CONTAINMENT COOLERS

FOR SERVICE WATER SUPPLY & RETURN SEE DWG. OM-46 (60-706-E) SH.2 OF 2

CONTAINMENT CHARCOAL FILTER NO.12

21,248 CFM. EACH CAVITY COOLING FANS

SIAS STARTS FAN

FAN NO.14

FAN NO.12

FAN NO.11

FAN NO.13

FUSIBLE DROPOUT PLATES (TYP.-4)

CONTAINMENT CHARCOAL FILTER NO.11

SPLITTER DAMPER

11,534 CFM

943 CFM

1710 CFM

120,000 CFM

61,500 CFM

6335 CFM (10 PLACES)

60,000 CFM (2 PLACES)

1800 CFM

678 CFM

573 CFM

100 CFM

1000 CFM

2530 CFM

2500 CFM EA.

7,000 CFM TOTAL (1-FAN)

50,000 CFM

60,000 CFM

R.C. PUMP

STEAM GENERATOR

PRESSURIZER

LOWER EL.71

SPARE

TROUBLE

THERMAL POWER REF. CALC.

TO DIGITAL FW CONT.SYS.IC35 OM-39(B-3) 60-702-E SH.4

TO DIGITAL FW CONT. SYS.IC36 OM-39(G-3) 60-702-E SH.4

FROM 1NX002B
FROM 1NX003C
FROM 1NX004D

TO 1JKJ011

TO 1JKJ011

CONTAINMENT VENTILATION SYSTEM
UNIT NO.1

PRESSURIZER COMPARTMENT VENT FANS

NO.11

NO.12

NORTH OF PRI. SHIELDING
SOUTH OF PRI. SHIELDING
PRESSURIZER COMPARTMENT
EAST EL. AT 135 FEET
WEST EL. AT 135 FEET
DOME EL. AT 189 FEET

SEE NOTE 14

SEE NOTE 13

CRS CLOSES

CRS STOPS FAN

TEST CONN.

TO 1-CV-6574 OM-71 (H-6) 60-728-E SH.2

50,000 CFM

PURGE AIR SUPPLY
FOR HOT WATER SUPPLY SEE OM-71(J-5) 60-728-E SH.2

TO UNIT 1 MAIN EXHAUST DUCT OM-64 (J-12) 60-722-E SH.1

OM-98 (A-12) 60-738-E SH.1

PURGE AIR EXHAUST FILTER UNIT
50,000 CFM

OPEN VENT TO ROOF

ONE WAY WALL RELIEF DAMPER NORMALLY CLOSED

TO CONTAINMENT ATMOSPHERE RADIATION MONITOR-UNIT NO.1
OM-98 (B-8) 60-738-E SH.1

EAST PENETRATION RM

WEST PENETRATION ROOM

MAIN STEAM PENETRATION ROOM

TO LETDOWN ISOL. VALVE CKT.

UNIT 1 CONTAINMENT PURGE & PENETRATION VENT. SYSTEM
(SEE SHEET 3 FOR UNIT 2)

SERVICE WATER HEAT EXCH. ROOM AUX. BLDG.

VU-18A 6500 CFM

VU-18B 6500 CFM

"57" "57"

C.E.D.M. COOLER FANS

C.E.D.M. COOLING SHROUD

TO UNIT HTR. 1,2,3 & 4 OM-071 (B-1) 60728SH0002

(RETIRED IN PLACE)

REACTOR UNIT NO.1

TURBINE BUILDING VENTILATION SYSTEM
UNIT NO.1 & UNIT NO.2

TO UNIT HTR. 15,16 17 18 OM-71 (A-5) 60-728-E SH.1 OF 3

TO UNIT HTR. 13 & 14 OM-71 (A-11) 60-728-E SH.1 OF 3

TO UNIT HTR. 19, 20,21,22 23 OM-71 (H-5) 60-728-E SH.1

TO UNIT HTR. 9,10 11 & 12 OM-71 (F-5) 60-728-E SH.1 OF 3

TO UNIT HTR. 15A,16A,17A & 18A OM-71 (A-5 & A-10) 60-728-E SH.1

TO UNIT HTR. 13A & 14A OM-71 (B-11 & F-11) 60-728-E SH.1

TO UNIT HTR. 24,25,26 27 & 28 OM-71 (H-11) 60-728-E SH.1

GENERAL NOTES

1. FOR P. & I.D. LEGEND SEE DRAWING 6750-M-80, (B.G. & E. NO. 60-263-E).
2. FOR INSTRUMENT DATA SHEETS SEE 6750-M-500, (B.G. & E. NO.92-401-A THRU 92-422-B).
3. FOR EQUIPMENT LIST SEE 6750-M-603, B.G. & E. NO.92-722-A).
4. EQUIPMENT NUMBERS FOR UNIT NO.1 ARE PREFIXED BY THE NUMBER 1 (EXAMPLE NO.11, 12, 13, ETC.). EQUIPMENT NUMBERS FOR UNIT NO.2 ARE PREFIXED BY THE NUMBER 2 (EXAMPLE NO.21, 22, 23, ETC.). EQUIPMENT COMMON TO BOTH UNITS IS NUMBERED AS FOR UNIT NO.1.
5. FOR THE UNIT NO.2 CONTAINMENT VENTILATION SYSTEM P.& I.D. OF THE CAVITY COOLING SYSTEM, CEDM COOLING SYSTEM AND CTMT. CHARCOAL FILTERS NO.21, 22 & 23, REFER TO OM-065SH0003 (60723SH0003).
6. DELETED
7. NEUTRON DETECTOR WELLS NO.1, 2, 4, 6, 9, AND 11 HAVE THERMOCOUPLES TE001, TE002, TE004, TE006, TE009, AND TE011 INSTALLED BUT ARE NOT MONITORED BY TR 13 (23) AND TR 14 (24).
8. FOR DEFINITION OF LINE DESIGNATIONS SEE PIPING CLASS AND SUMMARY SHEETS 6750-M-600 & 601
9. THE Q-LIST INFORMATION PROVIDED ON THIS DRAWING IDENTIFIES THE SAFETY RELATED PRESSURE BOUNDARIES (SR-PB). EQUIPMENT WITHIN THE BOUNDARIES IS ALSO CLASSIFIED SR-PB, AS A MINIMUM. THE NUCLEIS MASTER EQUIPMENT LIST MUST BE USED FOR IDENTIFYING SPECIFIC OR ADDITIONAL SAFETY CLASSIFICATION INFORMATION, INCLUDING COMPONENT CLASSIFICATIONS AND ASSOCIATED REQUIREMENTS.
10. PIPING WHICH CONTINUES BEYOND THE SAFETY RELATED (SR-PB) BOUNDARY INDICATED ON THIS DRAWING, IS CLASSIFIED SR-PB UP TO AND INCLUDING THE FIRST SEISMIC ANCHOR.
11. ——— DENOTES SAFETY RELATED PRESSURE BOUNDARIES.
    ——— DENOTES NON-SAFETY RELATED PRESSURE BOUNDARIES.
12. A SEALED BLIND FLANGE IS INSTALLED AT UNIT 2 PENETRATIONS 13 & 14 DURING MODES 1-4 (OM-065SH0003).
13. A SEALED BLIND FLANGE IS INSTALLED AT UNIT 1 PENETRATIONS 13 & 14 DURING MODES 1-4.
14. UNIT NO. 1, 189 FOOT CONTAINMENT HYDROGEN SAMPLE LINE (1-SX-5900F) IS BENT AND NOT SUPPORTED PROPERLY, IT CANNOT BE USED FOR POST-ACCIDENT SAMPLING PER MCR 93-038-003-0.

FSAR FIG. NO.9-20

THIS DRAWING CREATED FROM OPERATIONS DRAWING 60-723-E SH.1 (OM-65), REV. 30, DATED 1-11-1994 & P&ID 60-248-E SH.1 (M-65), REV. 34, DATED 1-11-1994.

REV	DATE	DESCRIPTION	DWN	DSGN	DE	IR	APPROVED
55	11/16/04	AS BUILT DCN 60723SH0001-2003SH0001 & SH0002 ES1996014B7-000	WHR: RKL	—	—	—	RKL
56	12/14/04	AS BUILT DCN 60723SH0001-2009SH0001 ES2004007J3-000	WHR: RKL	—	—	—	RKL
57	4/25/06	AS BUILT DCN 60723SH0001-2010SH0001 ES2003003I2-000	WHR: RKL	—	—	—	RKL

VENTILATION SYSTEMS: CONTAINMENT, TURBINE AND PENETRATION ROOMS

CALVERT CLIFFS NUCLEAR POWER PLANT
ENGINEERING SERVICES DEPARTMENT
CALVERT CLIFFS UNIT 1&2 | SIZE E | CAT. C

SCALE: NONE | VENDOR DWG. NO. OM-065SH0001 | REV. 57

DWG. NO. 60723SH0001