

ARC FLASH HAZARD ANALYSIS

Turnkey Solutions to Arc Flash Hazards: Analysis & Training

PROBLEM:

Electrical systems in industrial settings may not be consistently or appropriately labeled to communicate shock and arc flash hazards. OSHA and NFPA regulations require facilities to ensure equipment is properly labeled and employees are adequately trained.

Maintenance and electrical staff may not have the time or knowledge to effectively complete an arc flash hazard analysis and train others. Furthermore, electrical equipment installed at different times or by different contractors may make compliance more difficult.



SOLUTION:

Pillar Innovations works with industrial customers to provide a turnkey solution to arc flash hazard analysis and training.

Process

- Collect Data
 - Public Utilities
 - Site Records & Drawings
 - Site Surveys
- Create One-Line Diagrams
- Analyze Data with Electrical Analysis Software
 - Complies with NFPA-70E, ANSI, & IEEE-1584 Standards
- Provide Report Including:
 - Hazard Analysis Results
 - Recommendations to Address High Hazard Equipment
 - Protective Device Size & Settings
 - One-Line Wiring Diagrams
- Provide Corrective Action
 - Proper Labeling
 - System Modifications
- Provide Training
 - Arc Flash & Shock Hazards
 - Understanding Warning Labels
 - Selecting Personal Protective Equipment (PPE)
 - FR, arc-rated, 2112, and electrically insulated PPE
 - Lockout/Tagout/Verify
 - Certificate of Attendance

Sample Project - Protective Device Settings - Fuse						
Fuse ID	Manufacturer	Model	Max Voltage	Speed	Size	Cont. Amp
AREATION BLWRV FU	Good Shammut (Paraz)	TRS	0.6 kV	Time Delay	10R	10
UNKNOWN FU	Bussmann	FRS-R	0.6 kV	Time Delay	20A	20
AREATION BLWR2 FU	Good Shammut (Paraz)	TRS	0.6 kV	Time Delay	30R	30
SILD 4 CONV FU	Good Shammut (Paraz)	TRS	0.6 kV	Time Delay	35R	35
BATCH BELT FU	Good Shammut (Paraz)	TRS	0.6 kV	Time Delay	200R	200
SILD 5 CONV FU	Good Shammut (Paraz)	TRS	0.6 kV	Time Delay	30R	30
BOILER ROOM FU	Bussmann	FRS-R	0.6 kV	Time Delay	60A	60
WATER HTS PMP (S) FU	Bussmann	FRS-R	0.6 kV	Time Delay	35A	35
BURNER DSI FU	Bussmann	FRS-R	0.6 kV	Time Delay	8A	8
BOILER TRANE1 FU	Bussmann	FRS-R	0.6 kV	Time Delay	20A	20

Project	Sample Project	EST	Page	1	
Location	Sample Site	0.6 kV	Date	06-17-2017	
Contract			SN	06-002222L	
Engineer	Michael Caporaso	Subj Code	AF 1ph	Revision	None
Filename	Sample Project		Config	None	

