



DEPARTMENT OF VETERANS AFFAIRS VA MEDICAL CENTER – ERIE, PA

Fault Current Study and Arc Flash Analysis

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APPENDIX

I. Relevant Information

- A. Data from CLIENT (Directory: **Data From Client (Pictures)**)
- B. Field Observations (File: **Device Observations**)
- C. Field Notes (Available on Disk only)
 - 1. Directory: **Field Notes - Veterans Erie PA Data Sheets**
 - 2. Directory: **Field Notes – Picture Sets**
- D. NETA Frequency of Maintenance Test Chart
- E. Meeting Notes and Q&A Responses
- F. CD ("Disk")

II. Short Circuit Model Analysis Results

- A. Base Case Model
 - 1. Bus Evaluation Comprehensive Fault Report (Available on Disk only)
File: **Short Circuit - bus evaluation comprehensive fault report**
 - 2. Device Evaluation Comprehensive Bus Report (Available on Disk only)
File: **Short Circuit - device evaluation comprehensive bus report**
 - 3. Short Circuit Analysis/Model Output
 - a) Fault Analysis Input Report (Available on Disk only)
File Name: **DAPPER – Fault Analysis Input Report**
 - b) Fault Contribution Report (Available on Disk only)
File Name: **DAPPER – Fault Contribution Complete Report**

III. Device Coordination Model Analysis Results

- A. TCC Curves: As Found and Recommended
 - 1. TCC Curves: As Found (Available on Disk Only)
File Name: **TCC Curves AS FOUND** {Directory}
 - 2. TCC Curves: (Recommended Option 1) (Available on Disk Only)
File Name: **TCC Curves - Option 1** {Directory}
 - 3. TCC Curves: (Recommended Option 2) (Available on Disk Only)
File Name: **TCC Curves - Option 2** {Directory}
- B. TCC Settings
 - 1. TCC Settings Report (As Found): (Available on Disk only)
File Name: **TCC Settings Report - As Found 082911**
 - 2. TCC Settings Report (Recommended Option 1): (Available on Disk only)
File Name: **TCC Settings Report - Recommended 083011**
 - 3. TCC Settings Report (Recommended Option 2): (Available on Disk only)
File Name: **TCC Settings Report - Recommended 2 083011**

IV. Arc Flash Hazard Model Analysis Results

- A. Arc Flash Hazard Evaluation Report (As Found) (Available on Disk only)
File Name: **Arc Flash Evaluation Report (arc flash_ieee1584)**
- B. Arc Flash Hazard Evaluation Report {Labels} (Available on Disk only)
File Name: Arc Flash Evaluation Report (Label # Designation)

V. Model Input / Output Data Sheets

- A. Component (System) Input Model Database (Available on Disk only)
- B. Model Drawings
 - 1. Display View (Available on Disk only)
File Name: **Display View Drawings – 9-1-11**
 - 2. Short Circuit View (Available on Disk only)
File Name: **Short Circuit View Drawings – 9-1-11**
 - 3. Arc Flash View (Available on Disk only)
File Name: **Arc Flash View Drawings – 9-1-11**

- C. Short Circuit Analysis/Model Output
 - 1. SKM Data – Input Report (English) (Available on Disk only)
File Name: **Component (System) Input Model Data Base**
 - 2. Feeder Schedule (Available on Disk only)
File Name: **Feeder Schedule**
 - 3. Transformer Schedule: (Available on Disk only)
File Name: **Transformer Schedule**
- D. Device Observations (Available on Disk)
File Name: **Device Observations**
- E. Model File (Can only be opened with Model Software) (Available on Disk only)
Directory Name: **SKM PTW**

VI. Drawings

- A. System Study One-Line Diagrams (DWG format as produced by Model)
File Name: **Erie PA VAMC Drawings – 09-01-11**

VII. Specific Short Circuit Analysis Procedures

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 - 2. Short Circuit Calculations
 - 3. Switchgear Ratings
 - 4. Standards for Short Circuit Duty Calculations
 - 5. Type of Short Current Calculations
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 - 2. Interrupting Duty

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IX. Specific Arc Flash Procedures

- A. Arc Flash Study Procedures
- B. Qualified & Unqualified Personnel
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 - 2. Unqualified Persons(s)
 - 3. Qualified Persons(s)

- C. Limited Approach Boundary & Live Parts
 - 1. Limited Approach Boundaries
 - 2. Live Parts

- D. Prohibited & Restricted Approach Boundaries
 - 1. Prohibited Approach Boundary
 - 2. Restricted Approach Boundary

- E. Approach Boundaries to Live Parts for Shock Protection

- F. Hazard Risk Category Classifications

- G. Protective Clothing & PPE Matrix

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X. Abbreviations and Trademarks

XI. References