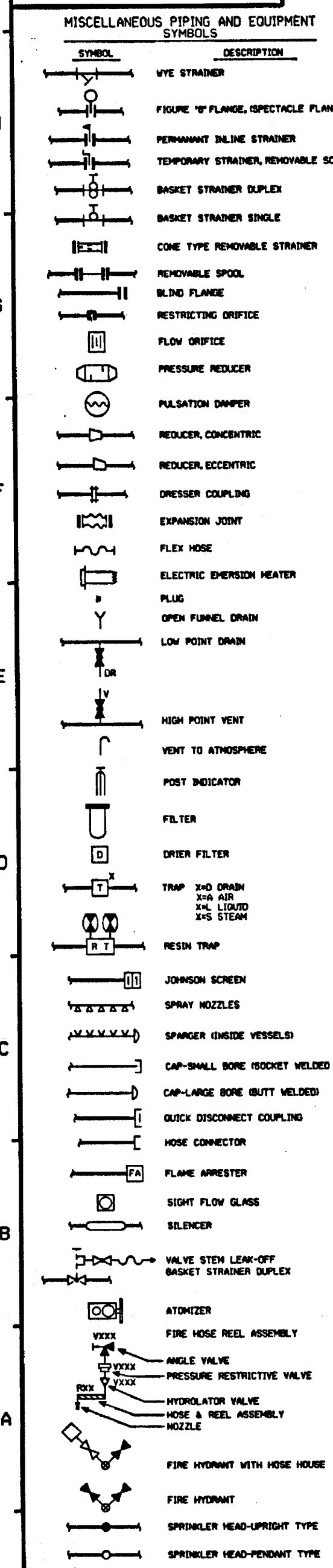
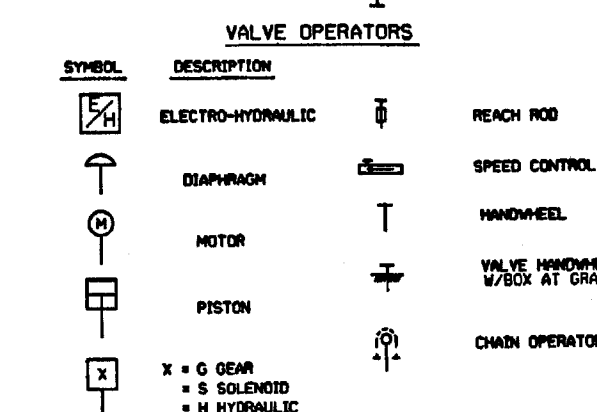
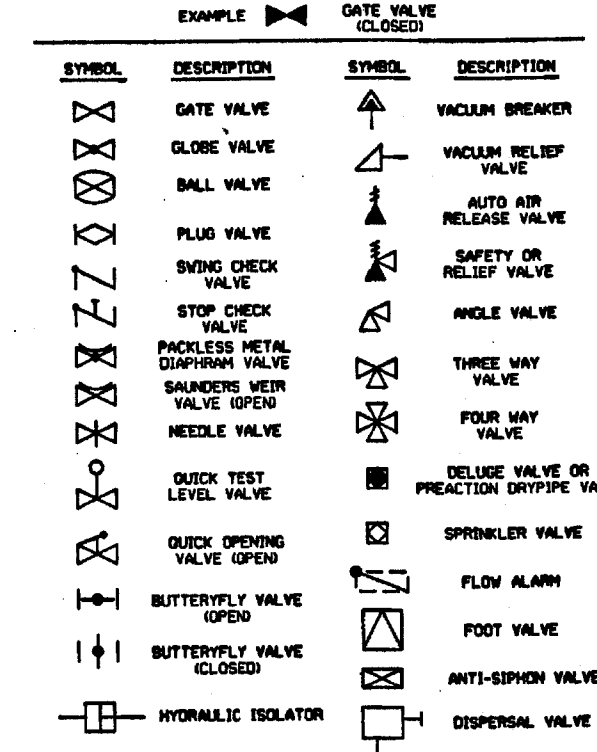


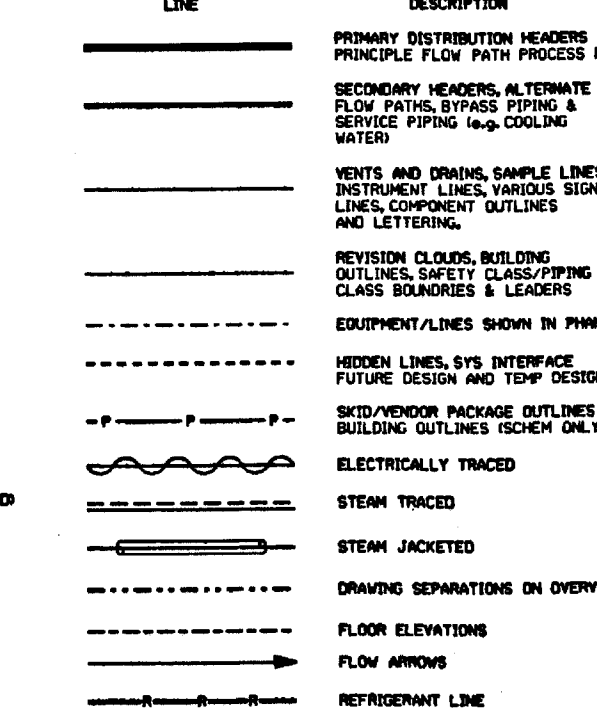
MISCELLANEOUS PIPING AND EQUIPMENT SYMBOLS



VALVE TYPES



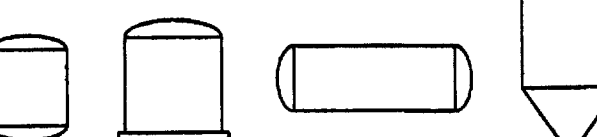
LINE CODES



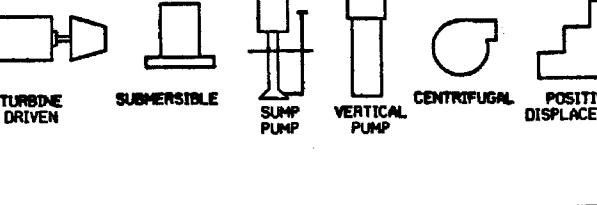
TYPICAL HEAT EXCHANGERS



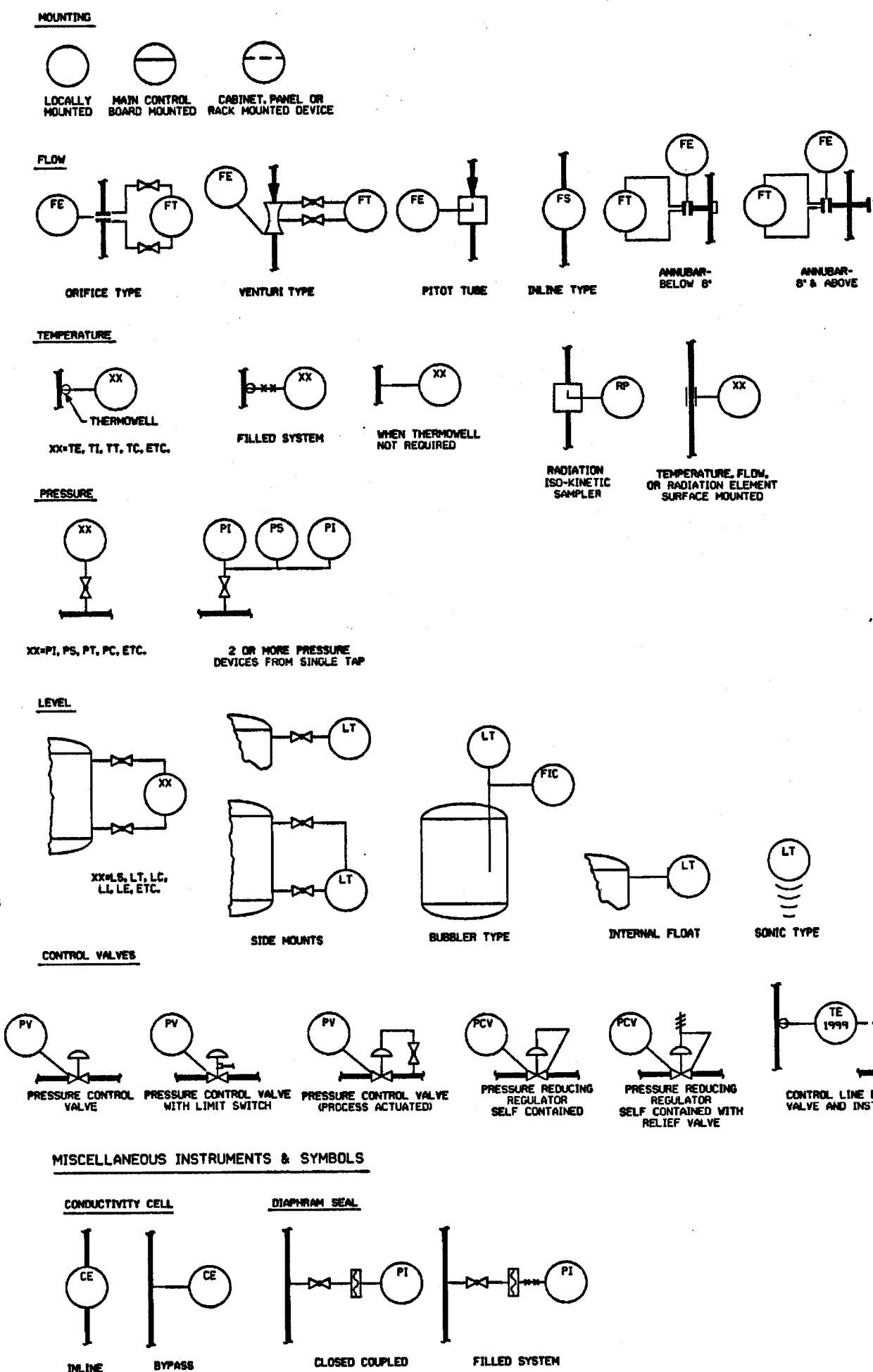
TYPICAL TANKS AND VESSELS



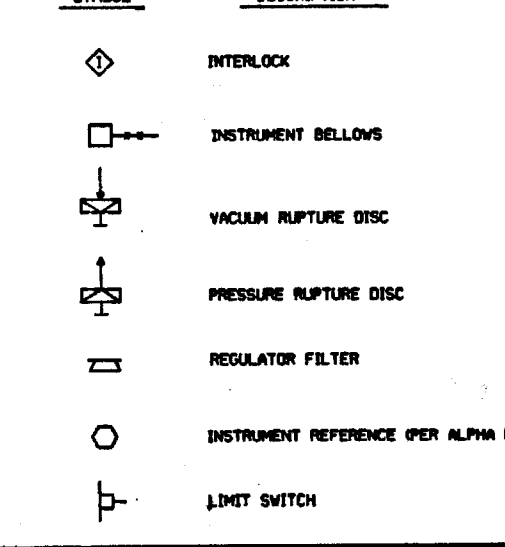
TYPICAL PUMP TYPES



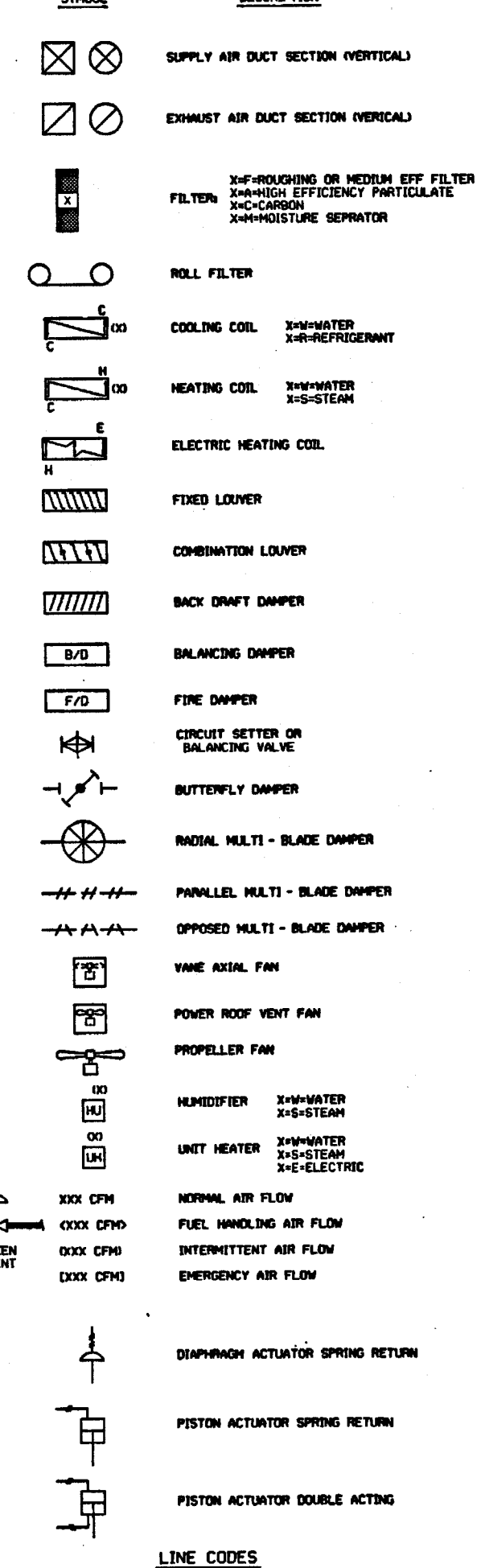
TYPICAL INSTRUMENT DETAILS



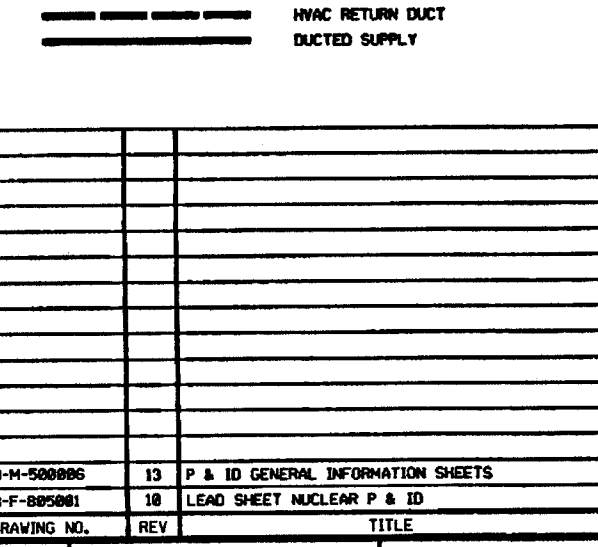
MISCELLANEOUS INSTRUMENTS & SYMBOLS



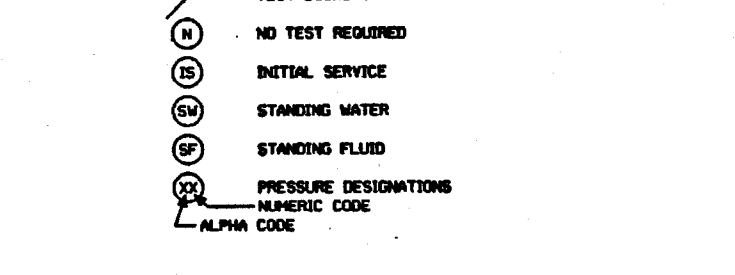
HVAC SYMBOLS



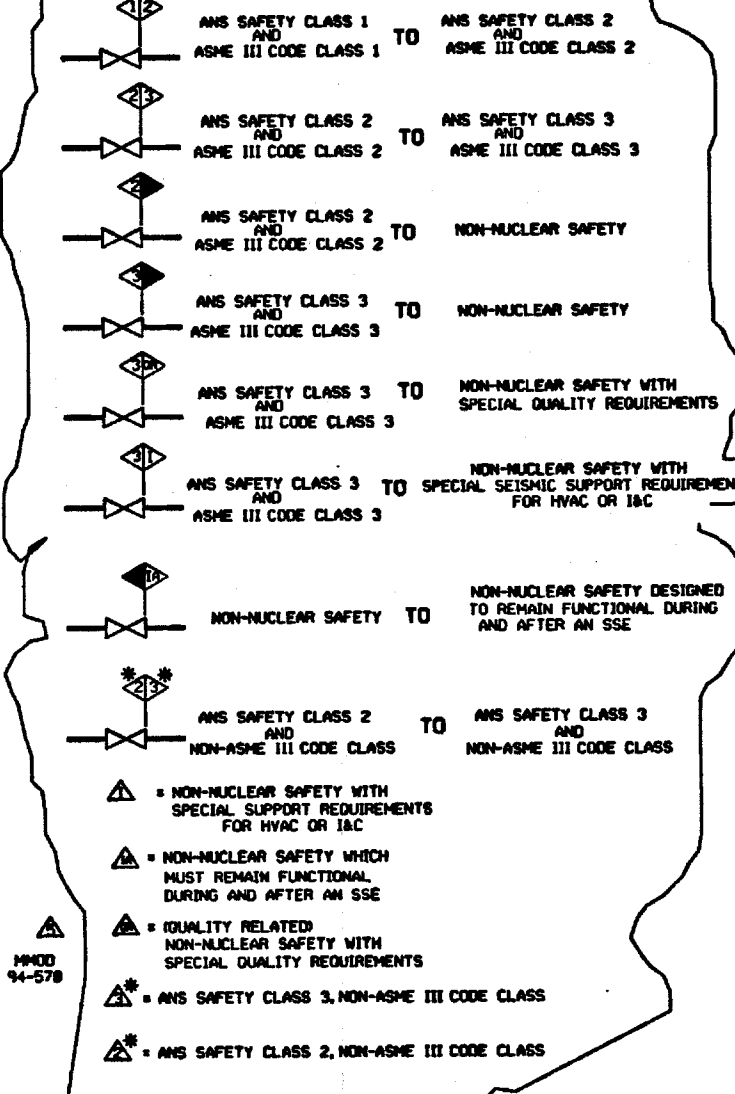
LINE CODES



MITD (MASTER INTEGRITY TEST DIAGRAMS)



PIPING SAFETY CLASS FLAGS



REV	DATE	DSGN	DRWN	CHKD	CODE	SEC	DESCRIPTION
5	6/14/85	BCL					INCORP. MPOD 14-578 CA-8
4	7/17/84	BCL	MPW	DWS	DMO		INCORP. MPOD 13-517 CA8
3	8/14/83	MRB					INCORP. MPOD 12-256 CA8 & DER 86-41 CA8
2	2/26/81	RHC		JM	MRB	BCL	INCORPORATED MPOD 11-511 CA81
1	2/24/81	MRB	FCB	JM	APL	BCL	ISSUED FOR OPERATIONS
0	8/8/80	MRJ	SKN	WRD	BCL	RRC	INITIAL ISSUE

North Atlantic Energy Service Corporation

LEAD SHEET NUCLEAR P & I DIAGRAMS SHEET 2 OF 2

PID-LEGEND2

REF. DRAWING NO.	REV	TITLE
9763-H-500086	13	P & I GENERAL INFORMATION SHEETS
9763-F-885081	18	LEAD SHEET NUCLEAR P & I

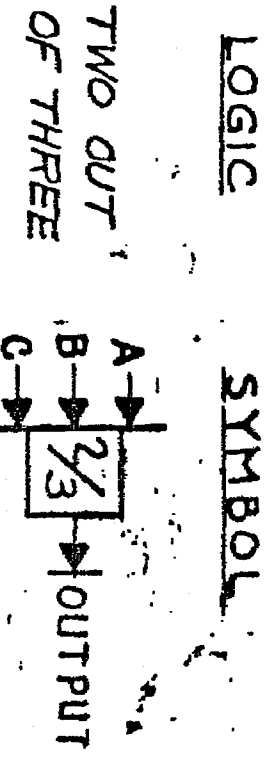
ISSUED-FOR-CONSTRUCTION

SYMBOLS LOGIC DIAGRAM

New Hampshire
Yankee
Seabrook
Station

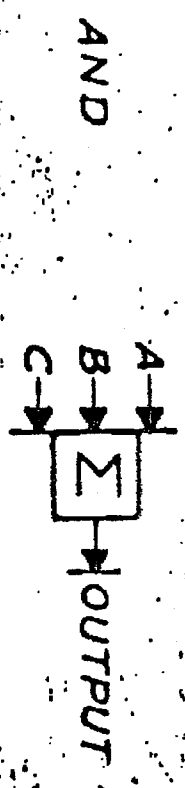
1-NHY-503100

REV
DATE

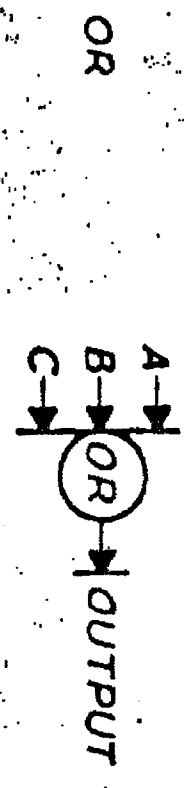


DESCRIPTION

ANY TWO OUT OF THREE INPUTS TO PRODUCE AN OUTPUT; i.e. A & B, A & C, B & C (ANY AMOUNT OF INPUTS MAY BE USED - E.G. 1 OUT OF 4 = 1/4)



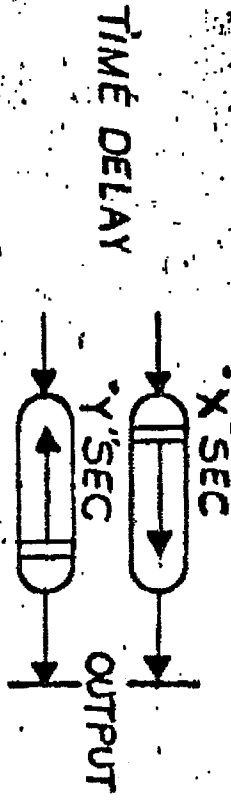
INPUTS A, B & C MUST ALL BE PRESENT TO PRODUCE AN OUTPUT.



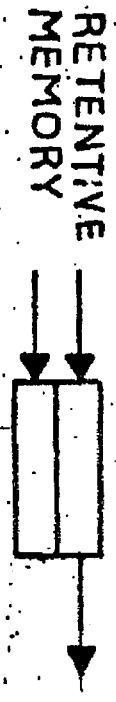
INPUTS A, OR B, OR C, OR ANY COMBINATION OF A, B & C TO PRODUCE AN OUTPUT.



WHEN INPUT 'A' IS PRESENT THERE IS NO OUTPUT SIGNAL. WITH NO INPUT SIGNAL AN OUTPUT IS PRESENT.



OUTPUT SIGNAL IS PRESENT 'X' SEC AFTER INPUT IS APPLIED; AFTER INPUT SIGNAL REMAINS 'Y' SEC AFTER INPUT IS REMOVED.



RETAINS THE COND. OF OUTPUT CORRESPONDING TO LAST ENERGY INPUT (ALSO UPON INTERRUPTION OF POWER)

CS-NAC SBM SWITCH APPLICATIONS: NAC EQUALS 'NORMAL AFTER CLOSE' NAC EQUALS 'NORMAL AFTER START' NAC EQUALS 'NORMAL AFTER STOP' NAC EQUALS 'NORMAL AFTER TRIP'

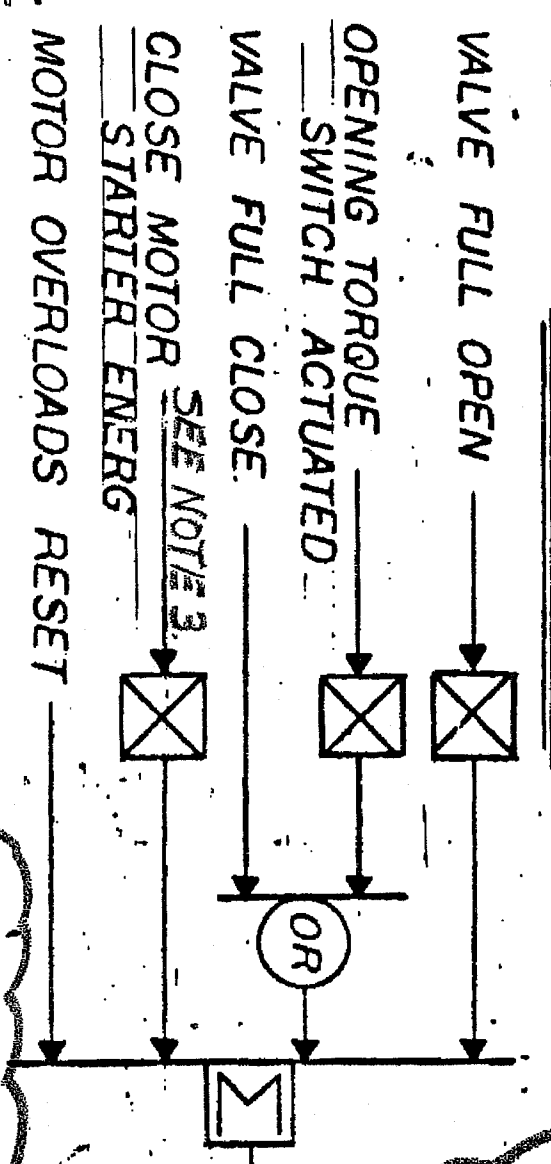
CS-NA STOP NAC EQUALS 'NORMAL AFTER TRIP'

CS-NA TRIP NAC EQUALS 'NORMAL AFTER TRIP'

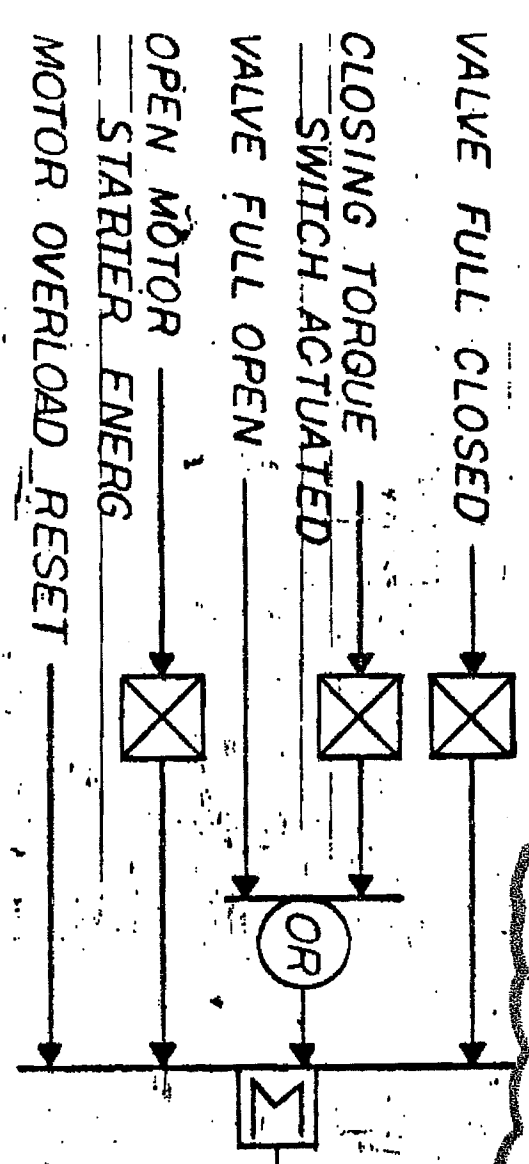
GREEN FLAG IS EXPOSED ON THE SWITCH ESCUTCHEON

MOV SCHEMES

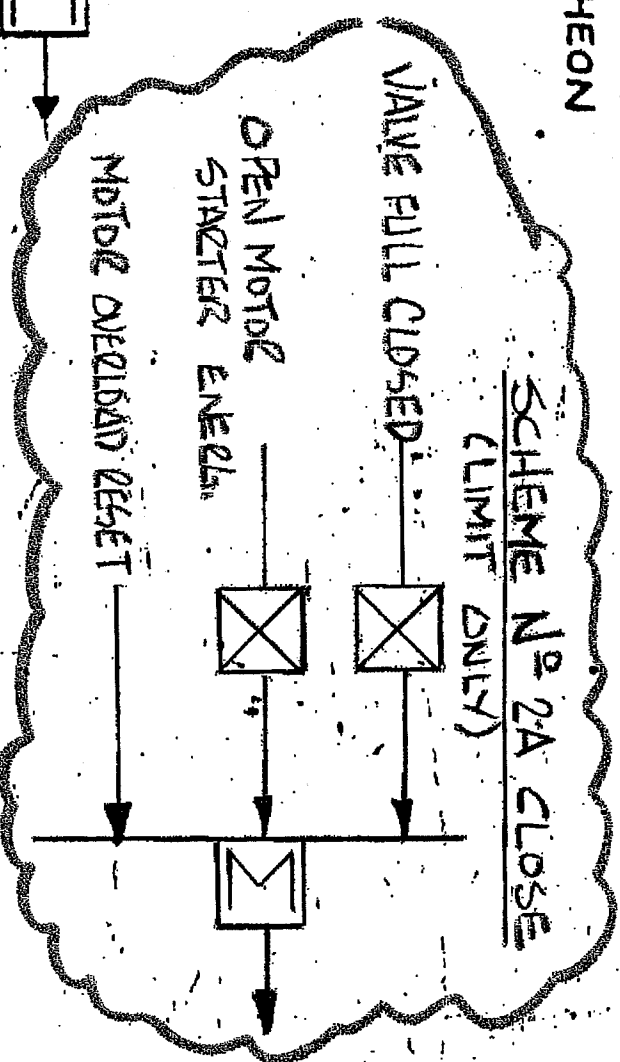
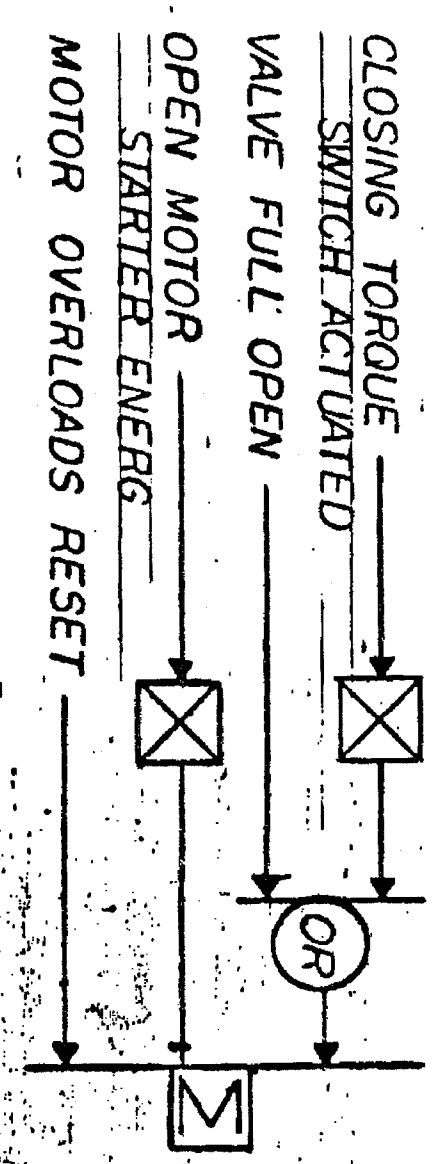
SCHEME No 1 - OPEN



SCHEME No 2 - CLOSE (LIMIT WITH TORQUE BACK-UP)



SCHEME No 3 (T SEATED) - CLOSE



NOTES

- LOGIC SHOWN DOWNSTREAM (TO THE RIGHT) OF COMPUTER INPUTS (◇) IS BY SOFTWARE INTERNAL TO THE COMPUTER
- GATE AND GLOBE VALVES, TYPICALLY, ARE TORQUE (T) SEATED
- FULL CLOSED AS DEFINED BY ROTOR 2 OF LIMITORQUE SWITCH IS ADJUSTED IN ACCORDANCE WITH APPLICABLE STATION PROCEDURES TO PROVIDE A SUFFICIENT BY-PASS OF THE OPENING TORQUE SWITCH TO ALLOW THE VALVE TO OPEN FROM THE MAIN SEAT WHEN DESIGNATED IN STATION SCHEMATICS.

REV	DATE	DRWN	CHKD	CE	LDE	DESCRIPTION
5	3/25/82	JWB	WDS	MR	DFB	REV'D PER. DER 92.005%
4	9/21/80	HP	AMP	APL	JFB	INCORP. DCR 87-0071, CA-02
3	10/20/80	JH	BCE	RRL	NA	9763-M-503100 SUPERCEDES UE&C DWG.;
2	4-21-78					ISSUED FOR CONSTR. (NO CHANGE REQ'D.)
1	8-1977					ADDED LOGIC 2/3, RFT. MEM. & NOTES 1, 2, RFT.
	7-30-76					FIRST ISSUE

SECURITY-RELATED INFORMATION – WITHHELD UNDER 5 U.S.C. SECTION 552(b)(4) AND 5 U.S.C. SECTION 552(b)(7)(F)

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