

Appendix A Legend for Figures





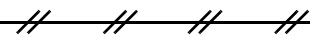
For a number of the systems presented in Section 2, figures depicting the Basic Configuration of the systems have been provided to help facilitate the Design Description. For I&C systems, the figures represent a diagram of significant aspects of the logic of the system. For other systems and buildings, these figures represent a functional diagram, representation, or illustration of design-related information. Unless otherwise specified explicitly, these figures are not necessarily indicative of the scale, location, dimensions, shape, or spatial relationships of as-built structures, systems, and components. In particular, the as-built attributes of structures, systems and components may vary from the attributes depicted on these figures, provided that those safety functions discussed in the Design Description are not adversely affected.

The figures contain information that uses the following conventions:

Mechanical Equipment

Line classification:

Figure Designation

ASME Code Class 1		1
ASME Code Class 2		2
ASME Code Class 3		3
Non-ASME Code/ Non-Nuclear Safety		NNS
Other Line Type:		

This legend can be used for pneumatic lines when needed for clarity. ASME Code class for such lines is defined on the system figure.

Classification/System Boundaries:

The following is a self-explanatory example of how ASME Code class change and system boundary are identified on the figures:

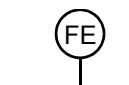
RPV|NBS 1|2

Instrumentation:

Conductivity monitor	CM
Differential pressure indicator	dP
Display and/or control interface with RSS	R
Flow element	FE
Hydrogen analyzer	HE
Level controller	LC
Level detector	L
Moisture element	ME
Pressure element	P
Radiation element	RE
Speed detector	S
Temperature element	T
Vibration detector	V

Note:

Instrumentation should be shown as:(lines connecting the instruments do not indicate ASME Code classes or wire type)



Equipment:

Annunciator (H=high, L=low)		Relief valve	
Butterfly valve		Plug or Ball valve	
Check valve		Probe	
Damper		Pump	
Fan, Blower		Solenoid	
Filter		Strainer	
Flow restrictor		Three way valve	
Gate valve		Vacuum breaker	
Globe valve		Valve type not specified	
Main Turbine Stop Valve		Water trap	

- Notes: 1. Valves shown do not denote either open or closed position.
2. Valves shown without operators may be local manual valves.
3. Components shown in phantom are not part of the system on the figure it appears.

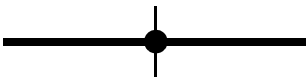
Valve Operators:

Motor	
Pneumatic	

Electrical Equipment

Cable or conduit	
Cable connection	

Connection to bus



Circuit Interrupting Device



Transformer



Battery



Note 1: Devices shown do not denote either open or closed position.

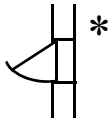
Note 2: Circuit Interrupting Devices may consist of circuit breakers, fuses or a combination of breakers and fuses.

Building

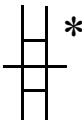
Divisional Barrier
(Note 2)



Door (Note 1 & 3)



Door (Note 3)



Door (Note 3)



Elevator



Grating Floor

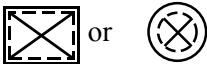

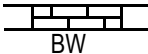

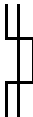
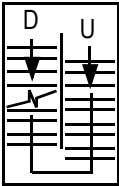



Grid line identifier
(for information only)






Grid line intersection
(for information only)



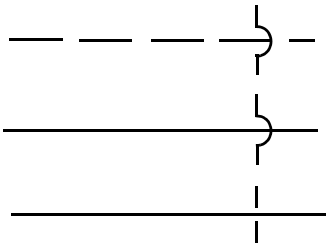
Hatch		Opening	
Removable block wall		Secondary containment barrier for R/B and MCAE for C/B (Note 2), or radiation zone boundary	
Sliding door		Stairway	
Sump pit		Typical floor designation: B3F-Basement, 3rd floor	

- NOTES:
- 1. Swing of door can be either way.
 - 2. Divisional and secondary containment barriers and MCAE are fire barriers unless specified otherwise.
 - 3. “*” Denotes watertight door.

Control and Instrumentation

Cables:	Fiber-optic	
	Metallic	
	Fiber-optic or metallic	

Cables not connected



Sensor



Switch

