

PID-

SYSTEM	SYSTEM PREFIX	ALLOTTED LINE NO'S	P & ID DWG. NUMBERS	
			OVERVIEW	DETAILS
REACTOR COOLANT	RC	1-150	20840	20841 THRU 20846 AND 20848
RESIDUAL HEAT REMOVAL	RH	151-200	20650	20652 AND 20663
RELEASE RECOVERY SYSTEM	RR	6763-6774	N/A	20861
RADIATION MONITORING SYS.	RM	5846-5849	N/A	20358
REACTOR MAKE-UP WATER	RW	1081-1200	N/A	20509 AND 20510
RESIN SPLITTING	RS	2501-2600	N/A	20252
ROOF DRAINS	DR	9539-9525	20632	20633 THRU 20635
SERVICE AIR	SA	2301-2450 4738-4885 6710-6744 6582-6471	20649	20650 THRU 20653
SANITARY PIPING	SAN	8925-8999	N/A	20540, 20541
STEAM GENERATOR BLOWDOWN	SB	1229-1400 2351-2400 3380-3393	20625	20626 THRU 20631
SECONDARY COMPONENT COOLING	SCC	4540-4729 6521-6528	20872	20874 THRU 20878
SCREEN WASH	SCW	5278-5309	N/A	20765
PLANT STORM DRAINAGE	SD	6075-6079	20401	20402 THRU 20405
SPENT FUEL POOL COOLING	SF	1701-1800	20400	20402 THRU 20404
NON-ESSENTIAL SWITCHGEAR AIR HANDLING	SGA	N/A	N/A	20268
SAFETY INJECTION	SI	201-300	20445	20446 THRU 20450
SANITARY LAGOON AREA	SLA	5520-5539	N/A	20740
SEAL OIL GENERATOR	SO	N/A	N/A	20096
SAMPLING SYSTEM	SS	1401-1500	20516	20518 THRU 20522
TURBINE STEAM SEAL	SSS	5450-5445	20756	20758 AND 20759
SERVICE WATER	SW	1801-1850	20792	20794 AND 20795
SW PUMPHOUSE AIR HANDLING	SWA	N/A	N/A	20372
(SWITCHYARD) SF6 GAS	SY	N/A	N/A	20021 AND 20022
TURBINE BLOC. AIR HANDLING	TAH	6518-6527	N/A	20170 THRU 20172
VENT GAS	VG	1501-1563	20779	20780 AND 20782
VALVE STEM LEAK OFF	VSL	N/A	20874	20775 THRU 20777
WASTE GAS SYSTEM	WG	551-550	20768	20770 THRU 20773
WASTE PROCESSING LIQUID	WL	901-1050 2051-2300	20828	20829 THRU 20831
WASTE PROCESSING LIQUID DRAINS	WLD	2051-2300	20216	20218 THRU 20229
WASTE PROCESSING SOLID	WS	2601-2700 3000-3150	20733 20734	20735 THRU 20743
WATER TREATMENT	WT	5550-5610 7500-7502 8910-8924	20036	20038 THRU 20041

1-CO-FG-103-A

1

CO

FG

103

A

a). UNIT NUMBER → 1-CO

b). SYSTEM PREFIX →

c). FUNCTIONAL IDENTIFICATION →

d). INSTRUMENT OR LOOP NUMBER →

e). SUFFIX →

REF. DRAWING NO.	REV	TITLE
5	4	

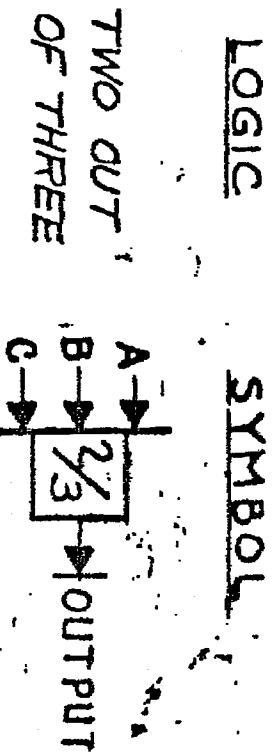
10/18/99	BCS	---	DWS	MPW	DJM	INCORPORATED MHOD 91-515 CABO, MHOD 92-532 CABO, DRR 91022 REV. & DCR 950634 DCM#00
6/12/96	BCL	---	DWS	MPW	DJM	INCORPORATED MHOD 91-579 CABO
6/12/96	BCL	---	JN	MPW	DJM	UNRECORDED MHOD 91-511 CABO
1/24/91	MRB	RMC	JN	APL	BCL	ISSUED FOR OPERATIONS
6/8/86	HRJ	SKN	WRD	BCL	RRC	INITIAL ISSUE
DATE	DSGN	DRN	CHKD	CDE	SES	DESCRIPTION

SHEET 1 OF 2

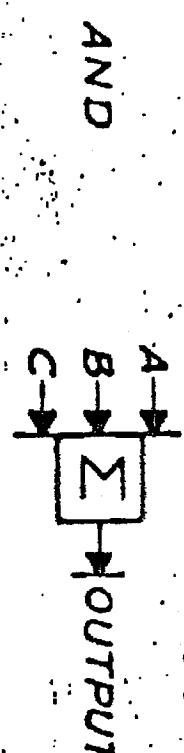
PID- 1 LEGEND1



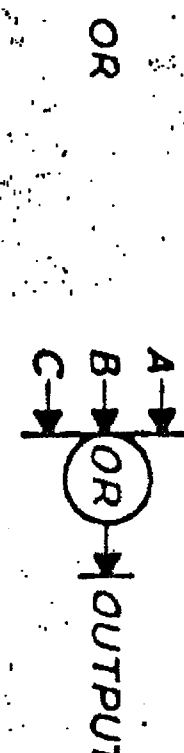




ANY TWO OUT OF THREE INPUTS TO PRODUCE AN OUTPUT; I.E. A & B, A & C, B & C (ANY AMOUNT OF INPUTS MAY BE USED - E.G. 1 OUT OF 4 = 1/4)



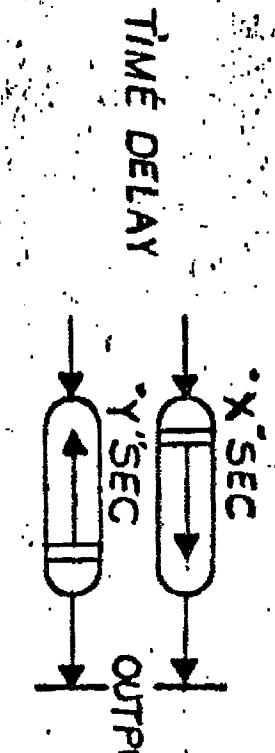
INPUTS A, B & C MUST ALL BE PRESENT TO PRODUCE AN OUTPUT.



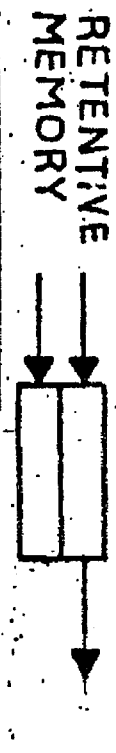
INPUTS A, OR B, OR C, OR ANY COMBINATION OF A, B & C TO PRODUCE AN OUTPUT.



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'

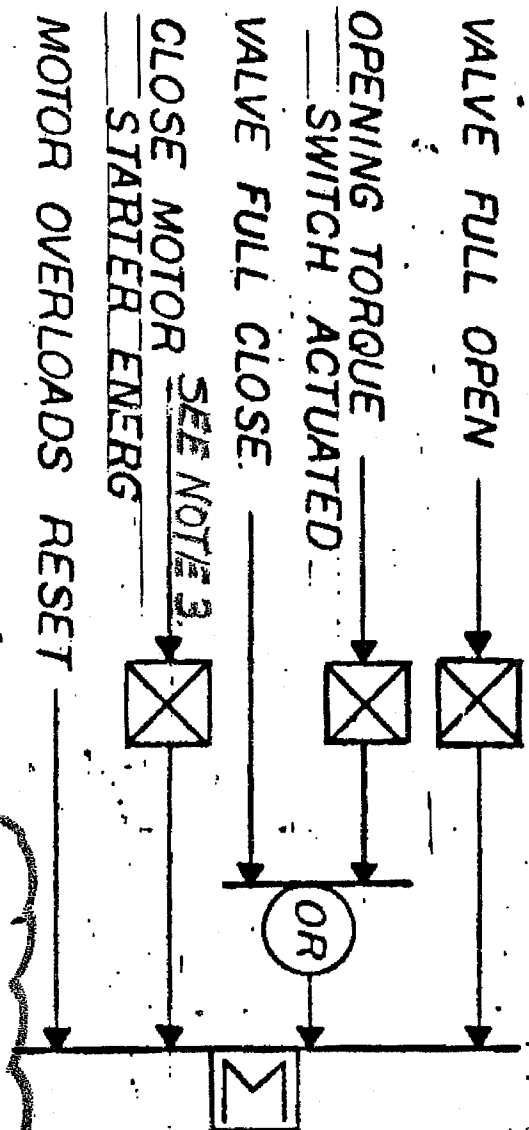
CS-NAS

CS-NA STOP  
CS-NA TRIP

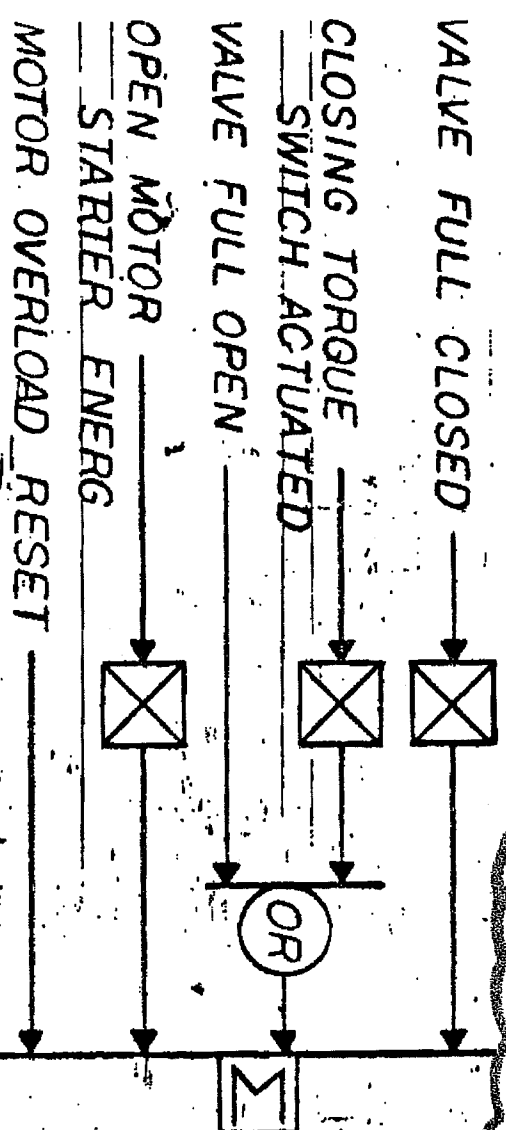
RED FLAG IS EXPOSED ON THE SWITCH ESCUTCHEON.  
: NA STOP EQUALS 'NORMAL AFTER STOP'  
: NA TRIP EQUALS 'NORMAL AFTER TRIP'  
GREEN FLAG IS EXPOSED ON THE SWITCH ESCUTCHEON

### MOV SCHEMES

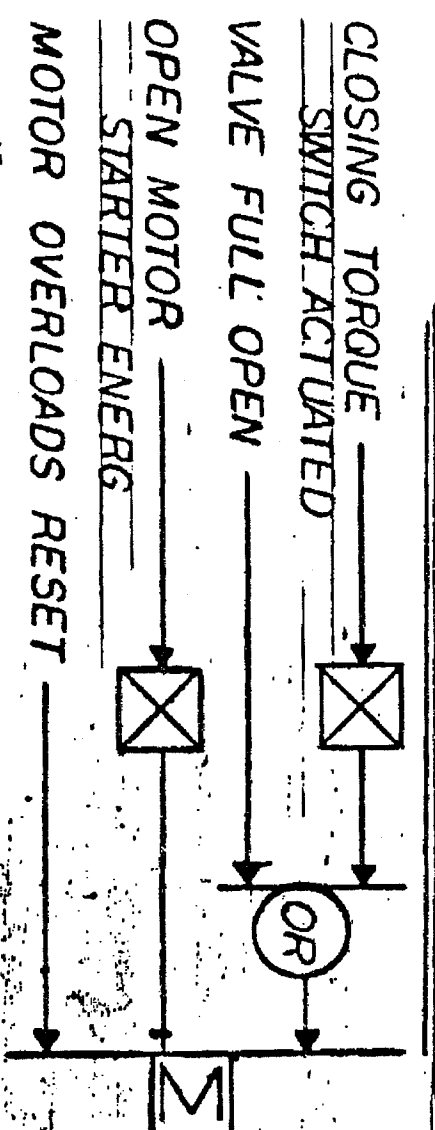
#### SCHEME No 1 - OPEN



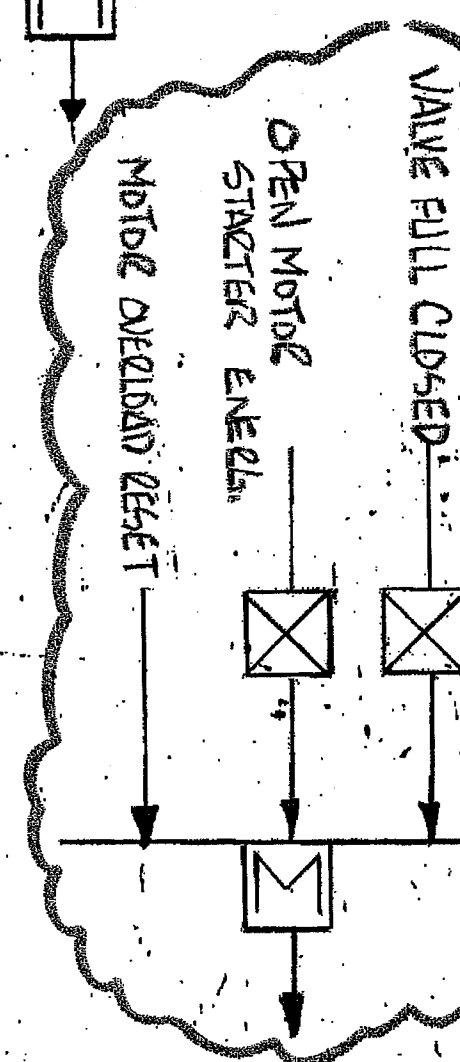
#### SCHEME No 2 - CLOSE (LIMIT WITH TORQUE BACK-UP)



#### SCHEME No 3 (T SEATED) - CLOSE



#### SCHEME No 2A CLOSE (LIMIT ONLY)



### NOTES

- 1) LOGIC SHOWN DOWNSTREAM (TO THE RIGHT) OF COMPUTER INPUTS (◇) IS BY SOFTWARE & INTERNAL TO THE COMPUTER
- 2) GATE AND GLOBE VALVES, TYPICALLY, ARE TORQUE (T) SEATED
- 3) 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.

ISSUED-FOR-CONSTRUCTION

### SYMBOLS LOGIC DIAGRAM

New Hampshire  
Yankee

Seabrook  
Station

1-NHY-503100

REV

REV	DATE	DRWN	CHKD	CE	LDE	DESCRIPTION
5	3/25/82	JWB	WDS	WDR	PRB	REV'D PER DER 92.005%
4	9/21/88	HP	AMP	APL	JFB	INCRP DCR 87-0071, CA-02
3	10/20/86	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
						DESCRIPTION
						FE
						OWN. BY
						CKD. BY
						RES. ENG.
						SDR
						DAE
						PEM

1-NHY-503100

REV

SECURITY-RELATED INFORMATION – WITHHELD UNDER 5 USC SECTION 552(b)(4) AND 5 USC SECTION 552(b)(7)(F)

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