









REVISION	14	FRAME	1
PIPING & INSTRUMENT DIAGRAM			
MAIN HEAT TRANSPORT			
LOOP No. 2 SYS 51			
H-4-11085			

See Loop  
for OPERATIONS  
DRAINING  
and FILLING  
PROCEDURE

COLD TRAP  
OR FILL  
(8)

11 ALL COMPONENT LEAK DETECTORS ARE WIRED BACK TO INDICATORS ON PANEL C102 WHERE A COMMON ALARM IS DERIVED AND WIRE TO THE PLANT ANNUNCIATOR SYSTEM. SEE SDO 95 PART 15.

12 ALL COMPONENT LEAK DETECTORS ARE WIRED BACK TO INDICATORS ON PANEL C111 WHERE A COMMON ALARM IS DERIVED AND WIRE TO THE PLANT ANNUNCIATOR SYSTEM. SEE SDO 95 PART 15.



REVISED PER ECN # 3015	15
REVISED PER ECN # 2793	14
REVISED PER ECN # 1868	13
REVISED PER ECN # 4201	12
REVISED PER ECN # 5768	11
REVISED PER ECN # 4201	10
REVISED PER ECN # 4201	9
REVISED PER ECN # 4201	8
REVISED PER ECN # 4201	7
REVISED PER ECN # 4201	6
REVISED PER ECN # 4201	5
REVISED PER ECN # 4201	4
REVISED PER ECN # 4201	3
REVISED PER ECN # 4201	2
REVISED PER ECN # 4201	1
REVISED PER ECN # 4201	0
REVISED PER ECN # 4201	-1
REVISED PER ECN # 4201	-2
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REVISED PER ECN # 4201	-99
REVISED PER ECN # 4201	-100

ENGINEERING RELEASE  
19 BY 420  
REV 1 DATE 5/1/99  
SNO 0-00-01



NEXT USED ON	
REFERENCE DRAWINGS	
NO.	DESCRIPTION
H-4-11086	MHTS LOOP #2 - DNR
H-4-12250	PRIMARY PUMP MONITORING INSTRUMENTATION
H-4-12251	SECONDARY PUMP MONITORING INSTRUMENTATION
H-4-11136	MHTS LOOP 2 DHA PREHEATER
H-4-11264	EOIR MHTS CONTROL SYS EQUIP
H-4-11019	HAID MHTS LOOP NO 1
H-4-11084	MHTS REACTOR VESSEL
H-4-11114	ARTS PROM. (D. H. V. S. MONIT)
H-4-11031	R. PR. H. A. PROCESS SYS
H-4-11033	R. SEC. H. A. PROCESS SYS
H-4-11042	AN. DISTR. OUTSIDE STMT
H-4-11117	AN. DISTR. PR. H. A. LOOP 1

# NOTES:

- DELETED
- ALL MANUAL VALVES ARE PREFIXED BY 51
- FOR PUMP INSTRUMENTATION REFER TO DHA H-4-12250 FOR PUMP NO. 1 AND DNR H-4-12251 FOR PUMP NO. 4
- POINT IDENTIFICATION PROVIDED FOR EACH MEASUREMENT
- FOR PREHEATING SYSTEM SEE SDD-93 PART 15.
- PIPING MATERIAL REF. SECOND N. CLAM DESIGNATION: 'C' IS 95 TYP 304H, 'E' DESIGNATES 95 TYP 304H
- AUTOMATIC SEQUENCE CONTROL & INTER-LOCKING IS SHOWN ON LOGIC DIAGRAMS H-4-11034, H-4-12297
- FOR ENGINEERING & PROCUREMENT RESPONSIBILITIES SEE REFERENCE DRAWING H-4-11264
- THIS DRAWING INCLUDES EQUIPMENT IDENTIFIED AS PART OF THE PLANT PROTECTION SYSTEM (PPS) BEFORE MODIFYING OR MAINTAINING THE EQUIPMENT SO IDENTIFIED, THE APPROVAL OF THE CONSULTANT PERSONNEL FOR THE PPS MUST BE OBTAINED
- CERTAIN EQUIPMENT SHOWN ON THIS DRAWING IS INCLUDED IN THE PLANT PROTECTION SYSTEM. THIS EQUIPMENT IS SPECIFICALLY IDENTIFIED ON THE DRAWING AS FOLLOWS:  
P DENOTES PRIMARY PROTECTION  
S DENOTES SECONDARY PROTECTION

10. FOR INSTR. & PIPING SYMBOLS & USAGE SEE LEGEND SHEETS H-4-11093, H-4-11094, H-4-11095, H-4-11096, H-4-11097, H-4-11098, H-4-11099

REVISED PER FCN H-0147, FCN 43234 FCN 5502	9
REVISED PER DCAO 64 FCN H-01	8
REVISED PER DTG 1-A-22, RELEASED PER ERO A1005	W-7
RELEASED PER ERO B-1552, 2-20-74	6
RELEASED PER ERO B-4573, 1-25-74	5
RELEASED PER ARD ERO C-09092, 3/3/74	4
RELEASED PER ARD ERO C-09356, 1/15/74	3
RELEASED PER ARD ERO C-09164, 9/5/73	2
RELEASED PER ARD ERO C-09164, 9/5/73	1
FOR APPROVAL	0

DATE	BY	DESCRIPTION
10/1/74	W-7	FOR APPROVAL

CONTRACT NO. 100-100000	CHECK NO. 100-100000
DRAWING T-1-A-128	

U. S. ATOMIC ENERGY COMMISSION	
RESEARCH AND OPERATIONS OFFICE	
NORTH ENGINEERING RESEARCH LABORATORY	
BECOTEL	
SAN FRANCISCO	
JOB NO. 5883	
PIPING & INSTRUMENT DIAGRAM	
MAIN HEAT TRANSPORT	
LOOP No. 2	
FAST FLUX TEST FACILITY	
405/4HW/4080	7004
H-4-11085	1