

RAYMOND W. KIRK

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“CAREER” OBJECTIVES

To continually bring my skills and experience to bear on new and diverse challenges in environmental management and stewardship. To return to my home waters, and to help return steelhead and salmon to them.

EDUCATION

- June 1985** **Master of Business Administration**
Oregon State University; Corvallis, Oregon
- June 1983** **Master of Science - Chemical Engineering**
(Integrated minor in Forest Products and Mechanical Engineering.) Thesis title: The Simulated and Measured Performance of Rotary Dryers Used to Dry Wood Waste Fuels Using Boiler Exhaust Gases.
Oregon State University; Corvallis, Oregon
- June 1978** **Bachelor of Science - Chemistry**
Honor Graduate
Oregon State University; Corvallis, Oregon

PROFESSIONAL LICENSES & CERTIFICATES

Engineer-in-Training, State of Oregon No. 5869

PROFESSIONAL AND ACADEMIC HONORS AND AWARDS

Spirit of Excellence Award, PacifiCorp, 1995
Performance Achievement (PAR) Award, PacifiCorp, 1988
Performance Achievement (PAR) Award, PacifiCorp, 1987
Phi Kappa Phi (Scholastic Honorary)
Phi Lambda Upsilon (Chemistry/ChE Scholastic Honorary)

ACTIVITIES, ORGANIZATIONS, AND MEMBERSHIPS

Air & Waste Management Association (AWMA)
Trout Unlimited
2018 WSU Extension Stream Steward Class

WORK EXPERIENCE**11/00 – 08/18 Environmental Supervisor**

Tri-State Generation & Transmission Association, Inc., Craig Station; Craig, Colorado
Together with up to five direct reports (Instrumentation & Control Technicians, Environmental Coordinators), responsible for ensuring multi-media (air, water, waste, etc.) environmental compliance at a 1350-MW coal-fired power plant. This included, but was not limited to:

- Providing counsel to plant management regarding existing and on-the-horizon environmental issues, including the current and projected compliance status of the plant,
- Managing capital projects, including pollution control projects and Yampa River restoration.
- Managing the collection and reduction of (air) emissions data as generated by Continuous Emissions Monitors (CEMS) and the generation of specific reports (State, Federal, and internal) of the plant's compliance status,
- Managing CEMS Quality Assurance/Quality Control (QA/QC) activities (periodic maintenance and testing, and employee training),
- Evaluating capital projects with respect to Prevention of Significant Deterioration (PSD) and New Source Review (NSR) impacts,
- Assisting with the development of Sierra Club Consent Decree provisions, and the implementation thereof,
- Managing the installation and certification of new emissions monitors, recertification of existing emissions monitors, and implementation of new monitoring, recordkeeping, and reporting procedures required by the Sierra Club Consent Decree,
- Designing, installing, and certifying sorbent trap-based Continuous Mercury Monitoring Systems (CMMS),
- Assisting with the preparation of Title V (air quality) Operating Permit Application, and negotiating Permit terms and provisions with the Colorado Air Pollution Control Division (APCD),
- Interfacing with representatives of the various divisions of the Colorado Department of Health and Environmental, and with representatives of Region 8 EPA,
- Assisting with the development and on-site implementation of corporate Environmental Management Systems,
- Managing hazardous waste and used oil activities (identification, collection, storage, disposal/recycling, employee training, and periodic reporting),
- Coordinating annual on-site Environmental, Health & Safety training for Station employees,
- Overseeing site Spill prevention, Containment and Countermeasure (SPCC) programs and Asbestos, PCB, and Stormwater management programs, and
- Interfacing with the plant's co-owners on environmental matters.

3/92 – 11/00 Environmental Engineer (Lead/Senior Engineer)

PacifiCorp, Hunter Power Plant; Castle Dale, Utah

Together with two direct reports (Environmental Technicians), responsible for ensuring multi-media (air, water, solid and hazardous waste, etc.) environmental compliance at a 1450-MW coal-fired power plant. This included, but was not limited to:

- Providing counsel to plant management regarding existing and on-the-horizon environmental issues, including the current and projected compliance status of the plant,
- Managing the collection and reduction of (air) emissions data as generated by Continuous Emissions Monitors (CEMS) and the generation of specific reports (State, Federal, and internal) of the plant's compliance status,
- Leading CEMS Quality Assurance/Quality Control (QA/QC) activities (periodic maintenance and testing, and employee training),
- Assisting with the preparation of Title V (air quality) Operating Permit Application, and negotiating Permit terms and provisions with the Utah Division of Air Quality,
- Managing site Title V Permit activities (employee training, periodic compliance inspections, proactive compliance management, periodic reporting),
- Continued on next page...

WORK EXPERIENCE, CONTINUED

- 3/92 – 11/00 **Environmental Engineer (Lead/Senior Engineer), Continued**
- Directing various environmental compliance-related capital projects, which has included coordinating the work of various consultants and contractors,
 - Managing the development of site Environmental Management Systems consistent with the ISO 14001 standards,
 - Interfacing *proactively* with representatives of the various divisions of the Utah Department of Environmental Quality, and with representatives of Region 8 EPA,
 - Managing hazardous waste and used oil activities (identification, collection, storage, disposal/recycling, employee training, and periodic reporting),
 - Conducting annual on-site Environmental training for Plant employees,
 - Managing site Spill prevention, Containment and Countermeasure (SPCC) programs, and overseeing Asbestos, PCB, and Stormwater management programs, and
 - Interfacing with the public and the plant's co-owners on environmental matters.
- 3/90 - 2/92 **Technical Sales Support Administrator**
PacifiCorp dba Pacific Power & Light, WIM Region; Yakima, Washington
Ensured that industrial and commercial sales representatives received technical and team sales support either by providing it or by coordinating the efforts of selected consultants. Assisted in the development of Region and individual sales and account plans. Coordinated the sales activities associated with the Region's major sales projects. Administered sales project tracking and provided other analytical support to Region sales staff and field management.
- 12/87 - 2/90 **Technical Sales Support Specialist**
7/86 - 12/87 **Commercial/Industrial Sales Specialist**
PacifiCorp dba Pacific Power & Light, WIM Region; Yakima, Washington
Same basic responsibilities as the position described above but of lesser scope and grade.
- 7/85 - 6/86 **Research Assistant**
Forest Research Laboratory, Oregon State University, Corvallis, Oregon
Assisted with the development, execution, and administration of various *applied* research projects, including the application of dehumidification and radio-frequency technology to the drying of lumber and veneer.
- 10/81 - 6/83 **Graduate Research Assistant**
Forest Research Laboratory, Oregon State University, Corvallis, Oregon
Examined the potential benefits of attaching a rotary dryer to a wood waste-fired boiler to dry fuel using boiler exhaust gases. Research involved the engineering analysis (including in-plant measurements of physical parameters of process streams), computer simulation (FORTRAN), and economic evaluation of three existing wood boiler/rotary dryer systems. Results of research were published in the Forest Products Journal.
- Summers
1972 - 1981 **Farm Laborer/Manager**
Steven Eyman Farms; Canby, Oregon
Responsibilities included: (1) operating, maintaining and repairing farm machinery and structures, (2) assisting with the scheduling of the planting, harvesting, and rotation of crops, and, (3) acting as manager of the operation in the absence of my employer.