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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.

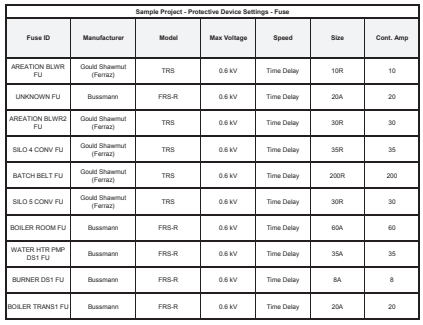
Maintenance and electrical staff may not have the time or knowledge to effectively complete an arc flash hazard analysis and train others. Furthermore, electrical equipment installed at different times or by different contractors may make compliance more difficult.

SOLUTION:

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

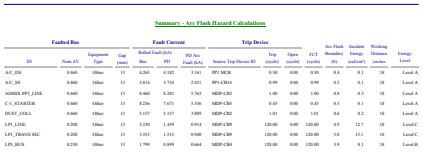
Process

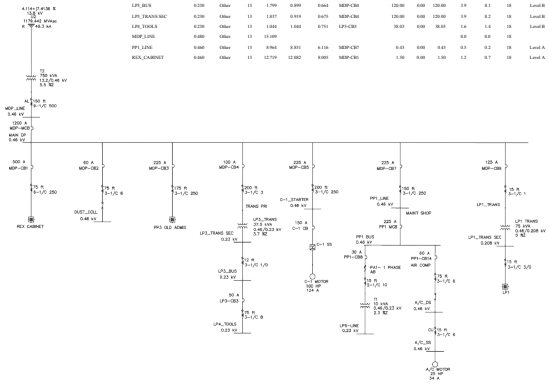
- Collect Data
  - Public Utilities
  - Site Records & Drawings
  - Site Surveys
- Create One-Line Diagrams
- Analyze Data with Electrical Analysis Software
  - Complies with NFPA-70E, ANSI, & IEEE-1584 Standards
- Provide Report Including:
  - Hazard Analysis Results
  - Recommendations to Address High 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 BLWR FU	Gould Shawmut (Ferraz)	TRS	0.6 kV	Time Delay	10R	10
UNKNOWN FU	Bussmann	FRS-R	0.6 kV	Time Delay	20A	20
AREATION BLWR2 FU	Gould Shawmut (Ferraz)	TRS	0.6 kV	Time Delay	30R	30
SILO 4 CONV FU	Gould Shawmut (Ferraz)	TRS	0.6 kV	Time Delay	35R	35
BATCH BELT FU	Gould Shawmut (Ferraz)	TRS	0.6 kV	Time Delay	200R	200
SILO 5 CONV FU	Gould Shawmut (Ferraz)	TRS	0.6 kV	Time Delay	30R	30
BOILER ROOM FU	Bussmann	FRS-R	0.6 kV	Time Delay	60A	60
WATER HTR PMP DS1 FU	Bussmann	FRS-R	0.6 kV	Time Delay	35A	35
BURNER DS1 FU	Bussmann	FRS-R	0.6 kV	Time Delay	8A	8
BOILER TRANS1 FU	Bussmann	FRS-R	0.6 kV	Time Delay	20A	20





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