



**Atlantic**

**EVERY<sup>™</sup>  
SKILL.**

**CHARLOTTE, NORTH CAROLINA**

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**PROFESSIONAL SERVICE AND PARTS TRAINING**

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**2010  
Power Generation  
Training**

**PROGRAM  
AND  
SCHEDULE**

# General Information

## ENROLLMENT PROCEDURES

1. Fill out enclosed request form or call the Training Department for enrollment.
2. Forward to Cummins Atlantic LLC.
3. Upon receipt, the Training Department will confirm, in writing, your class assignment.
4. Classes are limited to 6 to 12 students based upon curriculum.
5. Comfortable clothing and safety shoes suitable for working on engines and hardware are recommended.  
**Shorts, tennis shoes and sandals are not considered appropriate.**
6. Students will be required to wear safety glasses and hearing protection in our hands-on area.
7. Any questions should be directed to the Training Department (704) 596-7690.

## PAYMENT PROCEDURES

1. **Payment is due the first day of class.**
2. Prepayment by check is requested with enrollment or can be hand carried by the student. Make check payable to Cummins Atlantic LLC. Attn: Training Department.
3. Prior credit approval is necessary for all company purchase orders.
4. **CANCELLATIONS / REFUNDS:**  
Cancellations made less than 3 working days prior to the class start date are subject to a \$50.00 cancellation fee. Refunds WILL NOT be granted after class begins. If for any reason the class is cancelled, participants will be notified and the tuition will be fully refunded.

# CURRICULUM

### Commercial Power Generation CORE Classes

In 2008 Cummins Power Generation added a list of CORE class prerequisites that are required for all commercial power generation product qualifications. The Fundamentals of Standby Equipment is the only “classroom” CORE class. All the other courses are Power Gen University and Cummins Virtual College courses. The PGU courses are as follows:

CMT 6058 InPower Familiarization

CMT 6038 Electrical Safety Intro to medium voltage safety

CMT 6040 Lockout / Tagout

CMT 6042 OSHA Familiarization Training

CMT 6037 Electrical Hazards (NFPA70E overview)

CMT 6039 Electrical Safety Intro to low voltage safety

CMT 6041 Contractor Safety Training

For a complete list of the required Cummins Virtual College courses refer to the service training link on Quick Serve On-Line by viewing a smart program guide for “CORE” or call our training department.

### 1. Fundamentals of Standby Equipment

This course is designed for entry-level technicians that need a basic understanding of electrical fundamentals, basic schematic reading, and understanding of CPG (Cummins Power Generation) Commercial generator sets and automatic transfer switches. This course is designed to introduce entry-level or transitional level technicians to installation, operation, troubleshooting, and repair of CPG Products.

**This is a required class for all Commercial CPG qualifications and is part of the CORE training requirements.**

**5 days     \$1,375**

### 2. PowerCommand Control 1301 Qualification (2004-17Q)

This class is designed to introduce the PowerCommand Control 1301. Class features include a complete sequence of operation of all modes in the PCC 1301 operation system, control hardware / features, installation, operation and troubleshooting practices. **Students must bring their laptops with InPower software pre-loaded to class each day.**

**Prerequisites:** Fundamentals of Standby Equipment and the other CORE requirements.

**2 days     \$550**

**3. Automatic Transfer Switches Qualification (2000-05Q)**

This course is designed to introduce the technician to the installation, adjustment, service, troubleshooting and repair of CPG Automatic Transfer Switches (LTIII and OTIII). Technicians will learn to use Service and Installation Manuals and wiring schematics to troubleshoot and repair CPG Transfer Switches.

**Prerequisites:** Fundamentals of Standby Equipment and the other CORE requirements.

**5 days      \$1,375**

**4. PowerCommand Control 3100 Qualification (2002-44Q)**

This course concentrates on installation, operation, adjustment, and troubleshooting of the 'original' PowerCommand Control. The instructor covers the menu systems, voltage regulator and governor adjustments.

**Prerequisites:** Fundamentals of Standby Equipment and the other CORE requirements.

**3 days      \$825**

**5. Gaseous Fuels / NSPS (New Source Performance Standards)**

This training course was developed to cover basic gaseous fuel information along with the new EPA requirements listed in New Source Performance Standards (NSPS). It is designed to provide technicians with an overview of the installation, adjustment, troubleshooting, service, and repair of CPG gaseous fueled generator sets. Emphasis will also be placed on proper set-up and adjustments on initial start-up. Technicians will be trained on identifying common problems with gaseous fuel systems.

**Prerequisite:** Fundamentals of Standby Equipment and the other CORE requirements.

**2 days      \$550**

**6. OTPC Transfer Switches / InPower Qualification (2000-18Q)**

This course covers installation, operation, troubleshooting, and repair of the Cummins Power Generation OTPC "Smart Switch." Training will include: the microprocessor based operating system, use of the face-mounted touch-pad and screen to set up operating parameters and the "Power Command for Windows" network componentry. The InPower portion of the class covers installation and use of the InPower software with the OTPC "Smart Switch" to perform calibrations, troubleshooting and the use of "Capture" files.

**Students must bring their laptops with InPower software pre-loaded to class each day.**

**Prerequisites:** Fundamentals of Standby Equipment and the other CORE requirements.

**5 days      \$1,375**

**7. PowerCommand Control 2100 Qualification (2001-28Q)**

Technicians will learn the features and menus of the PowerCommand Control 2100, generator set control hardware location and the function of each module in the control. This course also includes a complete sequence of operation for all modes in the PCC 2100 operating systems, troubleshooting practices and installation procedures for generator sets with the PCC 2100. This class will expand your knowledge of the InPower software by including practice in programming and calibrating the control, and the breakout tool used with the PCC 2100.

**Students must bring their laptops with InPower software pre-loaded to class each day.**

**Prerequisites:** Fundamentals of Standby Equipment, the other CORE requirements.

**2 days      \$550**

**8. PowerCommand Control 1.X (1302) Qualification (2008-08Q)**

This class is designed to introduce the PowerCommand Control 1302. Class features include a complete sequence of operation of all modes in the PCC 1302 operation system, control hardware / features, installation, operation and troubleshooting practices. **Students must bring their laptops with InPower software pre-loaded to class each day.**

**Prerequisites:** Fundamentals of Standby Equipment and the other CORE requirements.

**2 days      \$550**

### 9. PowerCommand Control 2.X Qualification (2008-13Q)

This training session will cover the PCC 2.X (PCC 2300) to be seen on the Cummins MidRange engine powered generators. The PCC 2.X will be introduced in two phases (FAE and Hydro-Mechanical). The FAE version was introduced in first quarter 2008. This course will give you the working knowledge of the FAE engine communications and the new HMI's for this genset platform. We will cover the control, set-up and operation, HMI's, PGI, Modbus, installation, service, operation and troubleshooting practices for this control system. **For an additional day of Cummins Insite familiarization training, distributor technicians should arrive for this class one day earlier at no additional charge. This additional Insite familiarization course is designed for distributor Commercial Power Generation technicians. Students must bring their laptops with InPower software pre-loaded to class each day.**

**Prerequisites:** Complete qualification path (including classroom training) for the PCC 1.X.

**3 days                      \$825**

### 10. PowerCommand Control 3.X Qualification (2008-18Q)

This course is designed to introduce the PowerCommand 3300 control. The course also includes a complete sequence of operation of all the modes in the PCC 3300 operating systems, paralleling capabilities, troubleshooting practices and installation procedures for generator sets with this PCC control. The technicians will learn control hardware and features.

**Students must bring their laptops with InPower software pre-loaded to class each day.**

**Prerequisites:** Complete qualification path (including classroom training) for the PCC 2.X qualification class and PGU course CMT 6035 PCC 2.X Familiarization.

**5 days                      \$1,375**

### 11. Large Commercial Products

This course is designed to expand the technician's understanding of the fundamentals, use, operation, service and troubleshooting of the CPG Integrated Generator Set Control. The course concentrates on generator sets using Newage and CPG generators, voltage regulators, Barber-Coleman Electronic Governors and Onan Detector-12 Control. Class will be a combination of class room and hands-on training and troubleshooting. Technicians will learn to use electrical schematics and manuals to troubleshoot, configure, adjust, and repair generator sets.

**Prerequisite:** Fundamentals of Standby Equipment and the other CORE requirements.

**5 days                      \$1,375**

### 12. PowerCommand Control 3200 Qualification (2000-19Q)

This course is designed to introduce technicians to the PowerCommand Control 3200, including G-drive engines. The technicians will learn where the generator set control hardware is located and the function of each module in the control. This course also includes an introduction to the complete sequence of operation of all of the modes in the PCC 3200 operating systems. The class will expand your knowledge of the InPower software, including practice in programming and calibrating the control, and the breakout tool needed for the Dominion family of controls. The course will also include the paralleling parameter adjustments for both isolated and infinite bus paralleling systems.

**Students must bring their laptops with InPower software pre-loaded to class each day.**

**Prerequisites:** Fundamentals of Standby Equipment and the other CORE requirements.

**3 days                      \$825**

### 13. RS Genset Dealer Qualification (2009-23Q) & (2009-20Q)

This 5 day course is designed primarily for the Residential Standby dealer to achieve Full Service qualification. This qualification will include both the air cooled and liquid cooled product-line. Both of the product lines, PCC 1301 and RSS Transfer switch familiarization will also be included. We will focus on electrical safety, basic installation, theory of operation and troubleshooting techniques. Electrical schematics and repair procedures will also be addressed. In order to become qualified the technician must complete all 12 PGU courses and pass the written and hands-on assessments as part of this qualification path.

**Prerequisites:** Successful completion of twelve computer based training courses on Power Gen University

CST 0586 Basic Mechanical	CMT 0134 Electrical Safety	CMT6099 RSS Familiarization
CST 6007 Advanced Electrical	CMT 0135 Electrical Safety test	CST 6097 Fuel System Fam.
CMT 0116 Fundamentals of PG	CST 6032 RS Air Cooled	CST 6098 Alternator Fam.
CMT 0117 Fundamentals test	CST 6029 InPower Onan	CMT 6103 PCC 1.1 Fam.

**5 days                      \$1,375**

#### 14. RS Air Cooled Genset Qualification (2009-23Q)

This GSAA model home standby (NG/LPG 10.5/12 kW) system comes complete with the generator, transfer switch and controls with web-based communication capability. This course focuses on electrical safety, basic installation, theory of operation, preventive maintenance, troubleshooting techniques using electrical schematics and repair procedures. Theory and hands-on skills qualification is also included.

**Prerequisites:** Successful completion of nine computer based training courses on Power Gen University

CST 0586 Basic Mechanical	CMT 0117 Fundamentals test	CST 6032 RS Air Cooled
CST 6007 Advanced Electrical	CMT 0134 Electrical Safety	CST 6029 InPower Onan
CMT 0116 Fundamentals of PG	CMT 0135 Electrical Safety test	CMT 6099 RSS Fam.

**2.5 days \$675**

#### 15. RV Gas Skills Qualification (2007-08Q)

This class is the final requirement in order for a technician, and the repair location, to become Full Service Qualified for RV Gas Generators. This fast paced diagnostics class will include troubleshooting, schematic reading, load testing and component replacement on current model gensets. Students will have a chance to use all the latest test equipment. Current production model gensets used in the class will include: MicroLite, Microquiet, HGJAX, Marquis, and Equinox.

**Prerequisites:** Successful completion of eight computer based training courses on Power Gen University

CST 0584 Basic Electrical	CST 0685 RV QG (Single Cylinder)
CST 0585 Basic Power Generation	CST 0673 RV QG (Two Cylinder)
CST 0586 Basic Mechanical	CST 0122 Inverter/Charger
CST 0587 RV Installation	CST 6029 InPower Onan

**2 days \$550**

#### 16. RV Diesel Skills Qualification (2007-10Q)

This class is the first of three hands-on classes offered for a technician, and the repair location, to become Full Service Qualified for all RV Diesel Generators. This fast paced diagnostics class will include troubleshooting, schematic reading, load testing and component replacement on current model gensets. Students will have a chance to use all the latest test equipment. Gensets used in the class will include Isuzu and Kubota powered Quiet Diesel Generators.

**Prerequisites:** Successful completion of seven computer based training courses on Power Gen University

CST 0584 Basic Electrical	CST 0587 RV Installation	CST 6029 InPower Onan
CST 0585 Basic Power Generation	CST 0122 Inverter/Charger	
CST 0586 Basic Mechanical	CST 0671 Quiet Diesel	

**2 days \$550**

#### 17. Hybrid Quiet Diesel Qualification (2009-28Q)

This qualification class covers all three models of the HQD family: 810, 1215 and 1218. These exciting new RV packages include a power unit, either one or two inverter/chargers and a transfer switch. Lessons include: modes of operation, maintenance, troubleshooting and InPower Onan familiarization. Hands-on skills qualification is included.

**Prerequisites:** Successful completion of RV Diesels Skills Qualification plus the PGU course CST 6018 RV HQD.

**4.5 days \$1,225**

#### 18. 3.2 QD (Quiet Diesel) Qualification (2009-26Q)

This small RV diesel model is designed for the new Winnebago class C Sprinter chassis motor home. This QD model uses a permanent magnet alternator with a 120 VAC inverter. Theory and hand-on skills qualification is included. This course is part of the RV Diesel Skills qualification path.

**Prerequisites:** Successful completion of RV Diesels Skills Qualification plus the PGU course CST 6030 RV 3200 QD.

**1 day \$275**

### 19. Hydraulic / PTO Consumer Qualification (2007-23Q)

This class will familiarize the technicians with the Commercial Mobile Hydraulic Generator operation and PTO pumps. The Eaton and Saur Danfoss pumps will both be covered. Other topics include electrical / hydraulic safety, basic installation, theory of operation, maintenance, troubleshooting and service. Theory and hands-on skills qualification is included.

**Prerequisites:** Successful completion of seven computer based training courses on Power Gen University

CST 584 Basic Electrical      CST 6007 Advanced Electrical      CST 6025 Commercial Protec PTO

CST 595 Basic Power Gen      CST 6022 Commercial Basic Install

CST 586 Basic Mechanical      CST 6024 Commercial HG

**2 days      \$550**

### 20. Marine Genset Qualification for Gas and Diesel (2007-12Q & 2007-14Q)

This qualification class includes familiarization of the entire current production Marine Genset product line for both gas and diesel. Live training modules will be utilized to enhance the course. The course focuses on safety, basic installation, theory of operation, maintenance and troubleshooting techniques as applied to the Marine belt driven gas units (MGK), Diesel (MDK) Marine direct drive (MDD & MDK).

**Prerequisites:** Successful completion of eleven computer based training courses on Power Gen University

CST 584 Basic Electrical      CST 6001 Basic Marine Install      CST 6016 Direct Drive Diesel (MDK)

CST 585 Basic Power Gen      CST 6020 Commercial Basic Install      CST 949 Direct Drive Diesel (MDD)

CST 586 Basic Mechanical      CST 6002 Belt Drive Gas (MGK)      CST 6029 InPower Onan

CST 6007 Advanced Electrical      CST 6003 Belt Drive Diesel (MDK)

**3 days      \$825**

### 21. 20kw Commercial Mobile Genset Qualification (2009-42Q)

This 1 day qualification course will familiarize and qualify the technician on the new HDKAW 20kw Commercial Mobile genset. Students will be working with a live training module including Engine, Alternator and Control systems familiarization. As normal we also include safety, basic installation, theory of operation, maintenance and troubleshooting techniques as applied to this new model.

**Prerequisites:** Successful completion of eleven computer based training courses on Power Gen University

CST 584 Basic Electrical      CST 6022 Commercial Basic Installation

CST 585 Basic Power Gen      CST 6111 Commercial Mobile 20kw CMSD

CST 586 Basic Mechanical      CST 6029 InPower Onan

CST 6007 Advanced Electrical

**1 day      \$275**

# 2010 SCHEDULE

## Charlotte Training Center

3700 Jeff Adams Drive  
Charlotte, NC 28206  
704/596-7690 Fax: 704/596-3038

### January

### February

16-17

RV Gas Skills qual.

18-19

RV Diesel Skills qual.

### March

2-4

Marine Genset Skills qual.

16-17

Hydraulic / PTO Consumer qual.

18

3.2 Quiet Diesel qual.

### April

5-9

RS Liquid Cooled qual.

13

20kw Comm. Mobile qual.

15

20kw Comm. Mobile qual.

### May

18-19

NSPS

20-21

NSPS

### June

15-17

RS Air Cooled qual.

### July

19-23

RS Liquid Cooled qual.

### August

### September

### October

4-8

Hybrid Quiet Diesel qual.

### November

9-10

NSPS

30-12/1

RV Gas Skills qual.

### December

2-3

RV Diesel Skills qual.

# Motel Information

Lodging, meals and transportation are the responsibility of the student. The following motels are offering a discount to our students. When making reservations and during check in, it is necessary to tell them you are attending the Cummins Atlantic LLC Training Class to receive the student discount. Prior authorization for direct billing required.

## 1. Sleep Inn

8525 North Tryon Street  
Charlotte, NC 28262  
\$59.95 per night \*ask for Cummins rate\*  
Free hot breakfast buffet  
In room microwaves, refrigerators, coffee makers and iron.  
Free Access to Peak Fitness  
Free wireless internet & business center  
Walking distance to shopping, dining and entertainment  
Phone: 704-549-4544

## 3. Candlewood Suites

8812 University East Drive (Harris blvd, east of Old Concord Rd)  
Charlotte, NC 28213  
\$49.99 + tax/ night for studio suite \*ask for Cummins rate\*  
Enjoy a spacious suite that includes a full kitchen, DVD/VCR combo, & Free high speed internet. Complimentary features include: laundry facility, fitness center, Local calls, Movies, & CD's. Help yourself to snacks at the Candlewood Cupboard, our honor system grocery store.  
Phone: 704-598-9863

## 2. Drury Inn & Suites

415 West W.T. Harris Blvd.  
Charlotte, NC 28262  
\$62.00/Night \*ask for Cummins rate\*  
Free full, hot breakfast buffet  
Free evening beverages & hot appetizers each evening  
Free wireless internet, Free long distance,  
Fitness Center, Indoor/outdoor pool  
Microwave and refrigerator in every room  
Walking distance to several local restaurants  
Phone: 704-593-0700

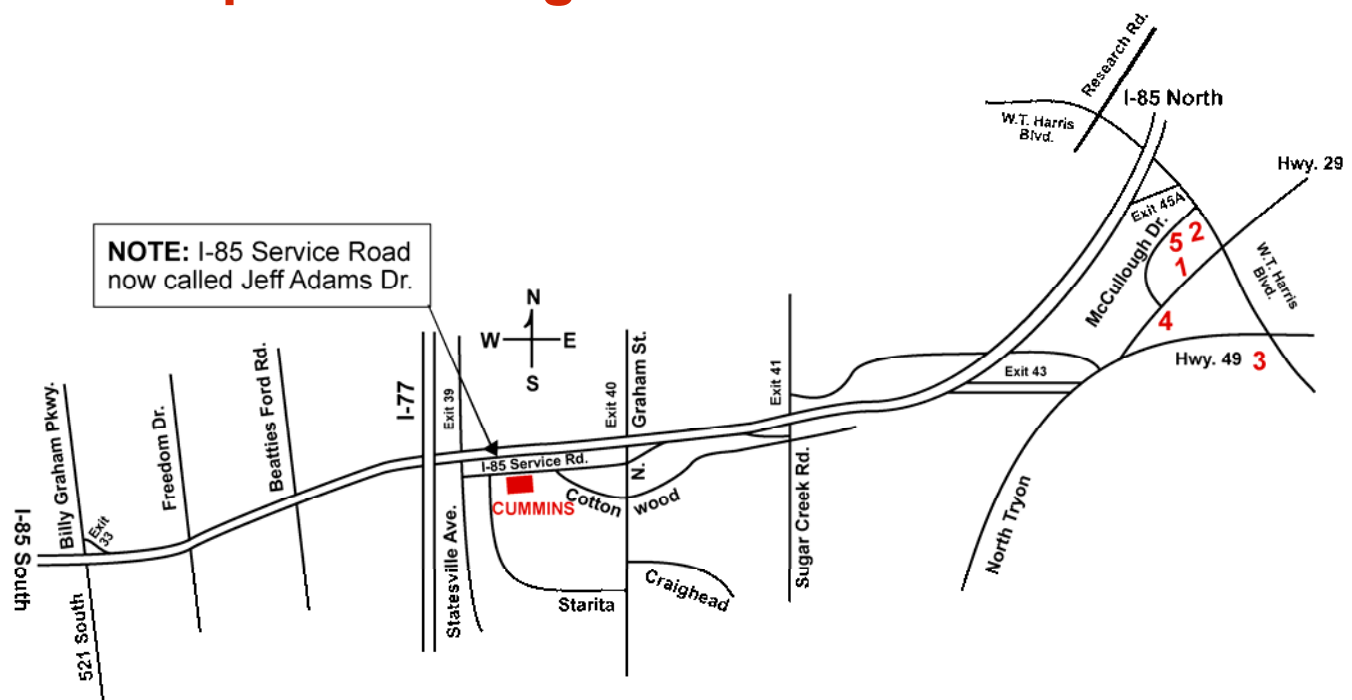
## 4. Comfort Suites

7735 University City Blvd.  
Charlotte, NC 28213  
\$59.95 per night \*ask for Cummins rate\*  
All suites with microwaves, compact fridge, coffee maker & wet bar. Guest laundry. Free wireless HSA. Free full, hot, breakfast buffet daily. Free business center, local and toll free calls. Free fitness center, Gym membership & seasonal pool.  
Toll free: 1/877-547-0049 local: 704/547-0049

## 5. Holiday Inn University Executive Park

8520 University Executive Park Drive  
Charlotte, NC 28262  
\$59.00 per night, plus tax, including our full hot breakfast buffet.  
\*Ask for Cummins rate\* Full service restaurant, gaming area, and lounge featuring breakfast, dinner, and room service.  
Weekly manager's reception with complimentary cocktails and appetizers. Complimentary wireless internet, 24 hour business center, 24 hour fitness center, complimentary access to off-site fitness facility, and seasonal outdoor pool.  
In room refrigerators, microwaves, coffee makers, and irons.  
Walking distance to shopping, dining, and entertainment.  
Phone: 704-547-0999

# Map of Training Center and Motel Locations



# REQUEST FOR ENROLLMENT

This completed form is to be forwarded to the TRAINING DEPARTMENT.

Name of Student \_\_\_\_\_ Business Phone ( ) \_\_\_\_\_  
Company \_\_\_\_\_ City \_\_\_\_\_  
Mailing Address \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Method of Payment: Check # \_\_\_\_\_ Company Purchase Order \_\_\_\_\_

Desired Class Name and Date

1st Choice # \_\_\_\_\_ Date \_\_\_\_\_

2nd Choice # \_\_\_\_\_ Date \_\_\_\_\_

3rd Choice # \_\_\_\_\_ Date \_\_\_\_\_

ENROLLMENT AUTHORIZATION

Name \_\_\_\_\_

## 2010 Curriculum

1. **Fundamentals of Standby Equipment**  
5 days \$1,375
2. **PowerCommand Control 1301**  
2 days \$550
3. **Automatic Transfer Switches Qual.**  
5 days \$1,375
4. **PowerCommand Control 3100 Qual.**  
2 days \$550
5. **Gaseous Fuels / NSPS**  
2 days \$550
6. **OTPC Transfer Switches / InPower**  
5 days \$1,375
7. **PowerCommand Control 2100 Qual.**  
2 days \$550

8. **PowerCommand Control 1.X Qual.**  
2 days \$550
9. **PowerCommand Control 2.X Qual.**  
3 days \$825
10. **PowerCommand Control 3.X Qual.**  
5 days \$1,375
11. **Large Commercial Products**  
5 days \$1,375
12. **PowerCommand Control 3200 Qual.**  
3 days \$825
13. **RS Genset Dealer Qual.**  
5 days \$1,375
14. **RS Air Cooled Genset Qual.**  
2.5 days \$675

15. **RV Gas Skills Qual.**  
2 days \$550
16. **RV Diesel Skills Qual.**  
2 days \$550
17. **Hybrid Quiet Diesel Qual.**  
4.5 days \$1,225
18. **3.2 QD (Quiet Diesel) Qual.**  
1 day \$275
19. **Hydraulic / PTO Qual.**  
2 days \$550
20. **Marine Genset Qual.**  
3 days \$825
21. **20kw Commercial Mobile Qual.**  
1 day \$275

Mail or Fax completed Enrollment Request to:  
Attn: Training Department  
Cummins Atlantic LLC.  
3700 Jeff Adams Drive  
Charlotte, NC 28206

Fax: 704-596-3038