONDENSER SYSTEM

WATTS BAR NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

Q

SUBMITTED	RECOMMENDED	APPROVED

KNOXVILLE | 10-11-72 | 85 | M | 47W814-2 | R18

RECORD DRAWING AS CONSTRUCTED

SCANNED DOCUMENT
THIS IS A SCANNED DOCUMENT MAINTAINED ON THE WBNP OPTISCAN/ICS SCANNER DATABASE