



**MATRIX PDM  
ENGINEERING**

# ARC FLASH ANALYSIS SERVICES

Matrix PDM Engineering's flexibly works with each client to meet their specific arc flash needs. Whether we provide a thorough investigation and study to provide recommendations and services or our consultants work with the client's in-house staff to provide a report and solutions, we can adapt to solve any client's challenges or budget constraints.

Matrix PDM Engineering utilizes more than 30 years of experience to provide arc flash analysis solutions.

**A HIGHER STANDARD IN ENGINEERING.**

**NFPA  
70E®**

**Standard for  
Electrical  
Safety in the  
Workplace®**

Elimination  
Substitution  
Engineering Controls  
Awareness  
Personal Protective Equipment

# ARC FLASH ANALYSIS SERVICES

Matrix PDM Engineering provides engineering services to a full spectrum of industries while maintaining Client safety as a key priority. An arc flash is a dangerous explosion caused by a short circuit. Arc flashes are caused by dropped tools, accidental contact with live parts, a deteriorating electrical system, or a build-up of conductive dust. An arc flash can result in burns, hearing loss, concussion, broken bones, shrapnel injury, or loss of life.

## OSHA & NFPA Standards

OSHA (29 CFR 1910) requires that the employer assess the hazards in the workplace and identify personal protective equipment PPE be worn by employees to protect them from the hazard.

NFPA 70E-2018 "Standard for Electrical Safety in the Workplace" provides guidelines for conducting an Arc Flash Hazard Analysis to determine where potential arc flash hazards exist throughout the electrical system and what type of PPE is required for the task.

## Registered Matrix PDM engineer Arc Flash analysis services:

- Determine appropriate levels of PPE required
- Field walk-down/data collection
- Update existing facility electrical one-line drawings
- Breaker/fuse coordination study
- Short circuit and arc flash analysis
- Summary report of findings
- Generation of warning labels
- Arc flash mitigation engineering

Matrix PDM Engineering provides cost-effective solutions to update existing arc flash studies.

NFPA 70E Article 130.5 states an arc flash study needs to be reviewed every five years or whenever there is a significant change in the electrical system. Matrix PDM Engineering is assisting Clients by providing Arc Flash Hazard Analysis and updates of their electrical drawings.



## WARNING

### Arc Flash and Shock Hazard Appropriate PPE Required

65.5"	Flash Hazard Boundary
8	Cal/cm2 Flash Hazard at 18 Inches
PPE Required:	
Arc Rated Long Sleeve Shirt and Long Pants plus Arc Rated Coverall including Flash Suit Hood for Min 25Cal Rating, Hard Hat with FR Liner, Safety Glasses, Hearing Protection, Rubber Insulating Gloves with Leather Protectors, Leather Work Shoes	
0.48	kV Shock Hazard when cover is removed
1' - 0"	Restricted Approach Boundary
3' - 6"	Limited Approach Boundary

Equipment Name: DS-700  
Matrix PDM

Fed By: DS-700 FUSE  
10/27/2020



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For more information  
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