



Resume & Experience

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Florida Wastewater Operator's Certification #0002374 "A"

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Qualifications & Experience Summary

As an operator, trainer and O&M consultant since 1972, Roy has developed several O&M manuals, standard operational procedures and O&M performance reports; conducted multiple operations and maintenance training programs at several water and wastewater facilities; provided plant troubleshooting assistance programs; provided technical advisory services; developed, coordinated and implemented several maintenance management systems; coordinated and implemented several facility start-up assistance programs; and provided other specialized technical services. As a certified wastewater operator in Florida, and four other states, Roy has provided assistance and coordination with the start-up of more than 12 water and wastewater treatment facilities, and has provided over 2,500 hours of training to over 3,000 operators in the states of Florida, Maine, Rhode Island, Massachusetts, Kentucky, New Jersey, Louisiana, Arizona, Indiana, Georgia, Washington, D.C., New York and Puerto Rico.

Biological Nutrient Removal (BNR) Experience

Roy has acquired extensive experience in the Operations and Management of various types of BNR processes ... from conventional systems modified to remove nutrients to full-scale 5-stage Bardenpho systems. In 1982, as an O&M Specialist with CDM, Roy was principally involved with the training, start-up and optimization of the Orange County Eastern 5-stage Bardenpho facility.

As the Assistant Division Manager for the City of Orlando, Roy was principally involved in the implementation of various full-scale demonstration projects, including decommissioning of the 24 mgd RBC process at the Iron Bridge Regional Water Reclamation Facility and rerating of the facility's Bardenpho system from 24 mgd to 40 mgd.

Roy has provided training, start-up assistance, evaluation and troubleshooting assistance and O&M Manual development services at eight (8) various oxidation ditch-type activated sludge facilities, mainly in Florida, over the past 35 years.

Employment History

2012 to Present
City of Orlando, Florida
Wastewater Consultant

Developing and implementing operator training programs, facility evaluations, troubleshooting and optimization assistance for the City's water reclamation facilities.

2006 to 2012

City of Orlando, Florida

Wastewater Consultant

Team member in the design and operation of a Supercritical Water Oxidation process for the City's Iron Bridge Regional Water Reclamation Facility. Developed an O&M Manual and Training Program ... in a web-based format.

1999 to 2006

City of Orlando, Florida

Assistant Division Manager

Oversee the Operations, Maintenance and Management of the City's Water Reclamation Facilities and Lift Stations.

1994 to 1999

City of Orlando, Florida

Special Projects Manager

Responsible for developing and implementing operator training programs, facility evaluations, troubleshooting and optimization assistance for the City's water reclamation facilities.

2003 to Present

www.royceu.com

Owner

Developed and maintain a website to provide CEU-approved training courses to water and wastewater operators in Florida. Provided over 6,500 Approved Continuing Education Courses to Certified Operators since 2003.

1994 to Present

Pelletier O&M Services

Owner

Provide various O&M services for wastewater treatment facilities, either directly to municipalities or as a sub-contractor to various professional companies in the water and wastewater industry.

1994 to 1994

N-Viro International, Inc.

Technical Operations Manager

Provided specialty services with N-Viro International's Technical Services Group regarding facility evaluations, cost estimations, pilot studies, and operational assistance of various alkaline stabilization facilities.

1992 to 1994

City of Orlando, Florida

Special Projects Manager

Responsible for developing environmental safety programs, operator training programs, facility evaluation and troubleshooting assistance, and to provide advice and consult for the staff at the City's water reclamation facilities.

1989 to 1992

Bonnie Pelletier Services, Inc.

President

Owner of private company responsible for business development, including project development and implementation of operator training programs, startup and troubleshooting assistance, optimization programs, development of operational procedures and records, and specialized O&M consultation and technical advice. Also responsible for proposal development, client services, contract negotiations, and project budgets.

1989 to 1989

Metcalf & Eddy Services, Inc.

Senior Project Manager

Responsible for developing O&M manuals and training programs, developing Standard Operating Procedures (SOP's) and to assist company wide O&M services group with technical support.

1979 to 1989

Camp Dresser & McKee, Inc.

O&M Specialist, Principal O&M Services Manager

Responsible for the development, coordination and management of a 5-person O&M group. Duties included overseeing various O&M projects, providing client services and coordinating O&M business development. Conducted numerous tasks and projects as an O&M Specialist.

1975 to 1979

City of Fort Lauderdale, Florida

Operator/Shift Supervisor/Chief Operator

Conducted operator and shift supervisor duties at several of the City's water reclamation facilities. As a chief operator, responsibilities included bringing on-line a 22 mgd pure-oxygen activated sludge facility with 55 tpd cryogenic oxygen generation facility.

1974 to 1975

City of Dania, Florida

Operator

Operation of 1.0 mgd Spiro Vortex activated sludge facility with super-rate trickling filter. Responsibilities included performing laboratory analyses and preventive maintenance of pumping stations and collection system lines.

1972 to 1974

Mattabassett Water Pollution Control District

Cromwell, Connecticut

Operator Trainee

Operation of a 30 mgd physical/chemical treatment plant with vacuum filters and multiple-hearth incinerator.

Summer 1969

Mattabassett Water Pollution Control District

Laborer

Principal duty at age 16 was to shovel dewatered sludge into a dump truck while the multiple hearth incinerator was down for maintenance during the summer.

Education

Course Work in Business Management, Watterson College, Louisville, Kentucky, 1981

Supervisory Management, Michigan State, 1977

Math and Chemistry, University of Florida, 1974-1975

Short Schools (too numerous to count)

Conferences, Workshops & Seminars (too numerous to count)

Wastewater Certification

- Florida Class A (Active)
 - Massachusetts Grade 6
 - Maine Grade V
 - Indiana Class IV
 - Kentucky Class IV
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Technical Publications & Presentations

1990: Microbiology for Operators:

- Florida Water Resources Journal
- Florida Water Resources Conference

1991: Algae and Clarifier Weirs - Florida Water Resources Journal

1992: Bloodborne Pathogens ... What's It All About (four-part series) - WEF Operations Forum

1993: The Making of a Safety Manager - WEF Operations Forum

1993: Confined Space Entry (four-part series) - WEF Operations Forum

1994: Respiratory Protection (five-part series) - WEF Operations Forum

1994: Lockout/Tagout Safety - WEF Operations Forum

1994: Teamwork & Communication - WEF Operations Forum

1995: Biological Nutrient Removal - Florida Water Resources Journal

1995: Effluent Disinfection ... The Orlando Program - WEFTEC - Miami, Florida

1999: Orlando Eagle Eye Automated Chlorination Control System:

- Florida Water Resources Conference
- WEFTEC - New Orleans, LA
- 2000 Disinfection Conference – New Orleans, LA
- FWEA Quarterly Meeting – Orlando, FL
- Florida Water Resources Journal

2000: To Lime or not to Lime ... That is the Question

- Florida Water Resources Conference - 2000
- WEFTEC 2000 - Anaheim, CA
- Florida Water Resources Journal
- WEF Operations Forum

2000: Aeration Profile Comparisons - Florida Water Resources Conference

2001: To Aerate or not to Aerate ... That is the Question - WEF Operations Forum

2001: The Iron Bridge Pilot Project:

- WEFTEC – Atlanta, GA
- FES Quarterly Meeting – Orlando, FL – 2002

2003: The Iron Bridge Bardenpho System ... A Great Process Made Better

- WEFTEC – Chicago, IL
- FWRC 2003 - Tampa, FL

2003: My On-Line Experience "Reality Show" - FWEA Conference - Orlando, FL

2004: Internal Recycle ... A Side By Side Comparison for Total Nitrogen Removal

- WEFTEC - New Orleans, LA

2004 Florida Industrial Pre-Treatment Association - Orlando, FL

2007 Florida Industrial Pre-Treatment Association - Sarasota, FL

Awards & Recognitions

- 1991 FWRJ – Best Article Written by an Operator
- 1992 Pat Flanagan Award

- 1992 Leroy Henry Scott Award
- 2000 WEF Quarter Century Operators Club Award
- 2000 FWEA Project & Professional Excellence Award
- 2001 WEF Philip F. Morgan Medal
- 2002 FWEA William E. Hatfield Award
- 2003 Florida Select Society of Sanitary Sludge Shovelers
- 1982 to 2004 FW&PCOA Short School Training Awards

Memberships

- Florida Water & Pollution Control Operator's Association (FW&PCOA)
- American Public Works Association (APWA)
- Florida Water Environmental Association (FWEA)
- Water Environment Federation (WEF)

History of O&M Project Experience

Locations, Projects & Experience

City of Tampa, Florida

Assisted with training and start-up of 100 mgd water treatment facility expansion.

City of Lakeland, Florida

Developed and presented training program for 51 mgd split lime softening water treatment facility and distribution system. Provided start-up and troubleshooting assistance and developed O&M manual.

City of St. Petersburg, Florida

Performed evaluation of 4 wastewater treatment facilities and developed status reports.

Orange County, Florida

Performed evaluations of several wastewater plants and developed reports of findings and observations. Developed and coordinated development of several O&M programs, including O&M training, O&M manuals, and start-up/operational assistance for the following wastewater facilities:

Eastern Service Area I & II	6 mgd
Eastern Service Area III	6 mgd
Sand Lake Road I & II	23 mgd
Northwest Service Area I	3 mgd

City of Lake Mary, Florida

Developed and presented training program, O&M manual, and start-up assistance for 5 mgd water treatment facility and distribution system.

Indian River County, Florida

Evaluated 2 wastewater treatment facilities and developed report identifying present conditions and future needs.

City of Cocoa, Florida

Developed and coordinated development of O&M manual, training program and start-up assistance of 4.5 mgd biological nutrient removal wastewater treatment facility.

City of Boca Raton, Florida

Coordinated completion of O&M manual for 60 mgd lime softening water treatment facility expansion. Evaluated 12 mgd wastewater treatment facility and developed O&M report for input to design expansion report. Provided training and start-up assistance, and coordinated development of O&M manual and presented training for 20 mgd wastewater treatment facility expansion.

Broward County, Florida

Coordinated development of O&M manual and operational assistance for 66 mgd wastewater treatment facility expansion.

City of Naples, Florida

Coordinated development of O&M manual for 8.5 mgd wastewater treatment facility expansion.

City of Plantation, Florida

Provided training and start-up assistance for 10 mgd wastewater treatment facility. Coordinated development of O&M manual.

Manatee County, Florida

Coordinated development of O&M manuals for 2 wastewater treatment facilities.

University of Florida

Evaluated wastewater treatment facility and developed safety report of conditions and recommendations.

Winter Garden, Florida

Provided temporary plant manager services for 50 mgd reclaimed water distribution facility. This project receives water from the City of Orlando and Orange County, and provides the reclaimed water to citrus grove owners for irrigation of several thousand acres of citrus crops.

Loxahatchee River Environmental Control District – Jupiter, Florida

Developed and presented training program for belt filter press dewatering system.

West Melbourne, Florida

Evaluated 1.2 mgd wastewater treatment plant and collection system and developed report of observations and recommendations (for Metcalf & Eddy Services, Inc.).

N-Viro Soil South - Coral Springs, Florida

Provided representation at technical conferences. Developed training guide on N-Viro process for the Loxahatchee River Environmental Control District.

Orange County, Florida

Developed operator duty logs, daily and monthly data sheets, equipment status boards, performance and productivity program for operators, and process control program for 23 mgd South Water Reclamation Facility.

City of Orlando, Florida

Provided continuing O&M consultation for the City's wastewater treatment Bureau of Wastewater.

City of Fernandina Beach, Florida

Developed and implemented a training and start-up assistance program for 1.75 mgd advanced activated sludge plant, including new preliminary treatment structure and sludge dewatering facility.

City of Wauchula, Florida

Developed and implemented a training and start-up assistance program for 1.0 mgd oxidation ditch activated sludge plant. Also, developed a training manual, preventive maintenance program and a complete

set of operational log sheets. Provided continuing O&M consultation for the City's wastewater treatment division.

Portland, Maine

Assisted with start-up of 15 mgd activated sludge treatment facility.

New Bedford, Massachusetts

Participated in activated sludge treatability study, including operation of bench-scale pilot plant, 2 gpm pilot plant, and evaluation of existing 30 mgd facility.

Charles River, Massachusetts

Assisted with training and start-up of 3.0 mgd activated sludge treatment facility.

Louisville, Kentucky

Developed lesson plans and presented 18 month training program for 105 mgd oxygen activated sludge facility. Provided technical assistance to design team associated with cryogenic oxygen generation.

PVSC New Jersey

Assisted with training and start-up of 300 mgd oxygen activated sludge facility. Coordinated development of SOJP manuals.

Douglasville, Georgia

Evaluated 1.0 mgd oxidation ditch facility and developed and presented training program manual.

Pima County, Tucson, Arizona

Evaluated secondary treatment facility with PSA oxygen generation. Developed O&M manuals for secondary treatment and support systems, including PSA oxygen generation, pure oxygen activated sludge process, power generation and energy recovery facilities, and other process areas.

Gwinnett County, Georgia

Evaluated 6.0 mgd wastewater treatment facility and developed O&M report to assist design team.

Frederick Winchester, Virginia

Developed training document identifying transitional procedures associated with nitrification and BOD-only operational seasons.

Lexington, Kentucky

Evaluated 24 mgd single stage nitrification facility and developed operational alternatives to balance solids loading through multiple aeration basins.

Washington, D.C.

Assisted with development of Technical Information Center and Maintenance Management System. Developed and presented a nutrient removal training session to a group of Taiwanese operators and engineers. The session was presented with an interpreter for immediate understanding by the students.

San Juan, Puerto Rico

Developed standard operating procedures (SOP manual) for 4.28 mgd trickling filter plant.

Kings Bay, Georgia

Assisted with presentation of training and start-up program for industrial waste pretreatment facility at Kings Bay Naval Submarine Base.

Prairie Grove, Arkansas

Developed training lesson plans for activated sludge concepts, process control evaluations, operational and laboratory safety, anaerobic digestion, and NPDES reporting.

Middlesex County Utilities Authority - New Jersey

Assisted with the operations and performance testing of a rotary drum drying system for drying/volume reduction of pasteurized solids.

N-Viro International

Developed Corporate Safety & Health Manual.

Tarpon Springs, Florida

Assisted with optimization of the N-Viro solids processing facility. Developed shift operational log sheets.

City of Orlando, Florida

Developed O&M Performance Report for the Water Conserv II Reclamation Facility. This is a 25 mgd advanced secondary treatment plant Florida which practices partial biological nutrient removal in the aeration system. Also developed O&M Performance Reports for the Iron Bridge Regional Water Reclamation Facility, the Lake Nona Water Reclamation Facility, and the Water Conserv I Water Reclamation Facility. Provided operational assistance with the Biological Nutrient Removal systems at Water Conserv I and Water Conserv II Facilities. Developed Safety Programs for the Wastewater Bureau. Performed a preliminary evaluation of the operational status of Phase 2 and 3 Bardenpho systems at the Iron Bridge Facility. Provided training sessions on anaerobic digestion, DAF thickening, and Biological Nutrient Removal at the Water Conserv I Facility. Provided training sessions on the Belt Thickener System, the Anaerobic Digestion Process, and the Belt Filter Press System at Water Conserv II Facility. Developed an SOP and Training manual for the City's largest pumping station.

Cocoa Beach, Florida

Provided training and assisted with the start-up of the N-Viro system.

Orlando, Florida UCF

Evaluated wastewater treatment facility and developed report of findings, observations and recommendations. The report was geared toward optimizing Physical Plant the existing operations and alternatives for expanding the facility from 0.5 mgd to 1.25 mgd.

Webster Environmental Associates

Developed training program lesson plans for secondary treatment processes in Akron, Ohio. Provided O&M evaluation of Lagoon Treatment Process in Auburndale, Florida. Developed training program lesson plans for secondary treatment plant in Prairie Grove, Arkansas.

Donald W. McIntosh & Associates

Performed an evaluation and developed a report for a private Wastewater Treatment Plant in Leesburg, Florida. Developed an O&M Performance Report for the same Wastewater Treatment Facility.

History of Operator Training Sessions Presented**City of Tampa, Florida*****100 mgd Water Treatment Facility***

Training Topics Included: Basic Math, Low Service Pumping, High Service Pumping, Liquid Rheostat System, Electrical Switchgear, Gas Turbine Generator, and Facility Start-up.

City of Lakeland, Florida

51 mgd Lime Softening Water Treatment Facility

Training Topics Included: Basic Math, Water Wells, Lime Softening Clarifiers, Deep Bed Filters, Lime Slaking & Pumping, Polymer System, Polyphosphate System, Fluoride System, Chlorination System, High Service Pumping, Distribution System, Diesel Generator, and Facility Start-up.

Orange County, Florida

6 mgd Bardenpho AWT Facility

Training Topics Included: Screenings & Grit Removal, 5-Stage Bardenpho Activated Sludge Process, Clarification, Rapid Gravity Filtration with Automatic Backwash, Effluent Pumping, Rapid Infiltration Basins, Chlorination, Reuse Water System, Gravity/DAF Thickening, Belt Filter Press Dewatering, Polymer System, Alum System, Diesel Generator, and Facility Start-up.

Orange County, Florida

23 mgd Complete Mix Activated Sludge Process

Training Topics Included: Screenings & Grit Removal, Influent Pumping, Wet Scrubber & Carbon Adsorber Odor Control System, Fine Bubble Diffusion Activated Sludge System with HCL Gas Cleaning System, Centrifugal Blowers, Clarification with Traveling Bridge RAS Collection, Dual-Media Rapid Gravity Filtration with Automatic Backwash, Effluent Pumping with Liquid Rheostat and Slip Loss Recovery, Reuse Water System, DAF Thickening, Anaerobic Digestion Process, Belt Filter Press Dewatering, and Facility Start-up

City of Lake Mary, Florida

5 mgd Water Treatment Facility and Distribution System

Training Topics Included: Water Wells, Ground Storage, Fluoride System, Chlorination System, High Service Pumping, Diesel Generator System, Distribution System, and Facility Start-up

City of Cocoa, Florida

4.5 mgd Bardenpho AWT Facility

Training Topics Included: Screenings & Grit Removal, 5-Stage Bardenpho Activated Sludge Process, Clarification, Reuse Water System, Chlorination, Dechlorination (with Sulfur Dioxide), DAF Thickening, Belt Filter Press Dewatering, and Facility Start-up

City of Boca Raton, Florida

20 mgd Activated Sludge Facility

Training Topics Included: Screenings & Grit Removal, Odor Control System, Partial Effluent Filtration for Reuse Water System, Chlorination, Rotary Drum Thickening, Anaerobic Digestion, Belt Filter Press Dewatering, and Facility Start-up

City of Plantation, Florida

10 mgd Activated Sludge Facility

Training Topics Included: Screenings & Grit Removal, Activated Sludge Process Control, Clarification, Chlorination, Effluent Pumping, Deep Well Injection, and Facility Start-up

Jupiter, Florida

6 mgd Oxygen Activated Sludge

Training Topics Included: Belt Filter Press Dewatering

Orange County, Florida

23 mgd Activated Sludge Facility

Training Topics Included: Record Keeping, Operator Performance and Productivity, Process Control, and Anaerobic Digestion

City of Fernandina Beach, Florida

1.75 mgd Activated Sludge Facility

Training Topics Included: Climber Screen, Pista Grit Removal, Activated Sludge with Anoxic System, Clarification and Scum Pumping, RAS Pumping, WAS Pumping, Chlorination, Aerobic Digestion, Sludge Bags Dewatering, Log Sheet Development, and Facility Start-Up

City of Orlando, Florida

25 mgd Activated Sludge Facility

Training Topics Included: Procedural Consistency for Shift Supervisors, Basic Terminology, Math and Activated Sludge for Operators

City of Wauchula, Florida

1.0 mgd Activated Sludge Facility

Training Topics Included: Influent Pumping, Teacup Grit Removal, Screenings Removal, Carrousel Activated Sludge, Clarification and Scum Pumping, RAS Pumping, WAS Pumping, Chlorination/Dechlorination, Reuse Water System, Alum System, Lime System, Aerobic Digestion with P.D. Blowers, Sludge Drying Beds, Electrical Distribution and, Emergency Diesel Generator, Instrumentation Systems, Laboratory Equipment, and Facility Start-Up

St. Petersburg, Gainesville, Orlando, Palm Beach Gardens, Florida

Training Sessions Included: Activated Sludge Process Control and Troubleshooting

Orlando, Florida

Training Sessions Included: Activated Sludge Process and Anaerobic Digestion Process

Gainesville, Titusville, Fort Myers, Fort Pierce, Plant City, Florida

Annual Short Schools (1982 - 2004):

Training Sessions Included: Preliminary and Primary Processes, Secondary Processes, Activated Sludge Process, Control and Troubleshooting, Microbiology and Oxygen Uptake, Pumping Applications, Biological Nutrient Removal, Sludge Thickening Systems, Aerobic Digestion, Anaerobic Digestion, Alkaline Stabilization, Effluent Filtration, and Effluent Disposal and Reuse

Manatee County, Florida

Regional Short Schools

Training Sessions Included: Career Development, Energy Conservation, Test Taking Tips, and Sludge Dewatering.

Orange County, Florida

Regional Short Schools (1982 to 2001)

Training Sessions Included: Career Development, Advanced Wastewater Treatment, Microbiology, Sludge Digestion, Overview of Activated Sludge, Biological Nutrient Removal, Activated Sludge Troubleshooting, Chlorination Practices, Polymer & Alum Systems, and Safety Awareness

Lake Wales, Florida

Regional Short Schools

Training Sessions Included: Microbiology, Advanced Wastewater Treatment, Activated Sludge Troubleshooting, and Package Plant Operation

Cocoa, Florida

Regional Short Schools

Training Sessions Included: Bardenpho Activated Sludge, Activated Sludge Process Control, Microbiology, Basic Activated Sludge

West Palm Beach, Florida

Annual Short Schools

Training Sessions Included: Activated Sludge Troubleshooting, Biological Nutrient Removal, Microbiology, and Sludge Digestion

Jacksonville, Florida Regional Short School

Training Session Included: Bardenpho Activated Sludge

Jacksonville, Florida

Developed and Presented Paper on Microbiology for Operators

New Bedford, Massachusetts

30 mgd Primary Treatment Plant

Training Sessions Included: 2 gpm Activated Sludge Pilot Plant and 30 mgd Facility Evaluation

Barrington, Rhode Island

Training Session Included: Collection System Safety Awareness

Charles River, Massachusetts

3 mgd Activated Sludge Facility

Training Sessions Included: Rapid Gravity Filtration with Automatic Backwash, Chlorination and Plant-Wide Support Systems

Louisville, Kentucky

105 mgd Oxygen Activated Sludge Facility

Training Sessions Included: Screenings & Grit Removal, Primary Clarification, Oxygen Activated Sludge Reactors, Secondary Clarification, Chlorination, Effluent Pumping, DAF Thickening, Polymer System, Anaerobic Digestion, Zimpro Wet Air Oxidation, Vacuum Filters, and Cryogenic Oxygen Generation

PVSC, New Jersey

300 mgd Oxygen Activated Sludge Facility

Training Sessions Included: Cryogenic Oxygen Generation, and Facility Start-up

Douglasville, Georgia

1 mgd Oxidation Ditch Facility

Training Sessions Included: Activated Sludge Process Control, Clarifier Solids Loading Study, and Microbiology

Gary, Indiana

60 mgd Activated Sludge Facility

Training Sessions Included: DAF Thickening and Effluent Filtration

Washington, D.C.

Training Session Included: Biological Nutrient Removal for a Group of Taiwanese Operators and Engineers

Baton Rouge, Louisiana

Training Session Included: Activated Sludge Concepts and Process Control

San Juan, Puerto Rico

Training Session Included: Activated Sludge Concepts, Process Control Strategies, and Preparation to Take the Operator's Certification Exam