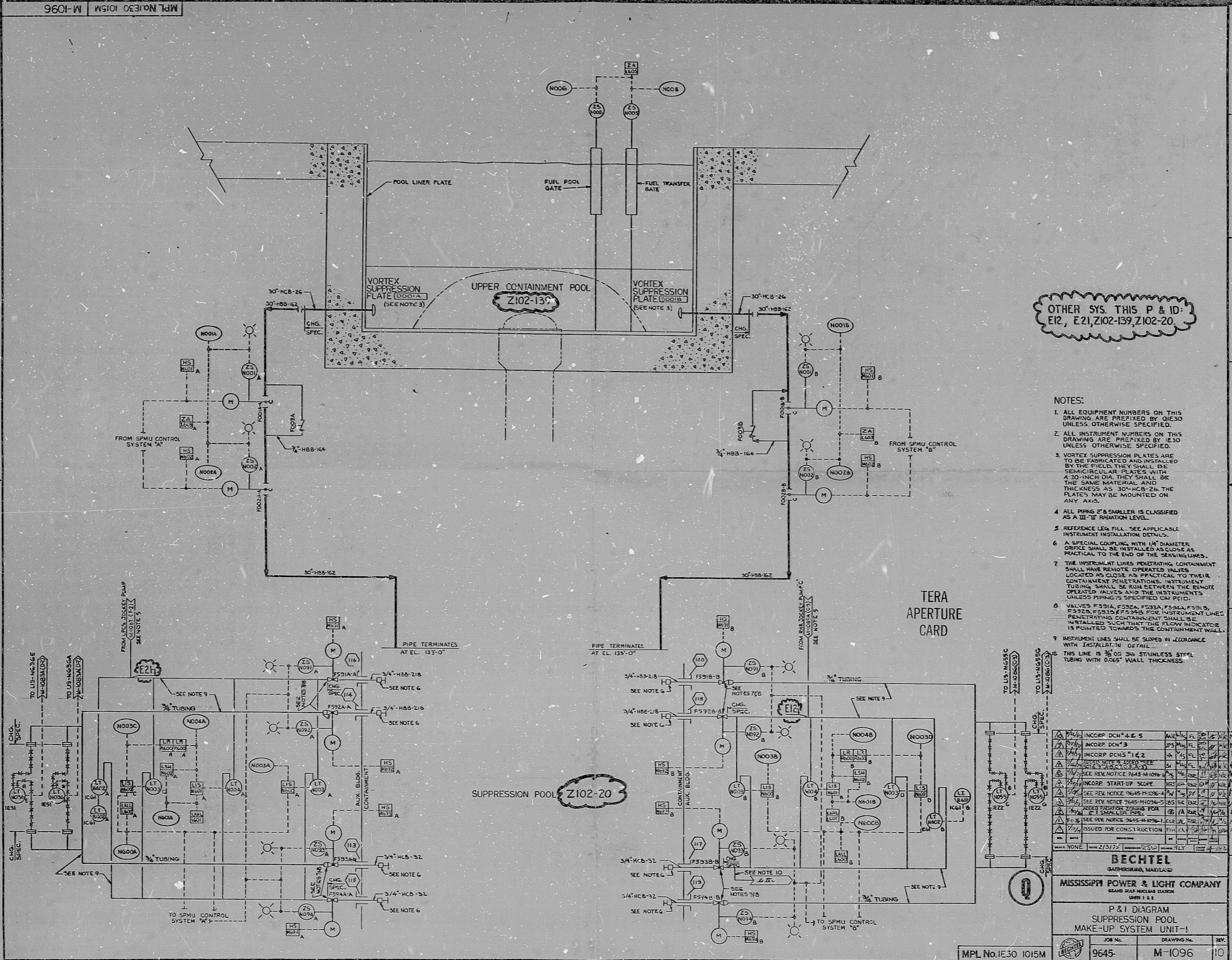


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OTHER SYS. THIS P & I:
E12, E21, Z102-139, Z102-20

- NOTES:
1. ALL EQUIPMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY QIES30 UNLESS OTHERWISE SPECIFIED.
 2. ALL INSTRUMENT NUMBERS ON THIS DRAWING ARE PREFIXED BY IE30 UNLESS OTHERWISE SPECIFIED.
 3. VORTEX SUPPRESSION PLATES ARE TO BE FABRICATED AND INSTALLED BY THE FIELD. THEY SHALL BE SEMICIRCULAR PLATES WITH A 30-INCH DIA. THEY SHALL BE THE SAME MATERIAL AND THICKNESS AS 30"-HCB-26. THE PLATES MAY BE MOUNTED ON ANY AXIS.
 4. ALL PIPING 2" & SMALLER IS CLASSIFIED AS A III-B RADIATION LEVEL.
 5. REFERENCE LEG FILL - SEE APPLICABLE INSTRUMENT INSTALLATION DETAILS.
 6. A SPECIAL COUPLING WITH 1/4" DIAMETER ORIFICE SHALL BE INSTALLED AS CLOSE AS PRACTICAL TO THE END OF THE SENSING LINES.
 7. THE INSTRUMENT LINES PENETRATING CONTAINMENT SHALL HAVE REMOTE OPERATED VALVES LOCATED AS CLOSE AS PRACTICAL TO THEIR CONTAINMENT PENETRATIONS. INSTRUMENT TUBING SHALL BE RUN BETWEEN THE REMOTE OPERATED VALVES AND THE INSTRUMENTS UNLESS PIPING IS SPECIFIED ON P&ID.
 8. VALVES F591A, F592A, F593A, F594A, F591B, F592B, F593B, F594B FOR INSTRUMENT LINES PENETRATING CONTAINMENT SHALL BE INSTALLED SUCH THAT THE FLOW INDICATOR IS POINTED TOWARDS THE CONTAINMENT WALL.
 9. INSTRUMENT LINES SHALL BE SLOPED IN ACCORDANCE WITH INSTALLATION DETAIL.
 10. THIS LINE IS 3/8" OD 316 STAINLESS STEEL TUBING WITH 1/8" WALL THICKNESS.

INCORP DCN # 5	REV	DATE	BY	CHK
INCORP DCN # 3	1	11/12/68	WJ	WJ
INCORP DCN # 1 & 2	2	11/12/68	WJ	WJ
SEE REV NOTICE 9645-11016	3	11/12/68	WJ	WJ
INCORP STARTUP SCOPE	4	11/12/68	WJ	WJ
SEE REV NOTICE 9645-11026-4	5	11/12/68	WJ	WJ
SEE REV NOTICE 9645-11026-5	6	11/12/68	WJ	WJ
SEE REV NOTICE 9645-11026-6	7	11/12/68	WJ	WJ
SEE REV NOTICE 9645-11026-7	8	11/12/68	WJ	WJ
ISSUED FOR CONSTRUCTION	9	11/12/68	WJ	WJ

BECHTEL
SANTO DOMINGO, DOMINICAN REPUBLIC

MISSISSIPPI POWER & LIGHT COMPANY
GRAND RAPID NUCLEAR STATION

P&I DIAGRAM
SUPPRESSION POOL
MAKE-UP SYSTEM UNIT-1

JOB NO. 9645- DRAWING NO. M-1096 REV. 10

MPL No. IE30 1015M

I certify that the design on this form was made in the normal and regular course of business, on the date stated below and that it is an accurate representation of the design as submitted to the client.

30X

8011280070

PDR

8011280670

