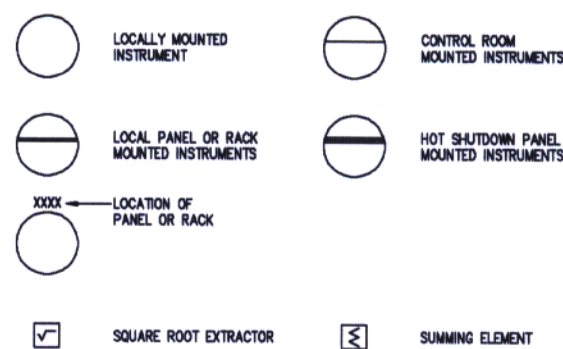
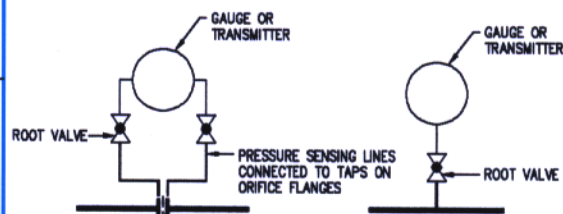


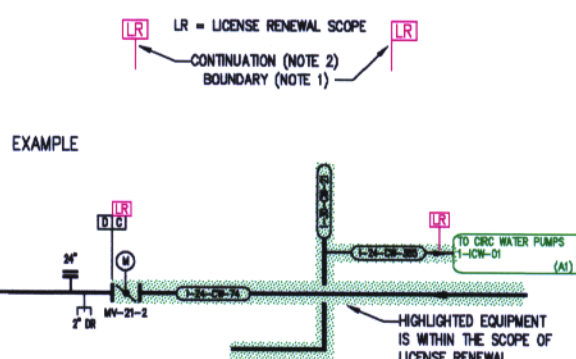
## INSTRUMENTATION



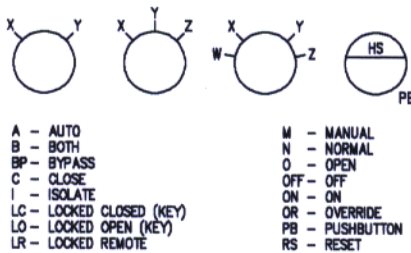
## TYPICAL INSTRUMENTATION ARRANGEMENT



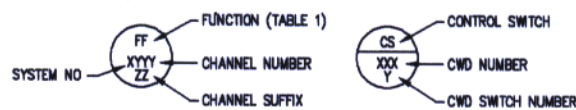
## LICENSE RENEWAL CATEGORY



## SWITCH POSITIONS &amp; ABBREVIATIONS



## INSTRUMENT AND SWITCH IDENTIFICATION



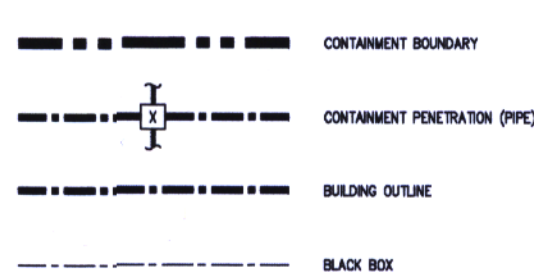
## MEASUREMENT CHANNELS ARE SUFFIXED AS FOLLOWS:

- 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

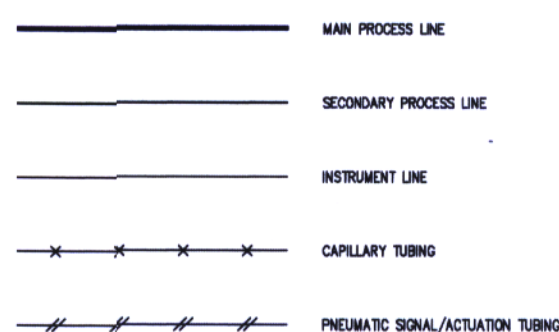
TABLE 1 INSTRUMENT IDENTIFICATION LETTERS DENOTE CHANNEL FUNCTION, NOT SPECIFIC EQUIPMENT

INSTRUMENTATION IDENTIFICATION LETTERS	SUCCESSING LETTERS
MEASURED OR INITIATING VARIABLE	READ OUT OR FUNCTION
A - AIR	ALARM
C - CONDUCTIVITY (ELECTRICAL)	CONTROL
D - DENSITY	DIFFERENTIAL ELEMENT
F - FLOW RATE	GLASS
G - HAND (MANUALLY INITIATED)	INDICATOR
I - CURRENT (ELECTRICAL)	RECORDING
J - POWER	RECORDING
K - TIME OR TIME SCHEDULE	RECORDING
L - LEVEL	RECORDING
M - MOISTURE OR HUMIDITY	RECORDING
N - VIBRATION	RECORDING
P - PRESSURE	RECORDING
Q - QUANTITY NUMBER	INTEGRATOR OR TOTALIZER
R - RADIATION	RECORDING
S - SPEED OR SELECTOR	RECORDING
T - TEMPERATURE	RECORDING
V - WEIGHT	RECORDING
X - ANALYSIS	RECORDING
Z - POSITION	RECORDING

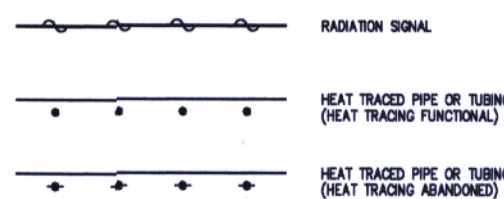
## BUILDING AND EQUIPMENT BOUNDARY LINES



## PIPE AND TUBING LINE TYPES



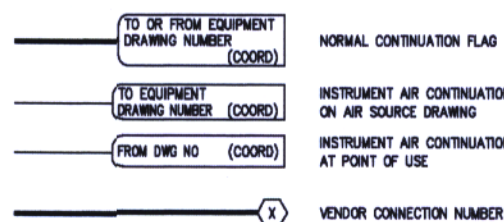
## ELECTRICAL LINE TYPES



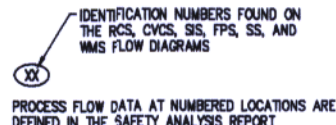
## MISCELLANEOUS LINE TYPES



## REFERENCE TO CONNECTING DRAWINGS

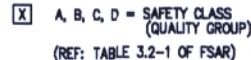


## PROCESS DATA POINTS



## COMPUTER DATA INPUT

## SAFETY CLASS CATEGORY



## ABBREVIATIONS

SIGNAL

CIS - CONTAINMENT ISOLATION

CSAS - CONTAINMENT SPRAY ACTUATION

MSIS - 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 CONTROLS

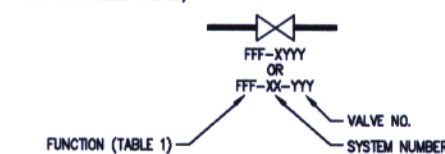
SG - STEAM GENERATOR

SIB - SAFETY INJECTION BLOCK

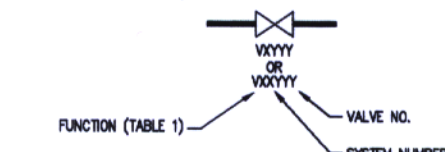
SIL - SAFETY INJECTION LOGIC

V - VENT TO ATMOSPHERE

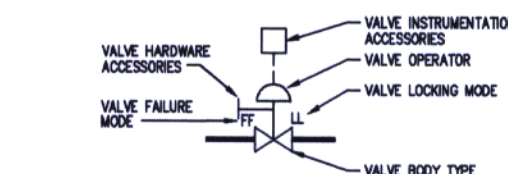
## AIR &amp; MOTOR OPERATED VALVES (EXCEPT NON-PROPORTIONAL, REMOTELY HAND CONTROLLED VALVES)



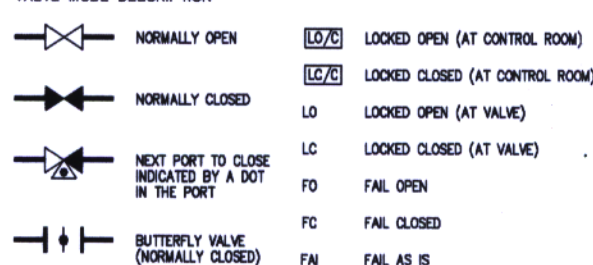
## MANUALLY OPERATED VALVES (INCLUDES NON-PROPORTIONAL, REMOTELY HAND CONTROLLED VALVES)



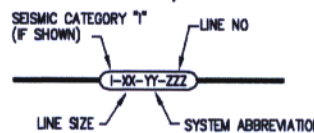
## VALVE DESCRIPTION



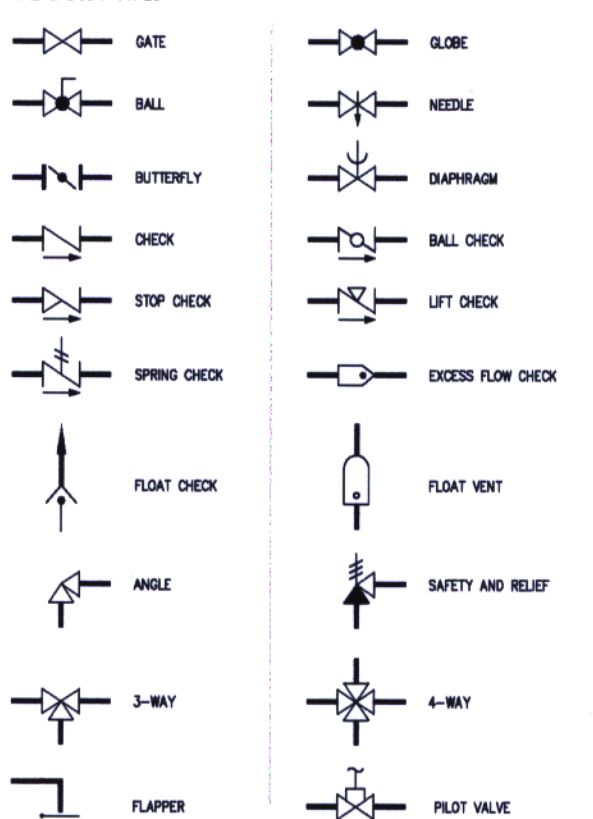
## VALVE MODE DESCRIPTION



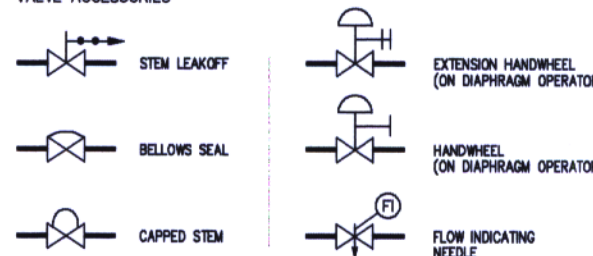
## PIPING LINE DESIGNATION



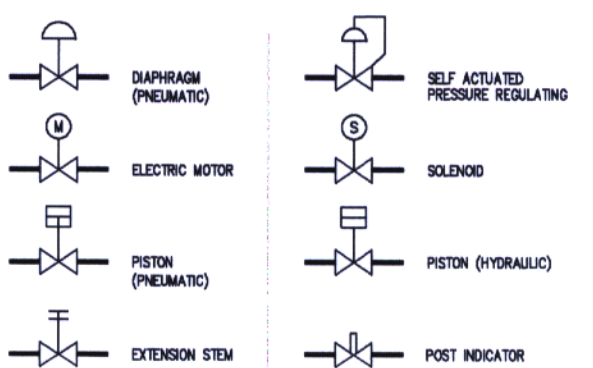
## VALVE BODY TYPES



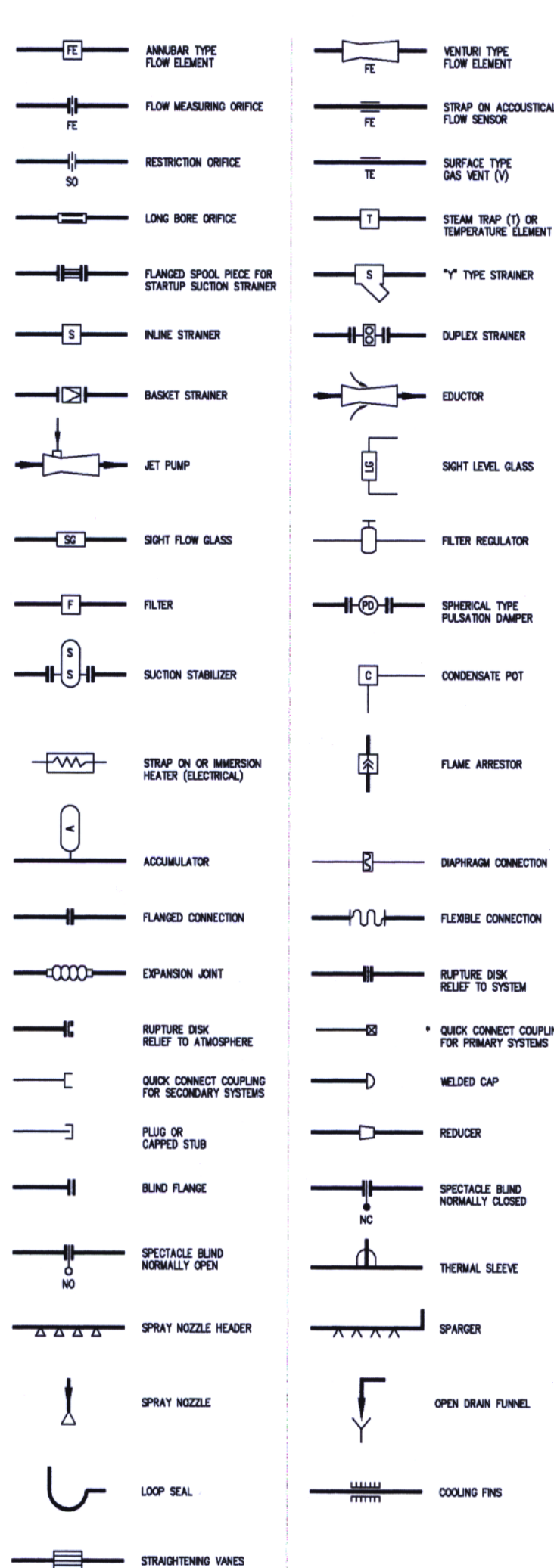
## VALVE ACCESSORIES



## VALVE OPERATORS



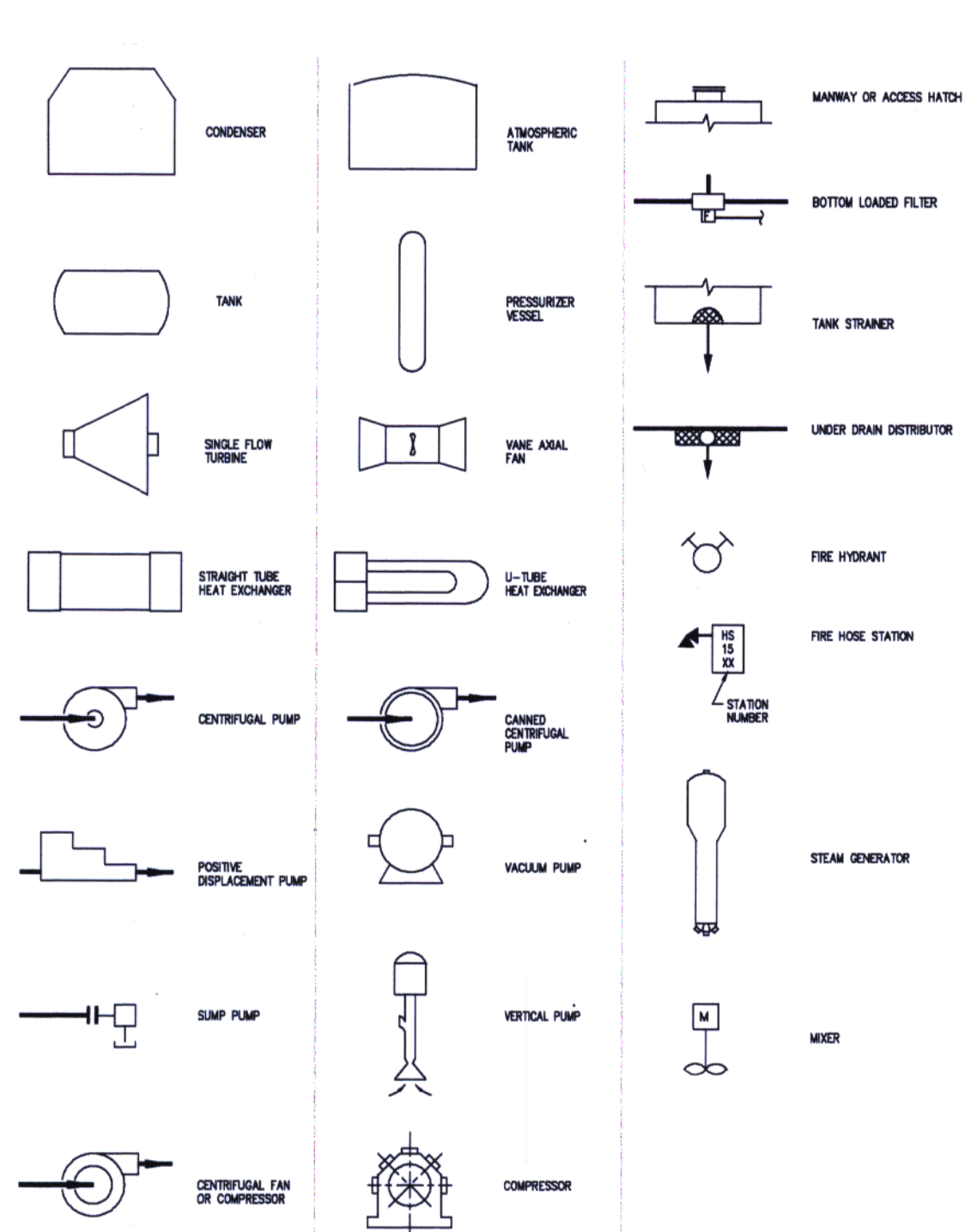
## PIPE AND EQUIPMENT ACCESSORIES



## 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 1GENERAL NOTES  
AND LEGEND

LICENSE RENEWAL BOUNDARY DRAWING

DRAWING NUMBER

REVISION

1-NOTES-01

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1NOTES01.DWG