INSTRUMENT IDENTIFICATION

- LOOP NUMBER

DIGITAL SYSTEM INTERFACES

ANALOG INPUT

ANALOG OUTPUT

DISCRETE INPUT

DISCRETE OUTPUT

CLARIFYING ABBREVIATIONS FIRST LETTER(S) - SUCCEEDING LETTER(S) - UNIT NUMBER

UNIT PROCESS

NUMBER

EXAMPLE SYMBOLS

LETTER	PROCESS OR INITIATING VARIABLE MODIFIER		READOUT OR READOUT OR PASSIVE FUNCTION		READOUT OR PASSIVE FUNCTION	
А	ANALYSIS (+)		ALARM			
В	BURNER, COMBUSTION		USER'S CHOICE (*)	USER'S CHOICE (*)	USER'S CHOICE (*)	
С	USER'S CHOICE (*)			CONTROL		
D	DENSITY (S.G.)	DIFFERENTIAL				
E	VOLTAGE		PRIMARY ELEMENT, SENSOR			
	FLOW RATE	RATIO (FRACTION)				
G	USER'S CHOICE (*)		GLASS, GAUGE VIEWING DEVICE	GATE		
Н	HAND (MANUAL)			HIGH		
	CURRENT (ELECTRICAL)		INDICATE			
J	POWER	SCAN				
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION		
L	LEVEL		LIGHT (PILOT)	T) LO		
М	MOTION	MOMENTARY			MIDDLE, INTERMEDIATE	
N	TORQUE		USER'S CHOICE (*)	USER'S CHOICE (*)	USER'S CHOICE (*)	
0	USER'S CHOICE (*)		ORIFICE, RESTRICTION			
Р	PRESSURE, VACUUM		POINT (TEST) CONNECTION			
Q	QUANTITY	INTEGRATE, TOTALIZE				
R	RADIATION		RECORD OR PRINT			
S	SPEED, FREQUENCY	SAFETY		SWITCH		
Т	TEMPERATURE			TRANSMIT		
U	MULTI VARIABLE		MULTI FUNCTION	MULTI FUNCTION MULTI FUNCTION		
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER		
W	WEIGHT, FORCE		WELL			
Χ	UNCLASSIFIED (*)	X AXIS	UNCLASSIFIED (*)	UNCLASSIFIED (*)	UNCLASSIFIED (*)	
Υ	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT		

TABLE BASED ON THE INSTRUMENTATION, SYSTEMS, AND AUTOMATION SOCIETY (ISA) STANDARD.

Z AXIS

(+) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL. SEE ABBREVIATIONS AND LETTER SYMBOLS. (*) WHEN USED, DEFINE THE MEANING HERE FOR THE PROJECT.

ACCESSORY DEVICES

GENERAL INSTRUMENT OR **FUNCTIONAL SYMBOLS**

FIELD MOUNTED

REAR-OF-PANEL

INACCESSIBLE)

(OPERATOR

ACCESSIBLE)

MCC MOUNTED

PLC FUNCTION

SHARED DISPLAY, SHARED CONTROL

COMPUTER FUNCTION

PANEL MOUNTED

Α	ANALOG
D	DIGITAL
Е	VOLTAGE
F	FREQUENCY

EXAMPLE

MOUNTED (OPERATOR H HYDRAULIC

TRANSDUCERS

CURRENT **PNEUMATIC**

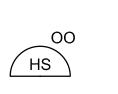
POSITION



ON AND OFF EVENT LIGHTS

PULSE FREQUENCY I INDICATOR RECORDER PULSE DURATION RESISTANCE SWITCH

С



DRIVE, ACTUATOR,

UNCLASSIFIED FINAL

CONTROL ELEMENT

SPECIAL CASES

ON-OFF HAND SWITCH, MAINTAINED CONTACT SWITCH (CONTROLLED

INSTRUMENT IDENTIFICATION LETTERS TABLE

	FIRST-LETTER		SUCCEEDING-LETTERS		
LETTER	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	READOUT OR PASSIVE FUNCTION	READOUT OR PASSIVE FUNCTION
Α	ANALYSIS (+)		ALARM		
В	BURNER, COMBUSTION			USER'S CHOICE (*)	
С	USER'S CHOICE (*)				
D	DENSITY (S.G.)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT, SENSOR		
	FLOW RATE	RATIO (FRACTION)			
G	USER'S CHOICE (*) GLASS, GAUGE VIEWING DEVICE GATE				
Н	HAND (MANUAL)			HIGH	
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
ĸ	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL	LEVEL LIGHT (PILOT)		LOW	
М	MOTION	MOMENTARY		MIDDLE, INTERMEDI	
N	TORQUE		USER'S CHOICE (*)	USER'S CHOICE (*)	USER'S CHOICE (*)
0	USER'S CHOICE (*)		ORIFICE, RESTRICTION		
Р	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD OR PRINT		
S	SPEED, FREQUENCY SAFETY			SWITCH	
Т	TEMPERATURE			TRANSMIT	
U	MULTI VARIABLE		MULTI FUNCTION	MULTI FUNCTION	MULTI FUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL		
Х	UNCLASSIFIED (*)	X AXIS	UNCLASSIFIED (*)	UNCLASSIFIED (*)	UNCLASSIFIED (*)
Υ	EVENT, STATE	Y AXIS		RELAY, COMPUTE,	

LINE LEGEND

PRIMARY PROCESS

(CLOSED CONDUIT,

BYPASS PROCESS

ANALOG SIGNAL (4 TO 20 mAdc, ETC.)

(ON/OFF, ETC.)

PNEUMATIC SIGNAL

FACILITY BOUNDARY PACKAGE SYSTEM

DISCRETE

* * * FILLED SYSTEM SIGNAL

——∘— DATA LINK

— TYPICAL BREAK

DASHED LINE INDICATES ALTERNATE FLOW STREAM)

SECONDARY PROCESS

PROCESS (OPEN CHANNEL)

HYDRAULIC SYSTEM SIGNAL

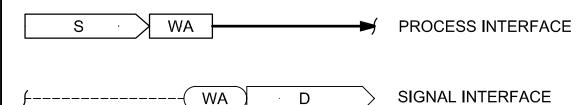
SOURCE UNIT PROCESS NO. (1 OR 2 DIGITS)

INTERFACE TO OR FROM PROCESS EXTERNAL TO PROJECT

PARALLELING LINES	AC AN CA CC
(2) 3(2) (A) (B)	CN CC CF
(A) TOTAL OF 2 SIGNALS	DO
(B) 3 TYPICAL SETS OF 2 SIGNALS EACH. TOTAL OF 6 SIGNALS.	D(
CONNECTING LINES	FC FC
	FC
	FF H(H(IS
NON-CONNECTING LINES	LE
	LC LF M/ M(M(

INTERFACE SYMBOLS

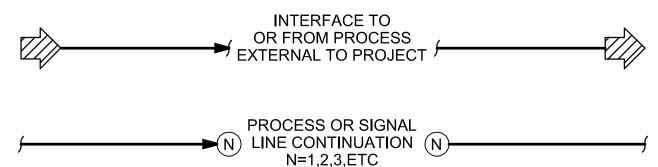
EQUIPMENT



INTERFACE NO. (2 DIGITS)

DESTINATION DRAWING NO.

SOURCE DRAWING NO.



ABBREVIATIONS & LETTER SYMBOLS

SHEET NUMBER

AC	ALTERNATING CURRENT AUTO-MANUAL
AM	COMPUTER-AUTO-MANUAL
CAM CCS	CENTRAL CONTROL SYSTEM
2	CHLORINE (TYPICAL: USE STANDARD CHEMICAL ELEMENT ABBREVIATIONS)
CM	COMPUTER-MANUAL
COD	CHEMICAL OXYGEN DEMAND
CP-X	CONTROL PANEL NO. X
DC	DIRECT CURRENT
DCS	DISTRIBUTED CONTROL SYSTEM
DCU	DISTRIBUTED CONTROL UNIT
DO	DISSOLVED OXYGEN
2	
FOS	FAST-OFF-SLOW
FOSA	
FOSR	
, , , , ,	FIELD PANEL NO. WX (W=UNIT PROCESS NUMBER X=PANEL NUMBER)
FR	FORWARD-REVERSE
HOA	
HOR	
ISR	
LEL	
LOS	LOCKOUT STOP
LR	LOCAL-REMOTE
- '`	

MANUAL-AUTO **MODULATE-CLOSE** MOTOR CONTROL CENTER NO. X ACC-X MSC OC MANUFACTURER SUPPLIED CABLE OPEN-CLOSE(D) OCA OPEN-CLOSE-AUTO OCR **OPEN-CLOSE-REMOTE** 00 ON-OFF OOA ON-OFF-AUTO OOR ON-OFF-REMOTE ORP **OXIDATION REDUCTION POTENTIAL** OSC OPEN-STOP-CLOSE pH PLC HYDROGEN ION CONCENTRATION PROGRAMMABLE LOGIC CONTROLLER RIO REMOTE I/O UNIT REMOTE MULTIPLEXING MODULE NO. X RM-X RTU-X REMOTE TELEMETRY UNIT NO. X SF **SLOWER-FASTER** SS START-STOP

SSC SUPERVISORY SET POINT CONTROL TOC TOTAL ORGANIC CARBON TOD TOTAL OXYGEN DEMAND TURB TURBIDITY VHC **VOLATILE HYDROCARBONS** VIBRATION DIFFERENCE SUM **MULTIPLY** DIVIDE CHARACTERIZED F(X)RAISED TO THE Nth POWER SQUARE ROOT AVG

AVERAGE REPEAT OR BOOST SELECT HIGHEST SIGNAL SELECT LOWEST SIGNAL

1:1

THIS IS A STANDARD LEGEND. THEREFORE, NOT ALL OF

PROJECT NAME I&C LEGEND SHEET 1

STREET BATON ROUGE, LA XXXX (XXX) XXX-XXXX

SELF CONTAINED VALVE & **GENERAL NOTES** DEVICE WILL RESTART TRANSMITTER **EQUIPMENT TAG NUMBERS** ON RETURN OF POWER AFTER POWER FAILURE). X UNCLASSIFIED COMPONENTS AND PANELS SHOWN WITH A SINGLE ASTERISK (*) ARE TO BE PROVIDED AS PART OF A **EXAMPLE** D-W-X-Y STOP-START HAND SWITCH **CURRENT TO PNEUMATIC** PACKAGE SYSTEM. MOMENTARY CONTACT TRANSDUCER (BACK OF SWITCHES (CONTROLLED PANEL, IN A FLOW LOOP) TRANSMITTER AS AN COMPONENTS AND PANELS SHOWN WITH A DOUBLE **DEVICE WILL NOT RESTART** ARV AIR RELEASE VALVE ACCESSORY TO A ASTERISK (**) ARE TO BE PROVIDED UNDER ON RETURN OF POWER AVRV AIR AND VACUUM RELEASE VALVE FLOW ELEMENT DIVISION 16, ELÉCTRICAL. AFTER POWER FAILURE). G GATE M MECHANICAL EQUIPMENT P PUMP THIS INFORMATION MAY BE USED ON THE PROJECT. PCV PRESSURE CONTROL VALVE PRV PRESSURE REGULATING VALVE PSV PRESSURE RELIEF VALVE T TANK **UNIT PROCESS NUMBER** LOOP NUMBER **UNIT NUMBER**