



DUKE ENERGY - BUCK STEAM STATION OIL / LUBE STORAGE FIRE ALARM AND DETECTION SYSTEM

DRAWING No.	DESCRIPTION	REVISION
FA-1	TITLE SHEET, SYMBOL LEGEND, DRAWING INDEX, CABLE SCHEDULE AND GENERAL NOTES	0
FA-2	FIRE ALARM PLAN, DEVICE LAYOUT AND WIRING, RISER DIAGRAM, INPUT/OUTPUT MATRIX AND CABLE LEGEND	0
FA-3	FIRE ALARM CONTROL PANEL, ENCLOSURE DETAIL, INTERNAL WIRING DIAGRAM AND DEVICE WIRING DETAILS	0

DRAWING INDEX - PLANS

SYMBOL	DESCRIPTION	MANUFACTURER	PART NUMBER
①	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	FIRELITE	SD355(A)
① _x	ADDRESSABLE HEAT DETECTOR, 135°, F FIXED/RATE-OF-RISE	FIRELITE	H359(A)
F	ADDRESSABLE PULL STATION	FIRELITE	BB-12LX
F _x	HORN/STROBE, WALL-MOUNT (X - CANDELA INDICATED ON DRAWINGS)	SYSTEM SENSOR	P2R
⊗ _x	STROBE, WALL-MOUNT (X - CANDELA INDICATED ON DRAWINGS)	SYSTEM SENSOR	SR
⊗ _{x,y}	END-OF-LINE RESISTOR (X - OHM VALUE INDICATED ON DRAWINGS)	FIRELITE	-
FACP	FIRE ALARM CONTROL PANEL	FIRELITE	MS-9050UD

CABLE TAG IDENTIFICATION

SYMBOL	DESCRIPTION	GAUGE (MM)	TYPE
A	SIGNAL LINE CIRCUIT (SLC)	14 AWG	FPL
B	NOTIFICATION APPLIANCE CIRCUIT (NAC)	14 AWG	FPL

GENERAL NOTES

1. ALL WIRING AND CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NFPA 70), NATIONAL FIRE ALARM CODE (NFPA 72), LOCAL AUTHORITIES HAVING JURISDICTION (AHJ) AND PROJECT SPECIFICATIONS.
2. THE FOLLOWING GUIDELINES APPLY TO THE SIGNALING LINE CIRCUIT (SLC) BETWEEN FIRE ALARM CONTROL PANELS AND INTELLIGENT DEVICES. THESE GUIDELINES SHOULD BE FOLLOWED IN ORDER TO PREVENT SYSTEM COMMUNICATION PROBLEMS AND/OR FAILURES:
 - A. POWER LIMITED (PL) OR NON-POWER (NPL) LIMITED CABLE MAY BE UTILIZED FOR THE ADDRESSABLE COMMUNICATION WIRING BETWEEN PANELS AND INTELLIGENT DEVICES (E.G. SMOKE DETECTORS, PULL STATIONS, ETC.)
 - B. TWISTED, UNSHIELDED CABLE TO BE USED PER THE RECOMMENDATIONS OF THE FIRE ALARM SYSTEM MANUFACTURER.
 - C. UTILIZE A CABLE THAT IS APPROVED FOR USE IN THE ENVIRONMENT (I.E., DUCT BANK, CONDUIT, CABLE TRAY) IN WHICH IT WILL BE RUN.
3. THE FIRE ALARM FIELD POWER SUPPLY (FPS) SHOULD BE MOUNTED WITH TOP OF ENCLOSURE AT APPROXIMATELY 72" ABOVE WALKING SURFACE FOR ACCESSIBILITY.
4. THE OPERABLE PART OF FIRE ALARM PULL STATIONS SHALL BE MOUNTED BETWEEN 42" AND 54" ABOVE THE WALKING SURFACE.
5. HORN/STROBES SHOULD BE MOUNTED BETWEEN 80" AND 96" ABOVE WALKING SURFACE AND SYNCHRONIZED.
6. SMOKE DETECTORS, WHERE APPLICABLE, SHOULD NOT BE LOCATED IN A DIRECT AIR FLOW NOR CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
7. HMIC SHUTDOWN RELAY TO BE LOCATED WITHIN 3 FEET OF UNIT.
8. SEE DRAWING No. FA-2 FOR WIRING DETAILS AND REFER TO MANUFACTURERS PUBLISHED INSTRUCTIONS.

PAUL J. INFERRERA, SET
NICET CERTIFICATION ID 121316
FIRE ALARM SYSTEMS LEVEL IV
SPECIAL HAZARD SUPPRESSION SYSTEMS LEVEL I
VALID THROUGH 1/1/2017

REVISIONS			
REVISION	DESCRIPTION	BY:	CHK:
0	ORIGINAL ISSUE	PJ	JB

PROJECT LOCATION: DUKE ENERGY - BUCK STEAM STATION 1555 DUNDALE ROAD SPENCER, NORTH CAROLINA 28159	DRAWING TITLE: TITLE SHEET, SYMBOL LEGEND, DRAWING INDEX, CABLE SCHEDULE AND GENERAL NOTES	DRAWING NO. FA-1	ARCH D 0	REVISION 0	DRAWN <i>Paul J. Inferrera</i>	ISSUE DATE 1/29/2015
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