

## **Railex, Inc.**

### ***Thirty-three Years of "On-Board" Experience in Train Operations***

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## **THE FIRM**

**Railex is a consulting firm providing comprehensive service in matters involving all aspects of train operations. The firm is dedicated to successfully supporting litigation counsel through investigation and providing necessary consultation and expertise.**

## **BIBLIOGRAPHY**

Present President of Railex, Inc.

2005 - 1994: President of Railex, Inc., Locomotive Engineer for Amtrak

1994 - 1972: Various positions with Norfolk Southern Railway: District Road Foreman of Engines and Division Road Foreman of Engines, Engineer, Conductor, Fireman, Brakeman

## **EXPERTISE / EXPERIENCE**

### **All aspects of train operations including:**

- Personal Injury, Crossing Accident and Derailment Investigation
- Determining root-cause of railroad accidents / incidents
- Analysis of Train Handling Recorder Device printouts from locomotives
- Knowledge of Federal Railroad Administration guidelines and requirements
- Operation of switches, derails, handbrakes and switching of rail equipment
- Train Handling: Speed control, proper handling of slack action
- Brake Usage including air brakes, dynamic brakes, engine brakes, and handbrakes
- Engineer Certification, Qualification and Training
- Training of railroad employees

## **SUPPORTING QUALIFICATIONS**

- Determined cause of over 1000 railroad accidents / incidents
- Appeared as a witness and given expert testimony concerning  
Train handling, operation of switches, operation of handbrakes, slack action, crossing and outsider incidents, rail equipment movement during switching and couplings, evaluation of railroad employees rule compliance while performing duties
- Qualified on Operating Rules for: Norfolk Southern, CSX, NORAC and the General Code
- Currently a Certified Class I Locomotive Engineer  
Have operated freight trains, locals, passenger trains and yard engines
- Class Room and On Board Instructor from 1997 to 1998 during Amtrak's implementation of direct release air brakes
- Supervised training and created start-up training programs for railroad employees  
Switchman/trainman, conductors, engineer trainees, engineers and railroad officers
- Helped implement the Federal Railroad Administration's Engineer Certification on the N.S. Railway
- Co-authored the rules manual "Voice Block Authority," the predecessor to "Track Warrant Authority" being used today as a means to establish train trackage right and authority to use a segment of main line
- Authored article for "Trains Magazine" focusing on railroad crew rest habits and cycles

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### **PROFESSIONAL PRESENTATION OPPORTUNITIES / SKILLS**

- 2006, 2004 & 2000: National Association of Railroad Safety Consultants and Investigators
- 2000: Selected to give a presentation at the Sixth International Symposium on Railroad-Highway Grade Crossing Research and Safety
- Various Dates: Charlotte Chapter of the National Railroad Historical Society
- Various Dates: Conover Rotary Club and Mt. Mitchell United Methodist Men's Group
- Past Operation Lifesaver Class 1 Presenter

### **AWARDS / MEMBERSHIPS**

- Recipient of Amtrak's Engine Service Excellence Award
- Recipient of Norfolk Southern's Special Performance Award (Reduction of personal injuries on division)
- Past Member of National Transportation Safety Task Force
- Member of National Association of Railroad Safety Consultants and Investigators (NARSCI) and was in attendance to proceedings in 1996, 1997, 1999, 2000, 2001, 2002, 2004 and 2006
- Committee Member of the American National Standards Institute, Committee A10.36
- Member of the Air Brake Association

### **WORK HISTORY**

- Railex, Inc.: Present - 1994, President
- Amtrak: 2005 - 1994, Locomotive Engineer
- Norfolk Southern Railway: 1994 - Nov. 1993, Locomotive Engineer
- Norfolk Southern Railway: 1993 - 1990, Division Road Foreman of Engines, Georgia Division
- Norfolk Southern Railway: 1990 - 1987, Division Road Foreman of Engines, Coastal Division
- Norfolk Southern Railway: 1987 - 1985, District Road Foreman of Engines, Coastal Division (Southwest District)
- Norfolk Southern Railway: 1985 - 1984, District Road Foreman of Engines, Coastal Division (GS&F District)
- Southern Railway/NS Railway: 1984 - 1974, Locomotive Engineer, Spencer, NC (name change following Southern Railway and Norfolk Western Railway merger)
- Southern Railway: 1974 - 1972, Train Service/Conductor

### **EDUCATION**

- Present - 1972 Ongoing required and elective training in excess of 2475 hours
- Areas studied include: Train handling and operations / management / training / crew development / operating rules / safety / analysis / problem solving / mechanical / certification / life saving / constructive writing / ethics / etc.
- Earned a diploma from the Railway Educational Bureau after completing over 50 lessons in assorted railroad subject matter
- Comprehensive Knowledge, Education and Skills Portfolio available upon request