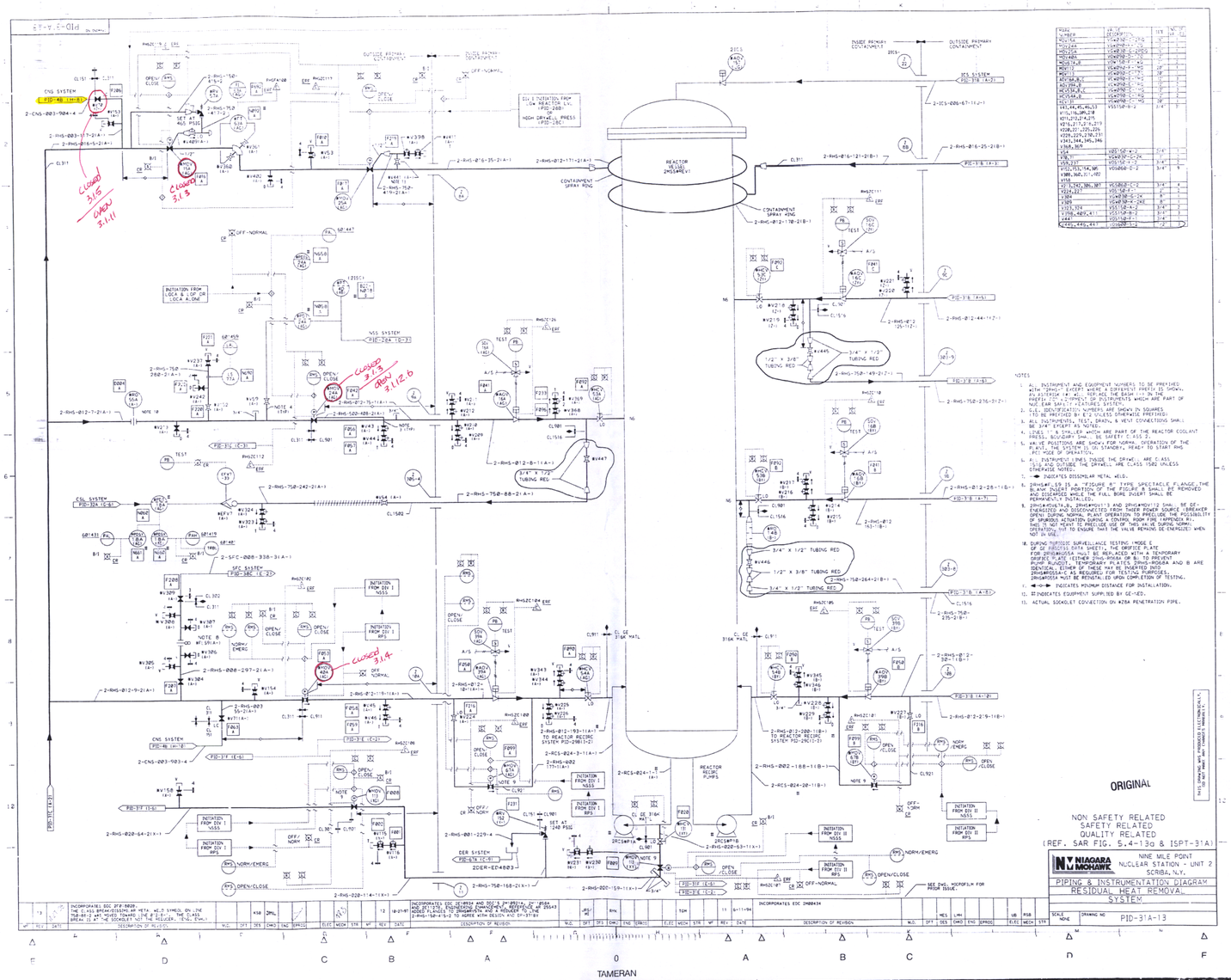

MARK NUMBER	VALVE DESCRIPTION	SIZE	VALVE CLASS
MOV124A	VC4N10D-C-2FLG	10"	1
MOV124B	VC4N10D-C-2FLG	10"	1
MOV125A	VC4N10D-O-2FLG	10"	1
MOV125B	VC4N10D-O-2FLG	10"	1
MOV48A	VC4N700-C-WD	20"	1
MOV48B	VC4N700-C-WD	20"	1
MOV112	VC4N700-C-WD	20"	1
MOV113	VC4N700-C-WD	20"	1
AOV86A,B,C	VC4N700-C-WD	20"	1
AOV39A,B	VC4N700-C-WD	20"	1
MOV53A,B,C	VC4N700-C-WD	20"	1
MOV54A,B	VC4N700-C-WD	20"	1
MOV51	VC4N700-C-WD	20"	1
V43,44,45,46,53 V115,116,205,218 V211,212,214,215 V216,217,218,219 V220,221,225,226 V228,229,270,271 V341,344,345,346 V368,369	VS51SP-B-2	3/4"	3
V58	VS51-SP-4-X	3/4"	1
V59,121	VC4N830P-C-2X	3/4"	1
V59,122	VS51-SP-4-X	3/4"	1
V102,103,104,105 V385,386,201,202	VC4N840-C-2	3/4"	3
V106			
V2,7,262,285,287	VC4N840-C-2	3/4"	4
V224,223	VS51-SP-4-X	3/4"	2
V304	VC4N700-C-2X	8"	1
V309	VC4N700-C-2X	8"	1
V343,324	VS51SP-4-X	3/4"	2
V398,402,401	VS51-SP-4-X	3/4"	2
V441	VS51-SP	3/4"	1
V442,443,441	VC4N840-C-2	3/4"	1

NOTES

1. ALL INSTRUMENT AND EQUIPMENT NUMBERS TO BE PREFIXED WITH "2MS-" EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN. AN ASTERISK (*) ALL REFERENCE DESIGNATIONS WHICH ARE PART OF THE "2MS-" SYSTEM. EXCEPT WHERE A DIFFERENT PREFIX IS SHOWN.
2. G.E. IDENTIFICATION NUMBERS ARE SHOWN IN SQUARES (TO BE PREFIXED BY E12 UNLESS OTHERWISE PREFIXED)
3. ALL INSTRUMENTS, TEST, DRAIN, & VENT CONNECTIONS SHALL BE 3/4" EXCEPT AS NOTED.
4. LINES 1" & SMALLER WHICH ARE PART OF THE REACTOR COOLANT PRESS. BOUNDARY SHALL BE SAFETY CLASS 2.
5. VALVE POSITIONS ARE SHOWN FOR NORMAL OPERATION OF THE PLANT. THE SYSTEM IS ON STANDBY, READY TO START RHS JET MODE OF OPERATION.
6. ALL INSTRUMENT LINES INSIDE THE DRYWELL ARE CLASS 1516 UNLESS OTHERWISE NOTED. OUTSIDE THE DRYWELL ARE CLASS 1502 UNLESS OTHERWISE NOTED.
7. ◆ INDICATES DISSIMILAR METAL WELD.
8. 2RHS*MF-150 IS A "FIGURE 8" TYPE SPECTACLE FLANGE. THE FLANGE SHALL BE INSTALLED WHILE THE PLUG SHALL BE REMOVED AND DISCARDED WHILE THE FULL BORE INSERT SHALL BE PERMANENTLY INSTALLED.
9. 2RHS*AOV39A,B, 2RHS*MOV112 AND 2RHS*MOV113 SHALL BE DE-ENERGIZED AND DISCONNECTED FROM THEIR POWER SOURCE (BREAKER OPEN) DURING NORMAL PLANT OPERATION TO PREELUDE THE POSSIBILITY OF SPURIOUS ACTUATION DURING A COUNTER-FLOW FIRE (APPENDIX R). THE SAME CONDITION WILL BE MAINTAINED DURING THE RHR JET MODE OPERATION, BUT TO ENSURE THAT THE VALVE REMAINS DE-ENERGIZED WHEN NOT IN USE.
10. DURING PERIODIC SURVEILLANCE TESTING (MODE E OF GE SPECIFICATION SHEET), THE ORIFICE PLATE FOR 2RHS*MV105A SHALL BE REPLACED WITH A TEMPORARY ORIFICE PLATE (EITHER 2RHS-RO68A OR B). TO PREVENT PUMP RUNOUT, TEMPORARY PLATES 2RHS-RO68A AND B ARE IDENTICAL. EITHER OF THESE MAY BE INSERTED INTO 2RHS*MV105A DURING MODE E TESTING OR JET MODE OPERATION. 2RHS*RO68A MUST BE REINSTALLED UPON COMPLETION OF TESTING.
11. ◆◆ INDICATES MINIMUM DISTANCE FOR INSTALLATION.
12. ⊠ INDICATES EQUIPMENT SUPPLIED BY GE-NED.
13. ACTUAL SOCKOLET COVERTION ON W28A PENETRATION PIPE.

ORIGINAL

NON SAFETY RELATED
SAFETY RELATED
QUALITY RELATED
(REF. SAR FIG. 5.4-13a & ISPT-31A)

NIAGARA MOHAWK

NINE MILE POINT
NUCLEAR STATION - UNIT 2
SCRIBA, N.Y.

PIPING & INSTRUMENTATION DIAGRAM
RESIDUAL HEAT REMOVAL
SYSTEM

SCALE NONE | DRAWING NO PID-31A-13

TAMERAN

D-10