



Workshop overview

This 2-day class is a follow up course to the Electric Utility System Operations workshop. It is tailored for participants who work in designing and operating a distribution system, such as field crews, substation technicians, designers, drafters and support staff. The workshop provides in-depth coverage of an electric utility's distribution system from the distribution substation to a customer's connection.

You'll Learn:

- The theory behind ferroresonance and ways to minimize ferroresonance.
- Capacitors for voltage control, harmonics and stray voltage.
- The reason loose and open neutrals destroy electronic equipment.

Key Topics:

- Sizing Conductors
- Fault Current Studies
- Open Neutrals
- Voltage Control
- Open Delta Systems
- Stray Voltage
- Transformer Phase Shifts
- Ferroresonance
- Harmonics
- Coordination Studies
- Reclosers
- Sectionalizers

Who should attend?

Substation Technicians, Engineer Technicians, Engineers, Journeymen Linemen, Line Construction personnel, Design Engineers, Drafters, field crews, and support staff.

Registration fee (does not include lunch)

\$575 per person for FMEA utility and associate members

\$725 per person for non-members

Registration Deadline

Please register no later than March 31, 2010

Instructor

A.R. "Skip" Collier, Professional Training Systems, Portland, Oregon.

Cancellation policy

Cancellations must be made in writing and should be sent to bthompson@publicpower.com. Cancellations after April 1, 2010 will be charged 25percent of the registration fee. No shows will be charged 50 percent of the registration fee.

Questions

Contact **Cheryl Anderson**, Director of Training and Member Services at **(850) 251-5465**.

Workshop location

Orlando Utilities Commission
Reliable Plaza
100 West Anderson Street
Orlando, FL 32801
(407) 423-9100, ext 2371

Hotel location

Grand Bohemian Hotel
325 S. Orange Avenue
Orlando, FL 32801
Phone: (407) 313-9000
Room Rate: \$129



Florida Municipal Electric Association — Utility Training Institute

Electric Distribution Systems Workshop Part II

April 15-16, 2010 ♦ Orlando, Florida ♦ 9:00 a.m.- 4:00 p.m.

Meeting registration form

Please complete the following registration form and fax or e-mail it to FMEA. Duplicate and complete this form for each person attending. Registration confirmation will be by e-mail.

Name _____ Nickname for badge _____

Title _____

Organization _____

Address _____ City _____ State _____ Zip _____

Phone (____) _____ Fax (____) _____ Cell (____) _____

E-mail _____

Payment information (Does not include lunch)

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\$725 per person for non-members

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Check enclosed for \$ _____ Please make checks payable to **FMEA**.

Charge my: Visa Mastercard AMEX in the amount of _____ Bill me (**FMEA utilities only**)

Cardholder name _____ Card number _____

Exp. date _____ Cardholder signature _____

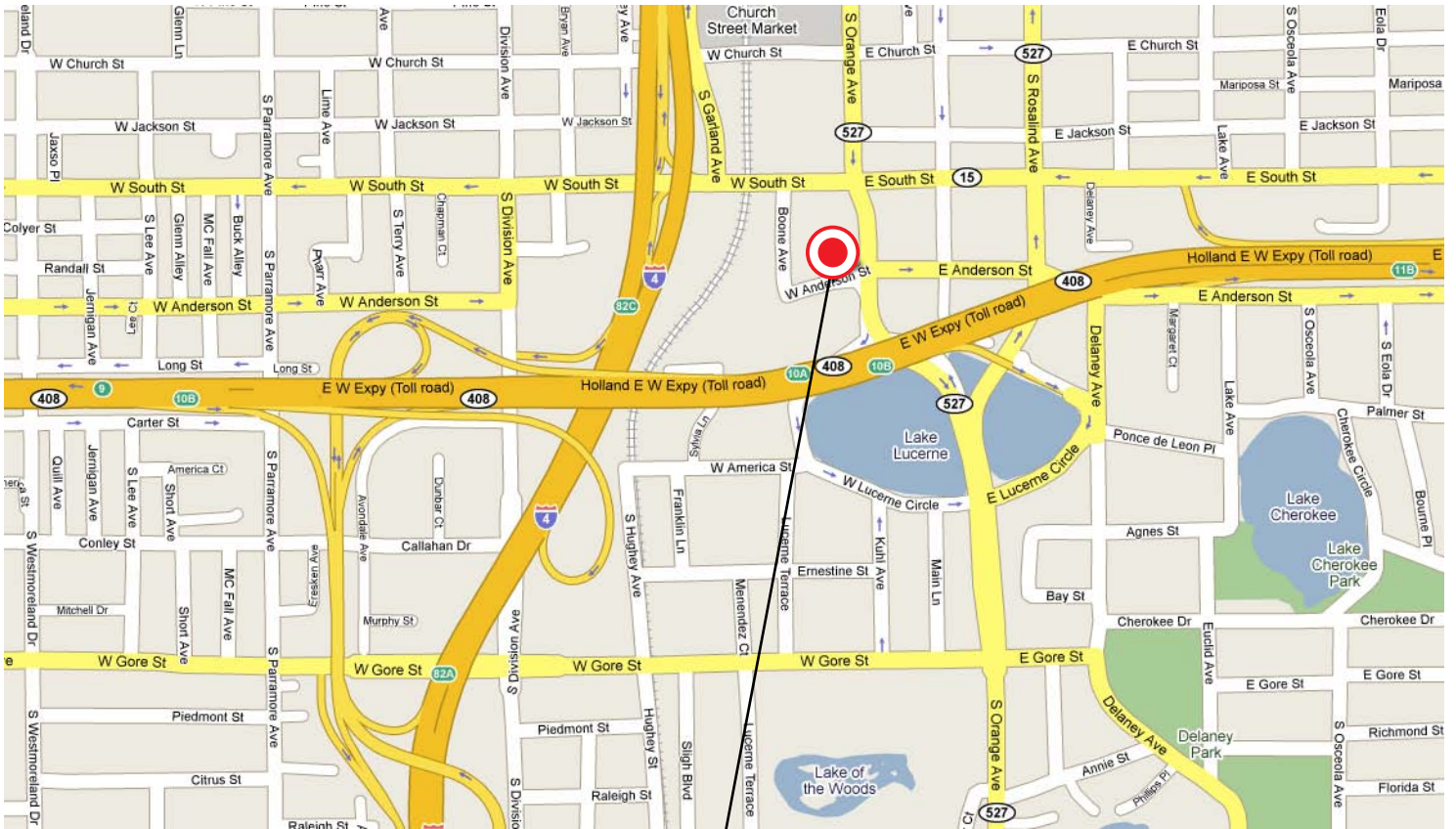
Billing Address _____ City _____ State _____ Zip _____

CCV/CVV2 Code _____

FAX COMPLETED FORM TO FMEA AT: (850) 224-2831 or (850) 222-0358

FMEA, P.O. Box 10114, Tallahassee, FL 32302-2114
Tel: (850) 224-3314 Fax: (850) 224-2831 E-mail: fmea@publicpower.com
www.publicpower.com

For more than 60 years, the Florida Municipal Electric Association has supported and strengthened Florida's community-owned municipal utilities, their 6,000 employees, and the 3 million Floridians they serve. FMEA's Utility Training Institute offers statewide training and certification programs for Florida's municipal electric utilities, electric cooperatives and investor-owned utilities.



Orlando Utilities Commission

Reliable Plaza

100 West Anderson Street
Orlando, FL 32801

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Phone: (407) 313-9000

For Assistance Contact:

Cheryl Anderson (850) 251-5465
FMEA Director of Training & Member Services
Reliable Plaza (407) 423-9100, ext 2371
FMEA Office (850) 224-3314



From the North (via I-75)

- I-75 South toward Tampa
- Take exit 328 on the left for Florida's Turnpike South toward Orlando0.7 mi
- Merge onto Florida's Turnpike/Ronald Reagan Turnpike/SR-91 *Toll road*41.4 mi
- Take exit 265 for SR-408 Toll East toward Orlando/Titusville *Toll road*1.1 mi
- Merge onto East-West Expy/SR-408 East *Toll road*13.0 mi
- Take exit 10B to merge onto I-4 East toward Daytona Beach 0.9 mi
- Exit on the left onto West South St. 0.2 mi
- Turn right at Boone Ave. 0.1 mi
- Boone Ave turns left and becomes West Anderson St. 256 ft

From the North (via I-95)

- I-95 South toward Daytona Beach
- Take exit 260B to merge onto I-4 West toward Orlando 49.9 mi
- Take exit 82C toward Anderson St. 0.1 mi
- Turn right at South Division Ave. 0.2 mi
- Turn right at West South St. 0.3 mi
- Turn right at Boone Ave. 0.1 mi
- Boone Ave. turns left and becomes West Anderson St. 256 ft

From the South (Miami)

- Head south on South Miami Ave. toward SW 1st. St/SR-968 331 ft
- Turn right onto the ramp to I-95 North 404 ft
- Keep right at the fork, follow signs for I-95 North and merge onto I-95 North .. 10.4 mi
- Take exit 12A on the left for Florida's Turnpike/State Hwy 826 West 0.8 mi
- Keep left at the fork to continue toward Florida's Turnpike N/SR-91 and merge onto Florida's Turnpike N/SR-91 *Toll road* 216 mi
- Take exit 259 for I-4 toward Tampa/Orlando *Toll road* 0.4 mi
- Keep right at the fork to continue toward I-4 East *Toll road* ... 262 ft
- Keep right at the fork, follow signs for I-4 E/Orlando and merge onto I-4 East *Toll road* 6.2 mi
- Exit on the left onto West South St. 0.2 mi
- Turn right at Boone Ave. 0.1 mi
- Boone Ave turns left and becomes West Anderson St. 256 f t

From the South (via I-75)

- I-75 N via the ramp to Tampa
- Take exit 261 to merge onto I-4 East toward Orlando 74.4 mi
- Exit on the left onto West South St. 0.2 mi
- Turn right at Boone Ave. 0.1 mi
- Boone Ave. turns left and becomes West Anderson St. 256 f t