

Electrical Safety Program Validation

Setting up an OSHA / NFPA 70E compliant electrical safety program has proven to be a very difficult task for many facilities. Now Cadick Corporation and Multi-skill Training Services have joined forces to offer a comprehensive suite of services that will help you develop, implement, and **validate** your electrical safety program. A tailored program developed from the following six phases will provide an optimum solution for you plant or facility.



Phase 1 — Preliminary Analysis & Personnel Orientation

Using data specific to your plant or facility, our engineers will start by performing a preliminary short circuit analysis, coordination study, and arc energy analysis. Although the results of these preliminary engineering studies are not comprehensive, they will serve to identify potential trouble spots, start the process of specifying required personal protective equipment, and estimate the level of effort that may be required for the upgrade and/or establishment of your electrical safety program.

After the preliminary studies are performed, our representative will present a one day training seminar which presents the results of the studies as well as laying out a specific plan for the completion of your safety program in a manner that will help to create compliance with NFPA 70E and OSHA requirements.



Phase 2 — Assessment

Depending on the results of Phase 1, the next steps include one or a combination of five key procedures:

- Completion of the preliminary engineering studies
- An electrical safety audit
- A job/task analysis
- A personnel skills assessment
- A training needs analysis.

These five procedures are performed using industry standard methodologies and will pinpoint the areas of need for your facility. Phase 2 is critical to the overall program since it provides the baseline information needed for you to set up your program, identify your qualified personnel, and provide the necessary equipment, procedures, and training to validate your program.

Bus Name	Protective Device Name	Bus kV	Bolted Fault (kA)	Aring Fault (kA)	Delay Time (sec.)	Opening Time (sec.)	Ground	Equip Type	Gap (mm)	WV Flash Boundary (ft)	Working Distance (ft)	Incident Energy (cal/cm2)	Required PPE Clothing
850	7B Bus 2a & 2b	0.48	19.52	19.52	11.70	0.33	0.000	PNL	25	90	24	10.5	Class FR
853	7B Bus 2a & 2b	0.48	19.52	19.52	11.61	0.33	0.000	PNL	25	90	24	10.4	Class FR
857	7B Bus 2a & 2b	0.48	19.52	19.52	11.61	0.33	0.000	PNL	25	90	24	10.4	Class FR
8AE1	F-2a107	0.48	4.03	4.03	11.17	3.02	0.004	PNL	25	89	18	0.05	Class NFR
8AE2	F-2a100	0.48	4.03	4.03	11.17	7.21	0.004	PNL	25	3	18	0.13	Class NFR
8AF1	F-2a05	0.48	3.76	3.76	11.17	2.84	0.004	PNL	25	2	24	0.02	Class NFR

Phase 3 — Develop Electrical Safety Procedures and Safe Work Practices

Based on data from the first two phases as well as existing client materials, our personnel will develop and tailor all required safety procedures, practices, and policies.

Phase 4 – Safety Training Program Development

Safety training is developed as required for each client. Although the training will vary from one client to another, they will generally fall into three major categories:

1. Fundamental safety awareness training is developed for all. This very short presentation of two or three hours is often presented by the client.
2. Core safety training is a two and one-half day program designed to meet the fundamental requirements of standards such as OSHA CFR1910.331-.335 and NFPA 70E.
3. Advanced, equipment specific training is intended for qualified personnel and is developed for a specific client's needs. It includes hands-on time in equipment familiarization and hazard recognition.

All safety training that is developed will utilize existing materials and packages to the extent possible. This will result in reduced cost and complexity.

Phase 5 – Safety Training Presentation

The client may opt to have all or any portion of the developed training presented by our personnel. Many clients find that using our personnel for training presentation results in a net savings of time and money.

Phase 6 – An Electrical Safety Tracking Program

Working together our specialists and client personnel will develop and implement a tracking program that includes full information for personnel, training, procedures, and equipment. Such a program will support a safe working environment and help to satisfy the regulatory requirements for record keeping and documentation.



Benefits

The following are only a few of the many benefits that this program provides.

- Safe and efficient operation of the electric power system
- A sound basis for the selection criteria of qualified personnel
- Reduced fees and fines incurred should an accident occur

For More Information

Web:

<http://www.cadickcorp.com>
<http://www.multi-skilltraining.com>

Phone:

CC — (972) 240-1594
MST — (270) 753-3919