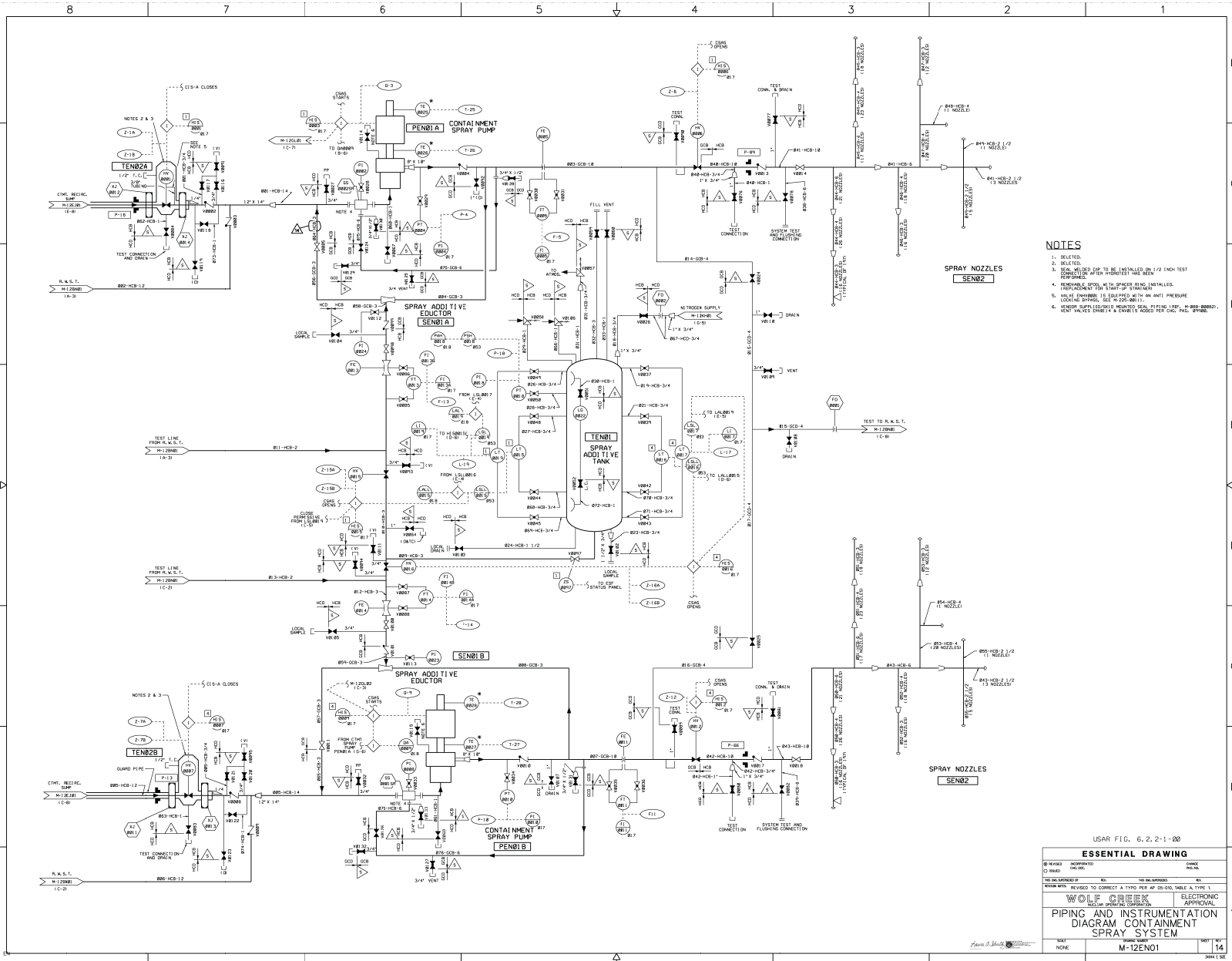




NOTES

- 1. DELETED.
- 2. DELETED.
- 3. DELETED.
- 4. REMOVED SPRAY NOZZLES SPRAYED BY TEST PROCEDURE.
- 5. VALVE REMOVED IS EQUIPPED WITH AN ANTI PROCEDURE.
- 6. VALVE REMOVED IS EQUIPPED WITH AN ANTI PROCEDURE.

USAR FIG. 6.2.2-1-00			
ESSENTIAL DRAWING			
REVISION	DATE	BY	APPROVAL
1	10/10/00	WOLF CREEK	WOLF CREEK
PUMPING AND INSTRUMENTATION			
DIAGRAM CONTAINMENT			
SPRAY SYSTEM			
DATE	TIME	BY	NO.
10/10/00	14	M-12EN01	14

1307.0147		1212.1.0.0		1212.1.0.0	
1339.0000		1212.1.0.0		1212.1.0.0	

REMARKS SEE DWG. W-08201.
 ENOS (M-08205).

BE USED BY THE CONSTRUCTOR
 SPRAY NOZZLES: NOZZLE
 TYPING: TURNING CLOCKWISE BY
 90 DEGREES ON STANDARD
 TURNING CLOTTING UNIT.
 IS OBTAINED, ONCE LOCATED
 SHALL BE MARKED ON THE
 75% THE PROPER ALIGNMENT
 NOZZLES OF TURNING
 WILL THEN BE NECESSARY TO
 AND FROM WELD TWO PLACES
 BEING LOCATED. A & B
 WHEN POSITIONING NOZZLES.

COMPARED TO DETAILS 1 & 2.
 HORIZONTAL 65° ANGLE
 OF SPRAY NOZZLES SEE

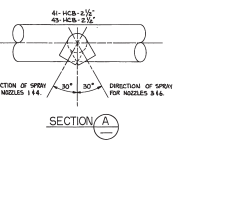
USAR FIG. 6.2.2-2-02
ESSENTIAL DRAWING

REVISED		DRAWN	
BY: (0202-000102)		BY: (0202-000102)	
DATE: 02/02/02		DATE: 02/02/02	

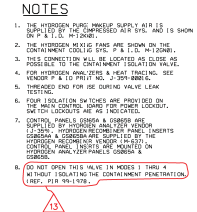
OLF CREEK

ELECTRONIC APPROVAL

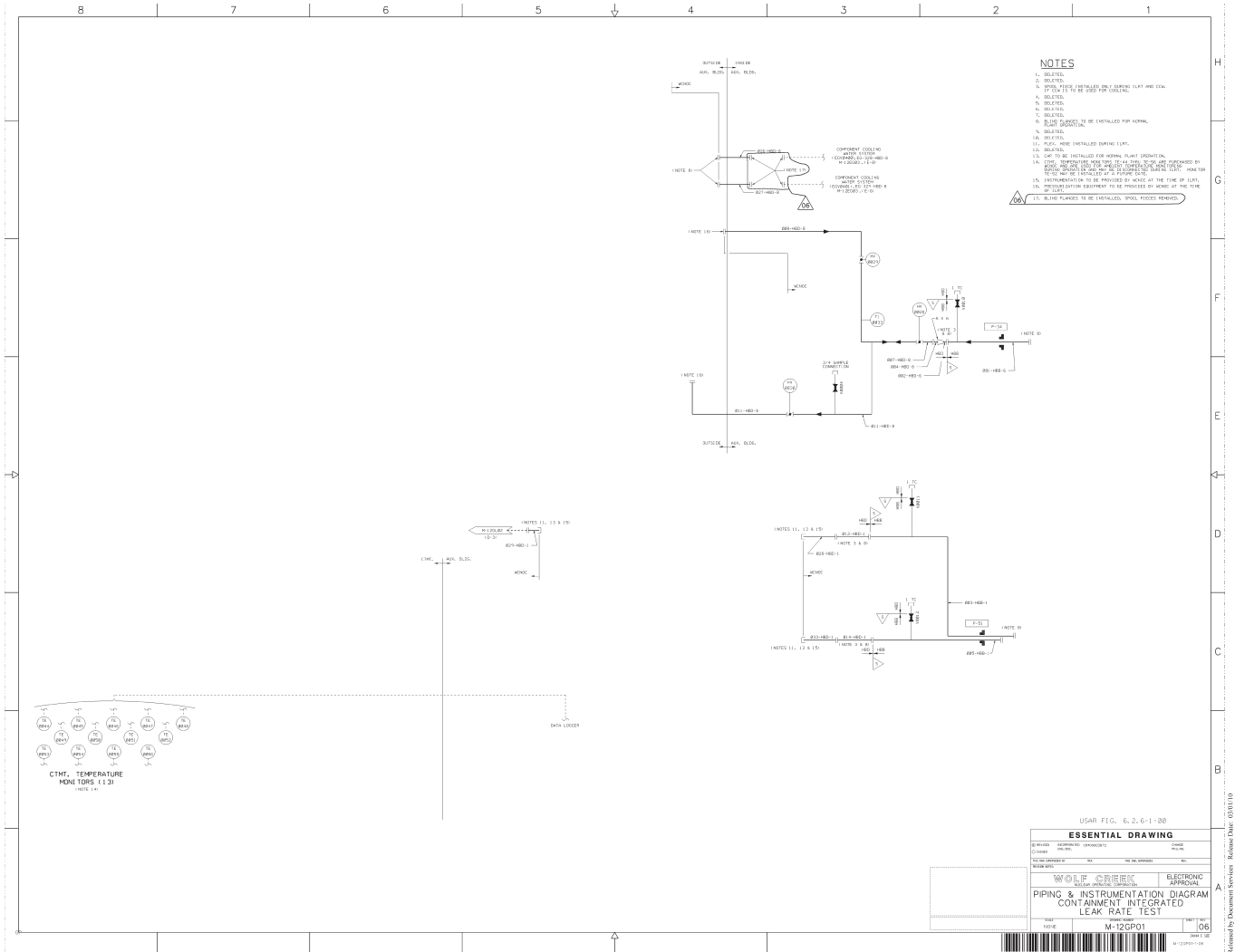
**PIPING ORTHOGRAPHIC
 CONTAINMENT SPRAY SYSTEM
 FOR BUILDING "A" & "B" TRAINS**

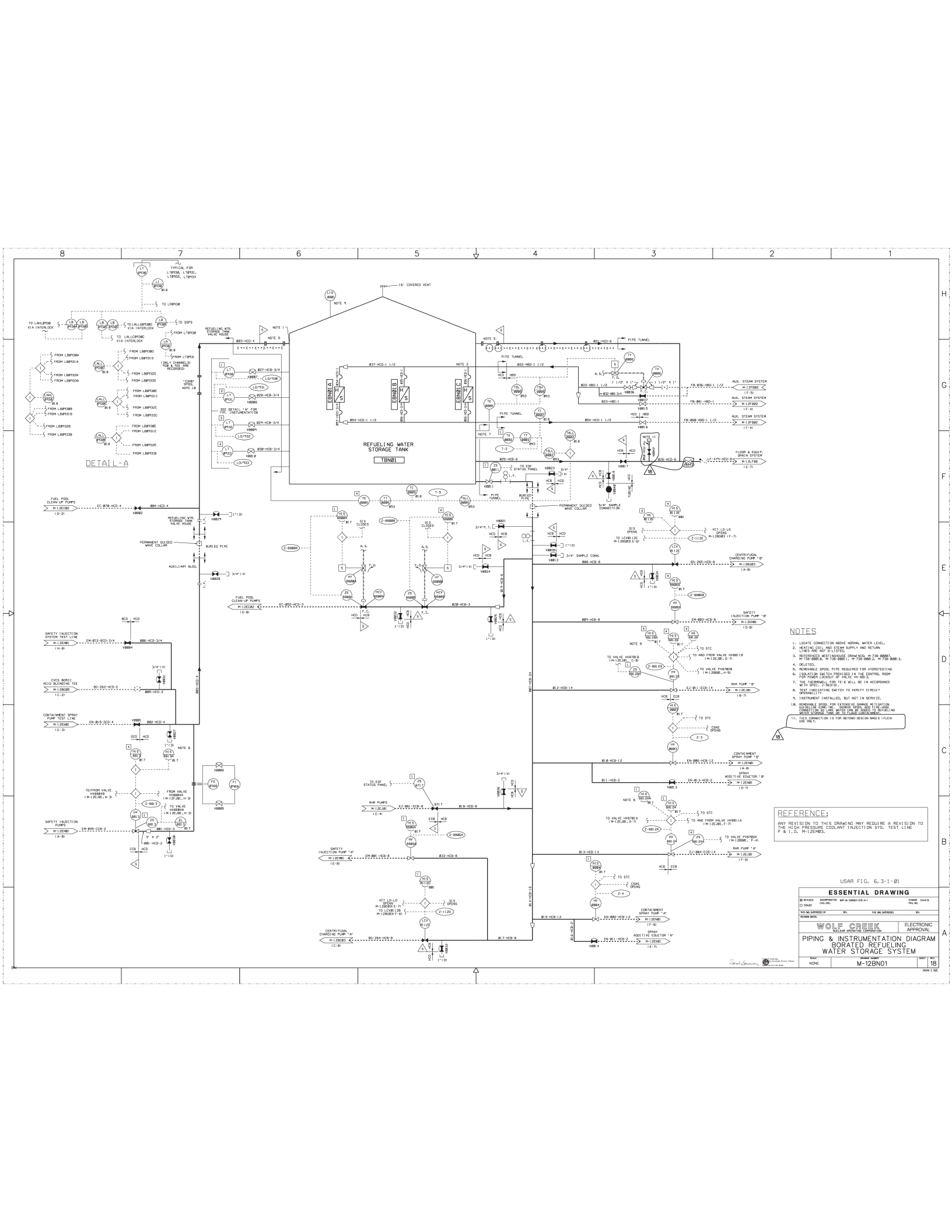


- DWG. M-03EN04 REV.1.
- 2
- USAR FIG. 6.2.2
- ESSENTIAL DATA**
- ☐ REVISIONS ☐ IMPROVEMENTS
☐ ISSUED ☐ CANCELLED
- TITLE DWG. APPROVED BY _____ REV. _____ FILE NO. _____
- REVISION NOTES _____
- DET. CR. 1087-000/02



ESSENTIAL DRAWING			
① REVISION	INCORPORATED ON 0006340	CHANGE	
② ISSUED	ON 01.01.01	FILE NO.	
THIS WAS SUPERSEDED BY		THIS WAS SUPERSEDED BY	FILE
REASON NOTED			
WOLF CREEK NUCLEAR OPERATING CORPORATION			ELECTRONIC APPROVAL
PIPING & INSTRUMENTATION DIAGRAM CONTAINMENT HYDROGEN CONTROL SYSTEM			
SCALE	DRAWING NUMBER	SHEET	REV
NONE	M-12GS01	13	C
			3408 E 13





- NOTES**
- 1. LOCATE CONNECTION ABOVE NORMAL WATER LEVEL.
 - 2. HEATING COIL AND STEAM SUPPLY AND RETURN.
 - 3. INTERLOCKED WITH INHALE CHANNELS ON THE INHALE.
 - 4. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 5. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 6. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 7. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 8. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 9. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 10. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 11. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 12. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 13. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 14. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 15. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 16. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 17. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.
 - 18. REMOVABLE SPOOL PIPE REQUIRED FOR HYDROTESTING.

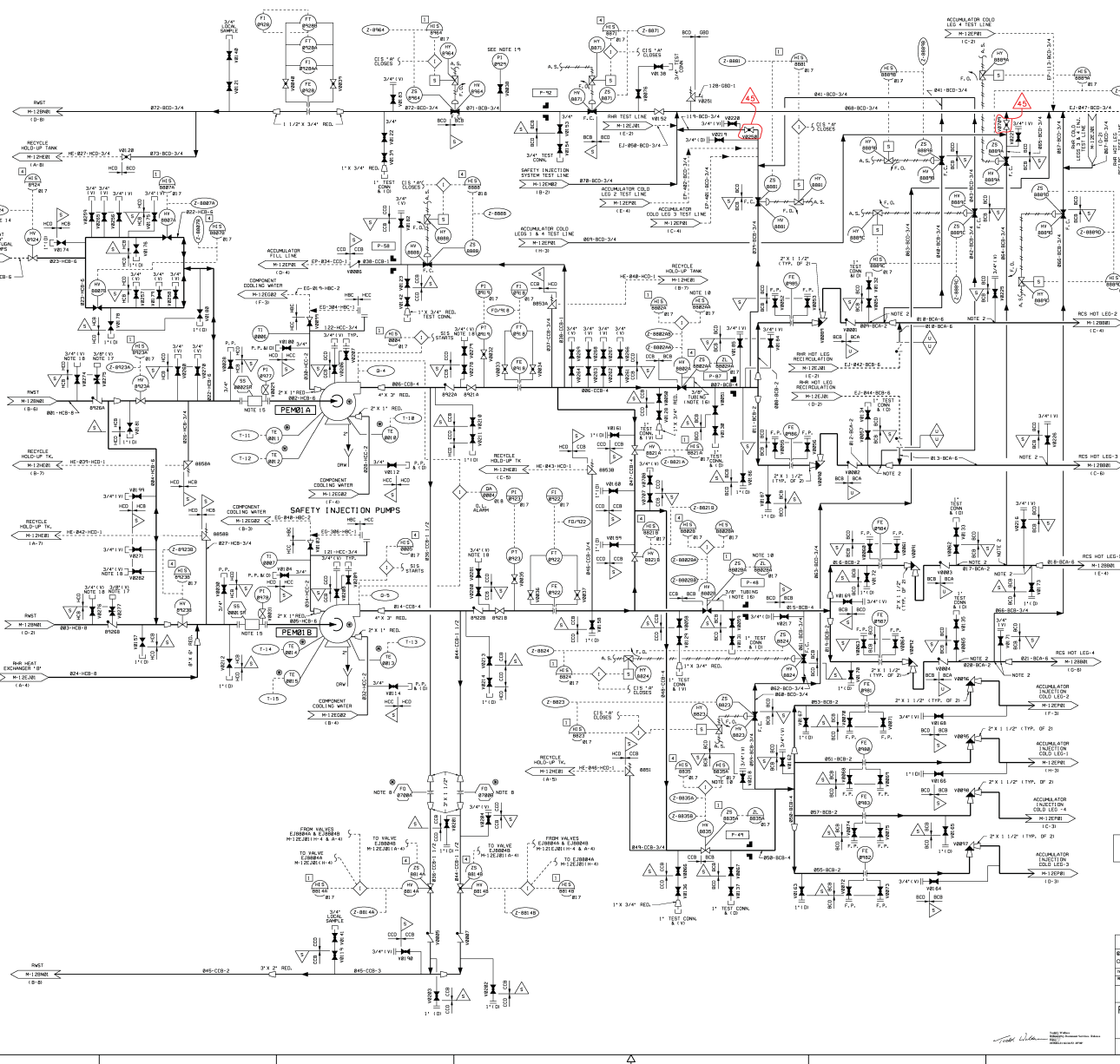
REFERENCE:

ANY REVISION TO THIS DRAWING MAY REQUIRE A REVISION TO THE HIGH PRESSURE COOLANT INJECTION SYS. TEST LINE. P & I D. M-122483.

USAR FIG. 6.3-1-01

ESSENTIAL DRAWING			
REVISION	DATE	BY	CHKD
1	10/10/01	WOLF CREEK	WOLF CREEK
WOLF CREEK			
PIPING & INSTRUMENTATION		ELECTRONIC	
BORATED REFUELING		APPROVAL	
WATER STORAGE SYSTEM			
M-122483		18	

8 7 6 5 4 3 2 1



- NOTES**
1. DELETED
 2. DELETED
 3. DELETED
 4. DELETED
 5. DELETED
 6. DELETED
 7. DELETED
 8. DELETED
 9. DELETED
 10. DELETED
 11. DELETED
 12. DELETED
 13. DELETED
 14. DELETED
 15. DELETED
 16. DELETED
 17. DELETED
 18. DELETED
 19. DELETED
 20. DELETED
 21. DELETED
 22. DELETED
 23. DELETED
 24. DELETED
 25. DELETED
 26. DELETED
 27. DELETED
 28. DELETED
 29. DELETED
 30. DELETED
 31. DELETED
 32. DELETED
 33. DELETED
 34. DELETED
 35. DELETED
 36. DELETED
 37. DELETED
 38. DELETED
 39. DELETED
 40. DELETED
 41. DELETED
 42. DELETED
 43. DELETED
 44. DELETED
 45. DELETED
 46. DELETED
 47. DELETED
 48. DELETED
 49. DELETED
 50. DELETED
 51. DELETED
 52. DELETED
 53. DELETED
 54. DELETED
 55. DELETED
 56. DELETED
 57. DELETED
 58. DELETED
 59. DELETED
 60. DELETED
 61. DELETED
 62. DELETED
 63. DELETED
 64. DELETED
 65. DELETED
 66. DELETED
 67. DELETED
 68. DELETED
 69. DELETED
 70. DELETED
 71. DELETED
 72. DELETED
 73. DELETED
 74. DELETED
 75. DELETED
 76. DELETED
 77. DELETED
 78. DELETED
 79. DELETED
 80. DELETED
 81. DELETED
 82. DELETED
 83. DELETED
 84. DELETED
 85. DELETED
 86. DELETED
 87. DELETED
 88. DELETED
 89. DELETED
 90. DELETED
 91. DELETED
 92. DELETED
 93. DELETED
 94. DELETED
 95. DELETED
 96. DELETED
 97. DELETED
 98. DELETED
 99. DELETED
 100. DELETED

ANY REVISION TO THIS DRAWING MAY REQUIRE A REVISION TO M-12EMD01.

USAR FIG. 6.3-1-82

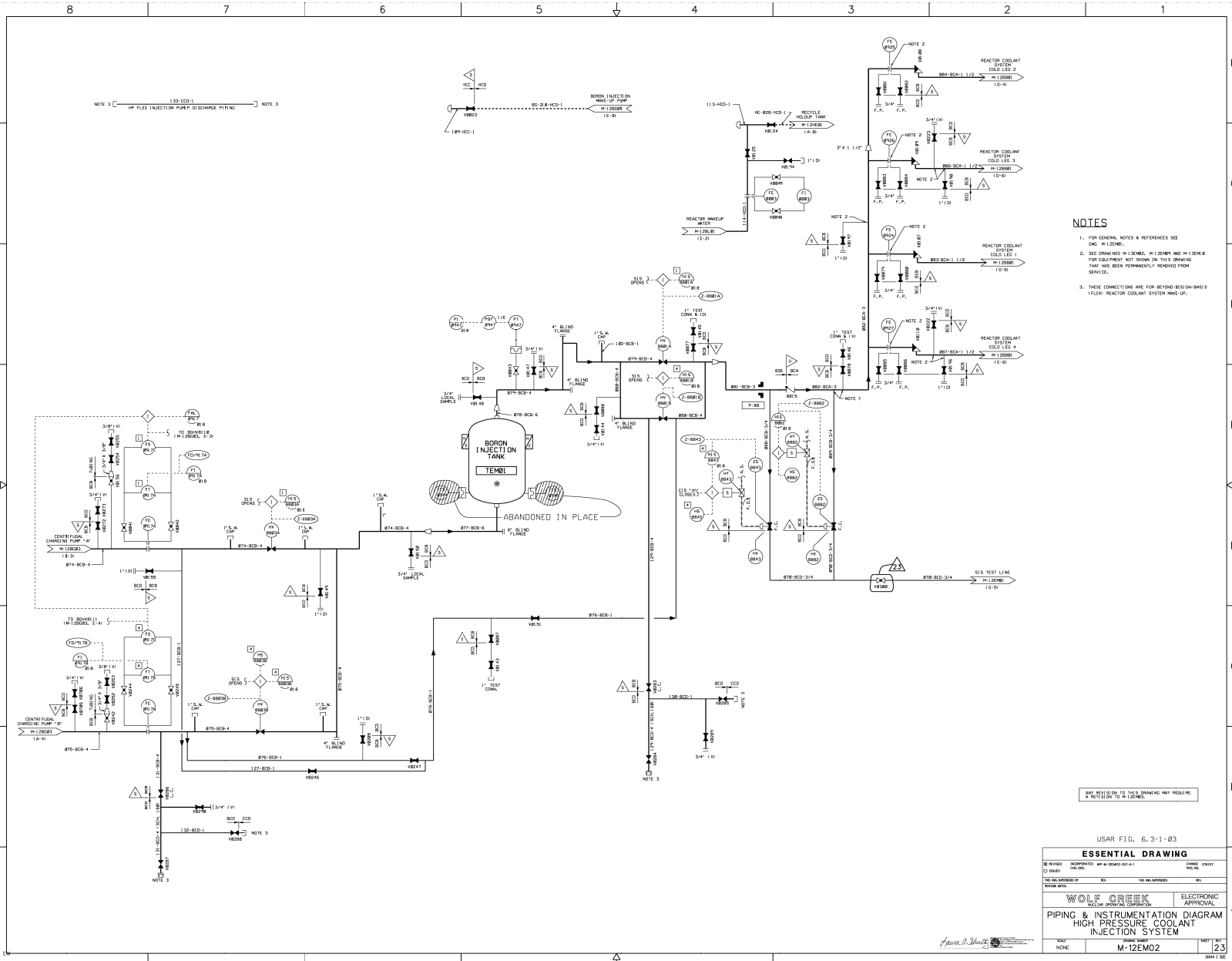
ESSENTIAL DRAWING

DESIGNED BY	WOLF CREEK	DATE	12/15/01
CHECKED BY	WOLF CREEK	DATE	12/15/01
APPROVED BY	WOLF CREEK	DATE	12/15/01
REVISIONS	REV. PER M-12EMD01	DATE	12/15/01

WOLF CREEK
PIPING & INSTRUMENTATION DIAGRAM
HIGH PRESSURE COOLANT
INJECTION SYSTEM

TEXT: M-12EMD01

SHEET: 45

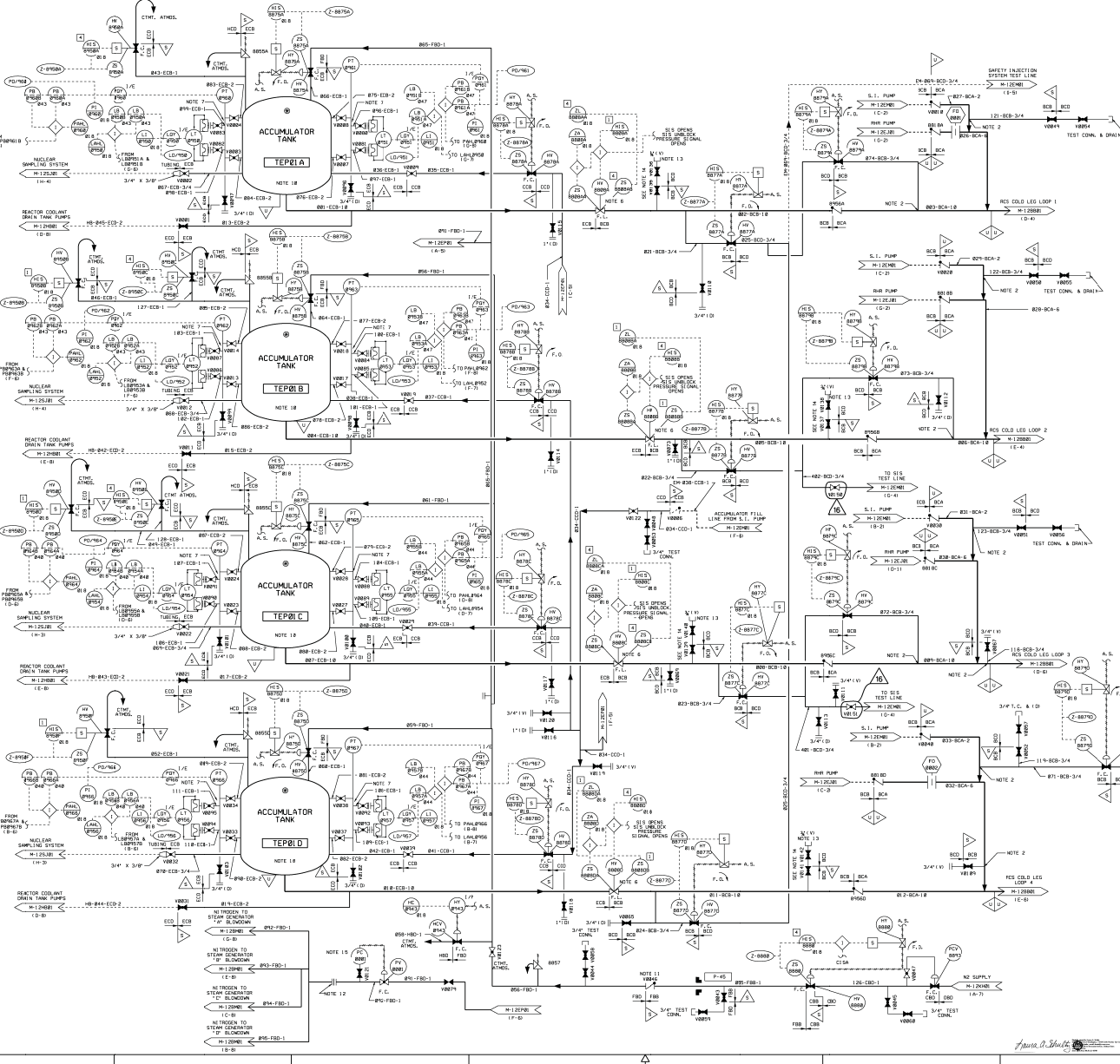


- NOTES
1. FOR GENERAL NOTES & REFERENCES SEE DWG. M-120001.
 2. SEE DIMENSIONS M-120001, M-120002 AND M-120003 FOR EQUIPMENT NOT SHOWN ON THIS DRAWING THAT HAS BEEN PERMANENTLY REMOVED FROM SERVICE.
 3. THESE CONNECTIONS ARE FOR REACTOR-BORON BASED (FLEX) REACTOR COOLANT SYSTEM MAKE-UP.

ANY REVISION TO THIS DRAWING MUST BE APPROVED BY THE DESIGNER.

USAR FIG. 6, 3-1-03			
ESSENTIAL DRAWING			
REVISION	DATE	BY	CHKD
1	10/01/03	WOLF CREEK	WOLF CREEK
2	10/01/03	WOLF CREEK	WOLF CREEK
3	10/01/03	WOLF CREEK	WOLF CREEK
4	10/01/03	WOLF CREEK	WOLF CREEK
5	10/01/03	WOLF CREEK	WOLF CREEK
6	10/01/03	WOLF CREEK	WOLF CREEK
7	10/01/03	WOLF CREEK	WOLF CREEK
8	10/01/03	WOLF CREEK	WOLF CREEK
9	10/01/03	WOLF CREEK	WOLF CREEK
10	10/01/03	WOLF CREEK	WOLF CREEK
11	10/01/03	WOLF CREEK	WOLF CREEK
12	10/01/03	WOLF CREEK	WOLF CREEK
13	10/01/03	WOLF CREEK	WOLF CREEK
14	10/01/03	WOLF CREEK	WOLF CREEK
15	10/01/03	WOLF CREEK	WOLF CREEK
16	10/01/03	WOLF CREEK	WOLF CREEK
17	10/01/03	WOLF CREEK	WOLF CREEK
18	10/01/03	WOLF CREEK	WOLF CREEK
19	10/01/03	WOLF CREEK	WOLF CREEK
20	10/01/03	WOLF CREEK	WOLF CREEK
21	10/01/03	WOLF CREEK	WOLF CREEK
22	10/01/03	WOLF CREEK	WOLF CREEK
23	10/01/03	WOLF CREEK	WOLF CREEK
24	10/01/03	WOLF CREEK	WOLF CREEK
25	10/01/03	WOLF CREEK	WOLF CREEK
26	10/01/03	WOLF CREEK	WOLF CREEK
27	10/01/03	WOLF CREEK	WOLF CREEK
28	10/01/03	WOLF CREEK	WOLF CREEK
29	10/01/03	WOLF CREEK	WOLF CREEK
30	10/01/03	WOLF CREEK	WOLF CREEK
31	10/01/03	WOLF CREEK	WOLF CREEK
32	10/01/03	WOLF CREEK	WOLF CREEK
33	10/01/03	WOLF CREEK	WOLF CREEK
34	10/01/03	WOLF CREEK	WOLF CREEK
35	10/01/03	WOLF CREEK	WOLF CREEK
36	10/01/03	WOLF CREEK	WOLF CREEK
37	10/01/03	WOLF CREEK	WOLF CREEK
38	10/01/03	WOLF CREEK	WOLF CREEK
39	10/01/03	WOLF CREEK	WOLF CREEK
40	10/01/03	WOLF CREEK	WOLF CREEK
41	10/01/03	WOLF CREEK	WOLF CREEK
42	10/01/03	WOLF CREEK	WOLF CREEK
43	10/01/03	WOLF CREEK	WOLF CREEK
44	10/01/03	WOLF CREEK	WOLF CREEK
45	10/01/03	WOLF CREEK	WOLF CREEK
46	10/01/03	WOLF CREEK	WOLF CREEK
47	10/01/03	WOLF CREEK	WOLF CREEK
48	10/01/03	WOLF CREEK	WOLF CREEK
49	10/01/03	WOLF CREEK	WOLF CREEK
50	10/01/03	WOLF CREEK	WOLF CREEK
51	10/01/03	WOLF CREEK	WOLF CREEK
52	10/01/03	WOLF CREEK	WOLF CREEK
53	10/01/03	WOLF CREEK	WOLF CREEK
54	10/01/03	WOLF CREEK	WOLF CREEK
55	10/01/03	WOLF CREEK	WOLF CREEK
56	10/01/03	WOLF CREEK	WOLF CREEK
57	10/01/03	WOLF CREEK	WOLF CREEK
58	10/01/03	WOLF CREEK	WOLF CREEK
59	10/01/03	WOLF CREEK	WOLF CREEK
60	10/01/03	WOLF CREEK	WOLF CREEK
61	10/01/03	WOLF CREEK	WOLF CREEK
62	10/01/03	WOLF CREEK	WOLF CREEK
63	10/01/03	WOLF CREEK	WOLF CREEK
64	10/01/03	WOLF CREEK	WOLF CREEK
65	10/01/03	WOLF CREEK	WOLF CREEK
66	10/01/03	WOLF CREEK	WOLF CREEK
67	10/01/03	WOLF CREEK	WOLF CREEK
68	10/01/03	WOLF CREEK	WOLF CREEK
69	10/01/03	WOLF CREEK	WOLF CREEK
70	10/01/03	WOLF CREEK	WOLF CREEK
71	10/01/03	WOLF CREEK	WOLF CREEK
72	10/01/03	WOLF CREEK	WOLF CREEK
73	10/01/03	WOLF CREEK	WOLF CREEK
74	10/01/03	WOLF CREEK	WOLF CREEK
75	10/01/03	WOLF CREEK	WOLF CREEK
76	10/01/03	WOLF CREEK	WOLF CREEK
77	10/01/03	WOLF CREEK	WOLF CREEK
78	10/01/03	WOLF CREEK	WOLF CREEK
79	10/01/03	WOLF CREEK	WOLF CREEK
80	10/01/03	WOLF CREEK	WOLF CREEK
81	10/01/03	WOLF CREEK	WOLF CREEK
82	10/01/03	WOLF CREEK	WOLF CREEK
83	10/01/03	WOLF CREEK	WOLF CREEK
84	10/01/03	WOLF CREEK	WOLF CREEK
85	10/01/03	WOLF CREEK	WOLF CREEK
86	10/01/03	WOLF CREEK	WOLF CREEK
87	10/01/03	WOLF CREEK	WOLF CREEK
88	10/01/03	WOLF CREEK	WOLF CREEK
89	10/01/03	WOLF CREEK	WOLF CREEK
90	10/01/03	WOLF CREEK	WOLF CREEK
91	10/01/03	WOLF CREEK	WOLF CREEK
92	10/01/03	WOLF CREEK	WOLF CREEK
93	10/01/03	WOLF CREEK	WOLF CREEK
94	10/01/03	WOLF CREEK	WOLF CREEK
95	10/01/03	WOLF CREEK	WOLF CREEK
96	10/01/03	WOLF CREEK	WOLF CREEK
97	10/01/03	WOLF CREEK	WOLF CREEK
98	10/01/03	WOLF CREEK	WOLF CREEK
99	10/01/03	WOLF CREEK	WOLF CREEK
100	10/01/03	WOLF CREEK	WOLF CREEK

8 7 6 5 4 3 2 1



NOTES

1. ALL MEASUREMENTS IN THIS SECTION ARE CLASS 1 COMPONENTS AND MUST BE MAINTAINED AT ALL TIMES. THE SAFETY OF THE REACTOR DEPENDS ON THE PROPER OPERATION OF THESE COMPONENTS. THE SAFETY OF THE REACTOR DEPENDS ON THE PROPER OPERATION OF THESE COMPONENTS. THE SAFETY OF THE REACTOR DEPENDS ON THE PROPER OPERATION OF THESE COMPONENTS.
2. PROVIDE 3/4" I.D. FLOW RESTRICTION FOR INTERMEDIATE REACTOR COOLANT PUMP (RCP) OPERATION. THE RESTRICTION SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE. THE RESTRICTION SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE. THE RESTRICTION SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE.
3. THIS DRAWING IS A SAFETY CRITICAL DRAWING. IT SHALL BE MAINTAINED AT ALL TIMES. THE SAFETY OF THE REACTOR DEPENDS ON THE PROPER OPERATION OF THESE COMPONENTS. THE SAFETY OF THE REACTOR DEPENDS ON THE PROPER OPERATION OF THESE COMPONENTS. THE SAFETY OF THE REACTOR DEPENDS ON THE PROPER OPERATION OF THESE COMPONENTS.
4. DELETED.
5. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE.
6. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE.
7. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE.
8. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE. THE REACTOR COOLANT PUMP (RCP) BREWERS SHALL BE LOCATED IN THE REACTOR COOLANT PUMP DISCHARGE LINE.

USAR FIG. 6.3-1-04

ESSENTIAL DRAWING

REVISION	DESCRIPTION	DATE	BY	APPROVED
1	ISSUED	04-01-04	04-01-04	04-01-04

WOLF CREEK
NATURAL ENERGY CORPORATION

PIPING & INSTRUMENTATION DIAGRAM
ACCUMULATOR SAFETY INJECTION

SCALE: NONE

DATE: M-12EP01

SHEET: 16

OF: 16