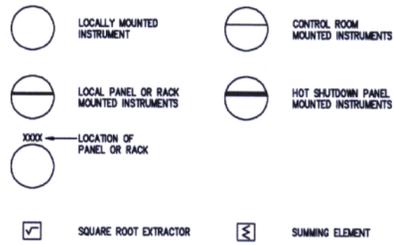
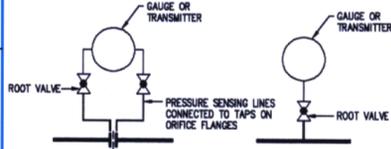


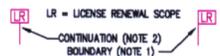
**INSTRUMENTATION**



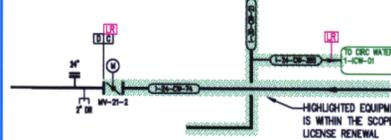
**TYPICAL INSTRUMENTATION ARRANGEMENT**



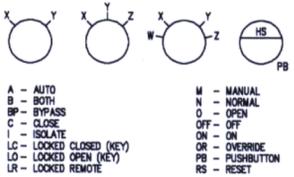
**LICENSE RENEWAL CATEGORY**



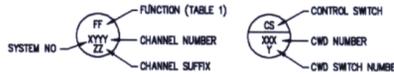
**EXAMPLE**



**SWITCH POSITIONS & ABBREVIATIONS**



**INSTRUMENT AND SWITCH IDENTIFICATION**



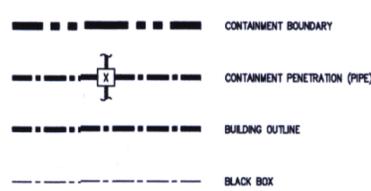
**MEASUREMENT CHANNELS ARE SUFFIXED AS FOLLOWS:**

- 1 - SAFETY CHANNEL NUMBERS ARE SUFFIXED BY A, B, C, AND D ETC
- 2 - SIMILAR MEASUREMENT CHANNELS ARE SUFFIXED BY X, Y, Z, ETC
- 3 - "H" AND "C" WHEN USED IN INSTRUMENTATION CHANNEL SUFFIXES DENOTE HOT AND COLD

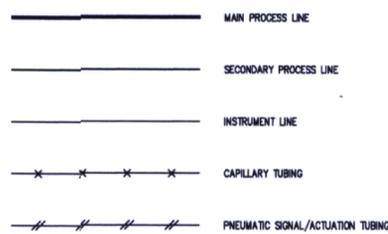
**TABLE 1 INSTRUMENT IDENTIFICATION LETTERS DENOTE CHANNEL FUNCTION, NOT SPECIFIC EQUIPMENT**

FIRST LETTER	SUCCESSING LETTERS
A	ALARM
B	BYPASS
C	CONTROL
D	DIFFERENTIAL
E	ELEMENT
F	FLOW RATE
G	GLASS
H	HAND (MANUALLY INITIATED)
I	INDICATOR
J	POWER
K	TIME OR TIME SCHEDULE
L	LEVEL
M	MOISTURE OR HUMIDITY
N	NEUTRON
P	PRESSURE
Q	QUANTITY NUMBER
R	RECORDING
S	SPEED OR SELECTOR
T	TEMPERATURE
V	VALVE
W	WEIGHT
X	TEST POINT OR MISC POWER SUPPLY
Y	ANALYSIS
Z	POSITION

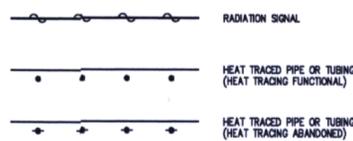
**BUILDING AND EQUIPMENT BOUNDARY LINES**



**PIPE AND TUBING LINE TYPES**



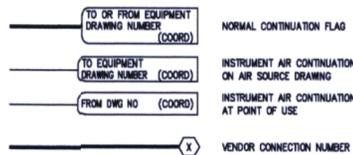
**ELECTRICAL LINE TYPES**



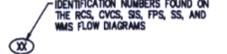
**MISCELLANEOUS LINE TYPES**



**REFERENCE TO CONNECTING DRAWINGS**



**PROCESS DATA POINTS**



PROCESS FLOW DATA AT NUMBERED LOCATIONS ARE DEFINED IN THE SAFETY ANALYSIS REPORT



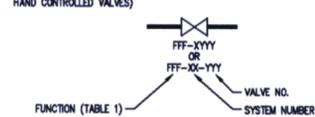
**SAFETY CLASS CATEGORY**

A, B, C, D = SAFETY CLASS (QUALITY GROUP)  
(REF: TABLE 3.2-1 OF FSAR)

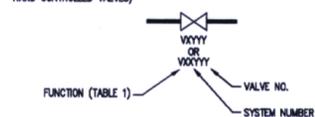
**ABBREVIATIONS**

- SIGNAL**
- CIS - CONTAINMENT ISOLATION
  - CSAS - CONTAINMENT SPRAY ACTUATION
  - MSS - MAIN STEAM ISOLATION
  - RAS - RECIRCULATION ACTUATION
  - SAS - SAFETY INJECTION ACTUATION
- EQUIPMENT**
- BAMT - BORIC ACID MAKEUP TANK (CVCS)
  - BAT - BORIC ACID BATCHING TANK (CVCS)
  - CAT - CHEMICAL ADDITION TANK (CVCS)
  - EDT - EQUIPMENT DRAIN TANK (WMS)
  - FT - FLASH TANK
  - HT - HOLD-UP TANK (WMS)
  - QT - QUENCH TANK (RCS)
  - RAT - RESIN ADDITION TANK (WMS)
  - ROT - REACTOR DRAIN TANK (WMS)
  - RWT - REFUELING WATER TANK
  - SIT - SAFETY INJECTION TANK (SIS)
  - SRT - SPENT RESIN TANK (WMS)
  - VCT - VOLUME CONTROL TANK (CVCS)
- MISCELLANEOUS**
- AMP - AUTOMATIC CEA WITHDRAWAL PROHIBIT
  - BHB - BACKUP HEATER BREAKERS
  - BHC - BACKUP HEATER CONTROL
  - CEDS - CONTROL ELEMENT DRIVE SYSTEM
  - DR - DRAIN
  - GA - GAS ANALYZER
  - HPRT - HIGH PRESSURIZER PRESSURE RELIEF VALVE TRIP
  - H2 - HYDROGEN
  - LPRT - LOW PRESSURIZER PRESSURE RELIEF VALVE TRIP
  - LS - LOCAL SAMPLE
  - LSS - LOCAL SAMPLE SINK
  - N2 - NITROGEN
  - N/S - NITROGEN SUPPLY
  - PHC - PROPORTIONAL HEATER CONTROL
  - PLS - PROGRAMMED LEVEL SETPOINT (RRS)
  - RPS - REACTOR PROTECTIVE SYSTEM
  - RR - REVERSE ROTATION
  - RRS - REACTOR REGULATING SYSTEM
  - SCR - PROPORTIONAL HEATER SCR CONTROLS
  - SG - STEAM GENERATOR
  - SIB - SAFETY INJECTION BLOCK
  - SIL - SAFETY INJECTION LOGIC
  - V - VENT TO ATMOSPHERE

**AIR & MOTOR OPERATED VALVES (EXCEPT NON-PROPORTIONAL, REMOTELY HAND CONTROLLED VALVES)**



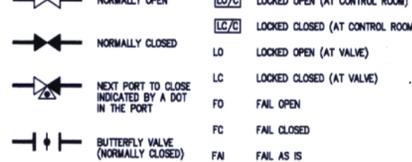
**MANUALLY OPERATED VALVES (INCLUDES NON-PROPORTIONAL, REMOTELY HAND CONTROLLED VALVES)**



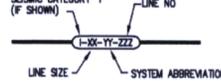
**VALVE DESCRIPTION**



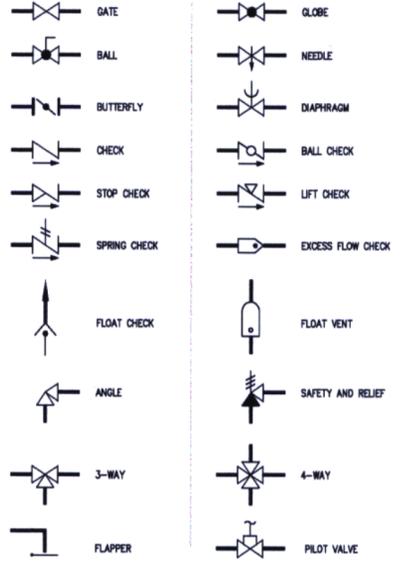
**VALVE MODE DESCRIPTION**



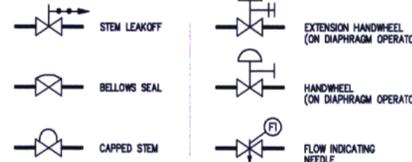
**PIPING LINE DESIGNATION**



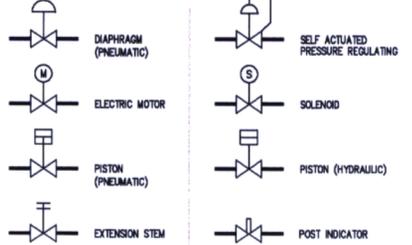
**VALVE BODY TYPES**



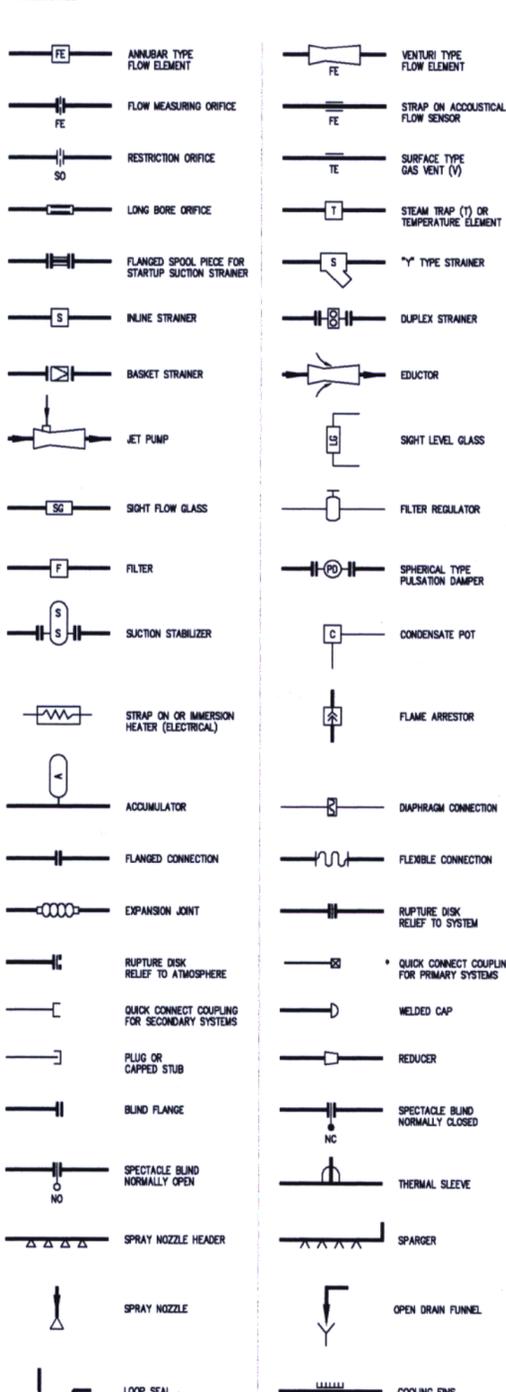
**VALVE ACCESSORIES**



**VALVE OPERATORS**

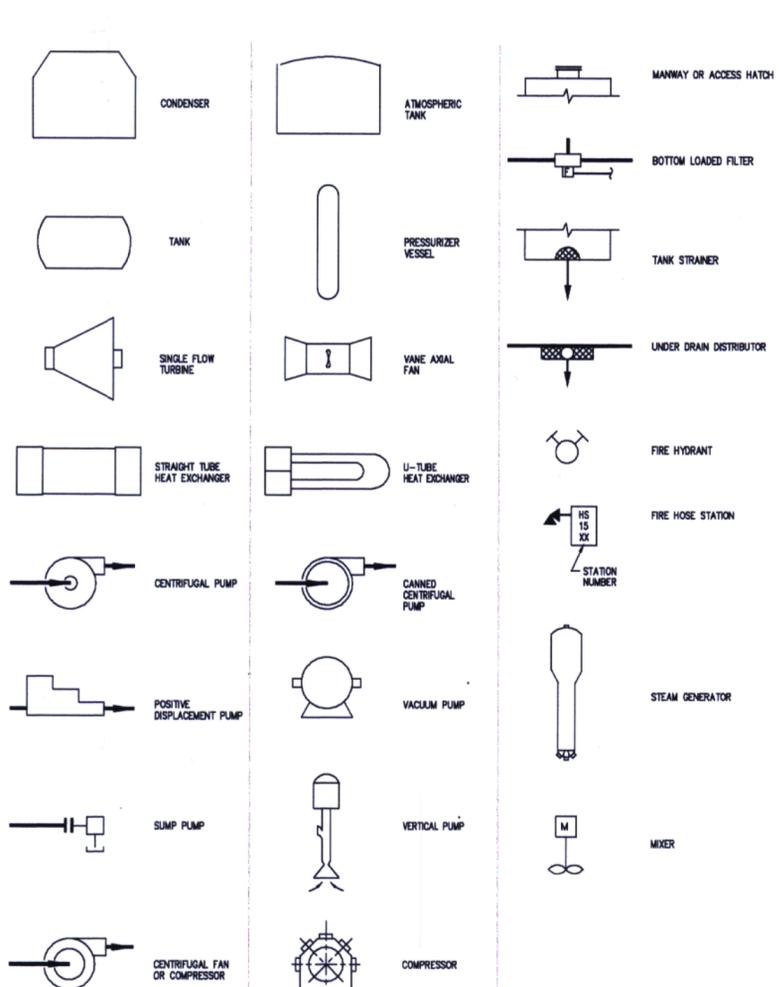


**PIPE AND EQUIPMENT ACCESSORIES**



**NOTE:**  
\* QUICK DISCONNECTS ARE OPTIONAL ITEMS, WHICH MAY BE INSTALLED FOR CONVENIENCE, BUT ARE NOT REQUIRED FOR DESIGN FUNCTIONS.

**EQUIPMENT**



- GENERAL NOTES:**
1. DENOTES PRESSURE BOUNDARIES (PROCESS PIPING / TUBING / COMPONENTS) FOR SYSTEMS WITHIN THE SCOPE OF LICENSE RENEWAL.
  2. DENOTES "IN PROCESS" PIPING / TUBING / COMPONENTS WITHIN THE SCOPE OF LICENSE RENEWAL.
  3. QUALITY GROUP A, B OR C BOUNDARIES WITH UNTAGGED CLASS D COMPONENTS SHALL BE CONSIDERED AS A LICENSE RENEWAL BOUNDARY ALTHOUGH NOT IDENTIFIED WITH A LICENSE RENEWAL BOUNDARY FLAG.

D-001

FLORIDA POWER & LIGHT  
ST. LUCIE NUCLEAR UNIT 1

**GENERAL NOTES AND LEGEND**

LICENSE RENEWAL BOUNDARY DRAWING  
DRAWING NUMBER 1-NOTES-01  
REVISION 0