

08-000-2E-0

TITLE	EQUIPMENT CODE	SYMBOL	TITLE	EQUIPMENT CODE	SYMBOL	TITLE	EQUIPMENT CODE	SYMBOL	TITLE	EQUIPMENT CODE	SYMBOL
(DIFFUSER)	DIFF		(MANHOLE)			LINKED VALVE			EQUIPMENT DRAIN (OPEN END)	ED	
(SCREEN OPENING)	SO		(THERMAL SLEEVE)	FTG		MASTER VALVE (WITH PILOT CONTROL CABINET)			EQUIPMENT DRAIN (CLOSED END)	ED	
(COMBINATION LIGHT FIXTURE & AIR DIFFUSER)	DIFF		(DUCT, TEST HOLE)			(ROTARY GATE)	GATE		FLOOR DRAIN	DNF	
HEATING AND VENTILATING UNIT - (DRAW THROUGH)	HVU		(FLEXIBLE BALL JOINT)			(SELECTOR VALVE WITH PILOT CONTROL CABINET)			(DISSIPILAR WELD AT CLASS CHANGE)		
HEATING AND VENTILATING UNIT - (BLOW THROUGH)	HVU		(SMALL HYDRANT OR SIAMESE)			PUSH BUTTON			(DISSIPILAR WELD AT VESSEL NOZZLE)		
AIR CONDITIONING UNIT - (DRAW THROUGH)	ACU		HYDRANT	PHY		SAFETY SHOWER AND EYEWASH	SSH		(INLINE) MIXER		
AIR CONDITIONING UNIT - (BLOW THROUGH)	ACU		(HOSE HOUSE WITH HYDRANT)	PHY		LOCKOUT			AIR SEPARATOR	ASP	
(SOUND TRAP)	TRP		HOSE RACK	HR		SHOWER	SSH		FLAME ARRESTOR	AF	
(DOUBLE DUCT MIXING BOX)	MXB		FIRE HOSE REEL	FHR		SAFETY EYE WASH	SEW		MAGNETIC SEPARATOR	SP	
(SINGLE DUCT MIXING BOX)	MXB		DELUGE VALVE, PREACTION VALVE, OR CONTROLLED FLOW VALVE			LAVATORY	LAV		MINIMUM POSSIBLE DISTANCE ON INSTALLATION		
(HIGH EFFICIENCY PARTICULATE AIR FILTER)	FLT		ALARM CHECK VALVE			DRINKING WATER COOLER	DWC		CLASS CHANGE		
CHILLER, MECHANICAL REFRIGERATION UNIT* (LIQUID)	CHL		FLOW DETECTOR (WIRE TYPE)			AUTOMATIC CLOTHES WASHER			(NO SAFETY CLASS IDENTIFICATION WHERE A LINE NO. IS PRESENT)		
CHILLER, MECHANICAL REFRIGERATION UNIT*	CHL		(SPRAY HEAD OR SPRINKLER)			AUTOMATIC CLOTHES DRYER					
(FLANGE)			(POST INDICATOR BALL VALVE)			URINAL	URN				
(ECCENTRIC REDUCER)			(POST INDICATOR VALVE)			WATER CLOSET (FLOOR)	WC				
(CAP-WELDED)			(POST INDICATOR BUTTERFLY VALVE)			WATER CLOSET (WALL HUNG)	WC				
(CONCENTRIC REDUCER)			(TOUR. BOX)			SELF-CONTAINED PORTABLE TOILET					
(UNION)			ODORIZER			SERVICE OR KITCHEN SINK	SSK				
(BLIND FLANGE)			(SMOKE DETECTOR)	SD		WASH FOUNTAIN (CIRC.)	WF				
			(TEMPERATURE DETECTOR)	TS		CLEANOUT	CO				
			(HORN ALARM)			FLOOR CLEANOUT	FCO				
			(CO2 RELEASE)								
			(DISCHARGE NOZZLE)								

INSTRUMENT COMPUTING FUNCTION CODES, DEFINED AS FOLLOWS.

	BIAS		DIFFERENCE
	NEGATIVE BIAS (+ FOR POSITIVE)		ONE TO ONE ISOLATION AMPLIFIER
	MULTIPLY		AVERAGE
	DIVIDE		FUNCTION GENERATOR (CHARACTERIZER)
	HIGH SELECT		PROPORTIONAL PLUS INTEGRAL (RESET)
	LOW SELECT		PROPORTIONAL PLUS INTEGRAL PLUS DERIVATIVE (RATE)
	HIGH LIMIT		SQUARE ROOT EXTRACTOR
	LOW LIMIT		SUMMER (TOTALIZER)
	PROPORTIONAL		

3-WAY SOLENOID VALVE SHOWN IN DE-ENERGIZED POSITION (USING FOR IBC)

PORT	DE-ENERGIZED	ENERGIZED
1	CLOSED	OPEN
2	OPEN	OPEN
3	OPEN	CLOSED

IDENTIFICATION OF NUCLEAR SAFETY RELATED FLOW PATHS, EQUIPMENT AND INSTRUMENTATION

THE METHOD OF ACCOMPLISHING THE IDENTIFICATION IS SHOWN IN THE FOLLOWING EXAMPLES:

A. MECHANICAL EQUIPMENT AND INSTRUMENTS

DASH INDICATES EQUIPMENT THAT IS NOT NUCLEAR SAFETY RELATED

ICVS-PIA

ASTERISK INDICATES NUCLEAR SAFETY RELATED EQUIPMENT

IRNSRHOY12A(A0)

OVERCODING IN PARENTHESIS

ELECTRICAL REDUNDANCY CODE (COLOR)

MECHANICAL FLOW PATH "A"

IRNSRHY14B(-)

NO ELECTRICAL CONNECTION

FLOW PATH "B"

B. ELECTRICAL EQUIPMENT

IENSACB10(-P)

PURPLE BUS (SUPPLY BREAKER)

NO MECHANICAL FLOW PATH

ALL ELECTRICAL SYSTEM - NO FLOW DIAGRAM - ONE LINE ONLY

C. LINE DESIGNATIONS

3-R55-012-5-21A-1

NO ELECTRICAL CONNECTIONS

FLOW PATH "A"

INSTRUMENTATION

TEMPERATURE INDICATING SWITCH

FIRST LETTER, A - ANALYZER, C - CONDUCTIVITY, F - FLOW, L - LEVEL, H - HUMIDITY, W - WEIGHT, P - PRESSURE, G - COUNTING, M - MAGNETIC, S - SWITCH (EXCEPT SD - SMOKE DETECTOR), T - TEMPERATURE, V - POSITION.

SECOND, THIRD OR FOURTH LETTER, C - CONTROLLER, D - DIFFERENTIAL (EXCEPT SD - SMOKE DETECTOR), E - CLOSED, I - INDICATOR, S - SWITCH, T - TRANSMITTER, H - HIGH, L - LOW, R - RECORDER.

CAPILLARY (SOURCE)

FOR INPUT/OUTPUT CONVERSIONS OF THE FOLLOWING.

E - RANGE A - ANALOG
H - HYDRAULIC D - DIGITAL
I - CURRENT P - PNEUMATIC

LOCATION OF INSTRUMENTS.

AT CONTROL ROOM

AT LOCAL PANEL

LOCALLY MOUNTED

RHS - CONTROL SWITCH, PB - PUSHBUTTON.

CS - CONTROL SWITCH, PB - PUSHBUTTON - MOUNTED LOCALLY WITH CONTROLLED DEVICE.

R-RED, G-GREEN, W-WHITE INDICATING LIGHTS.

LOCATION OF INDICATING LIGHTS NOT ASSOCIATED WITH A PARTICULAR SWITCH.

CR - AT CONTROL ROOM, SR - AT RADWASTE CONTROL ROOM
L - AT LOCAL PANEL.

WINDOW NO.

PROCESS PARAMETER ACTUATED ALARM.

FAL - FLOW LOW, TRL - TROUBLE ALARM, PHA - PRESSURE HIGH, ETC., ALA - OTHER ALARMS.

POINT NO.

COMPUTER POINT

INTERLOCK

ELECTRIC OR ELECTRONIC SIGNAL

PNEUMATIC SIGNAL

A/S - AIR SUPPLY

NOTES.

1. WORDS, CODES OR SYMBOLS SHOWN INSIDE PARENTHESIS ARE FOR INFORMATION ONLY. DO NOT INCLUDE ON PIPING & INSTRUMENTATION DIAGRAMS.

CABLE MARKING FOR SAFETY RELATED SYSTEMS

DIVISION	SUBCHANNEL	COLOR
I	1	GREEN
I	2	ORANGE
II	1	YELLOW
II	2	BLUE
III	1	PURPLE
III	2	BROWN

MECHANICAL FLOW PATHS FOR SAFETY RELATED SYSTEMS

A - INDICATES FLOW PATH A.

B,C,D, - INDICATES IDENTICALLY REDUNDANT FLOW PATHS CORRESPONDING TO A.

X - DEFINED AS A SINGLE OR COMMON FLOW PATH CONNECTING TWO OR MORE REDUNDANT FLOW PATHS.

Z - SYSTEMS OR PORTIONS OF SYSTEMS WHICH CONSIST OF A SINGLE FLOW PATH OR NO IDENTICALLY REDUNDANT FLOW PATH.

J - SYSTEMS WHICH CONSIST OF A SINGLE FLOW PATH AND ARE FUNCTIONALLY REDUNDANT TO ANOTHER SYSTEM.

S - FLOW PATHS CONNECTING REDUNDANT PATHS TO A SPARE.

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

LICENSE RENEWAL BOUNDARY DRAWING SYMBOLS, NOTES, AND ACRONYMS

SCALE NONE DRAWING NO LR-000-2E-0

THIS DRAWING WAS PRODUCED ELECTRONICALLY. DO NOT MAKE ANY CHANGES MANUALLY.

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