

Frank Andrew Dick, P.E.

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Chemical Engineer – Trained and experienced in municipal wastewater, sewer and water engineering management; and facilities operations and maintenance in semiconductor industry. Strong knowledge of industrial and municipal facilities processes, environmental regulations and compliance programs.

Professional Engineer (P.E.) – Chemical Engineering, 1997. Oregon Registration No. 19166PE (idle). Washington License No. 40113.

WORK HISTORY

Wastewater Engineering Supervisor – (2014 – present) – City of Vancouver, WA

- Supervision of engineer, scientist, technician and educator staff.
- Administration of long-term contract for wastewater treatment plant operations and maintenance. Primary contact with O&M project manager for Vancouver.
- Short term and long range planning for capital improvement projects, engineering studies and education program advancements.
- Engage regulatory agency contacts for wastewater and air permits, state and federal level environmental initiatives directly and indirectly affecting wastewater treatment plant operations.

Wastewater Engineer / Pretreatment Coordinator – (2006 – 2014) – City of Vancouver, WA

- Administration and oversight of all functions of fully delegated Industrial Pretreatment Program (IPP).
- Provided oversight and design of updated IPP that included new sewer use ordinance and program documents consistent with EPA Streamlining Rules. Presented to City Council for adoption.
- Planned and managed energy efficiency-related capital projects for wastewater operations.
- Engineering oversight of capital preservation projects, including equipment replacement, protective coatings for equipment, building restoration and process optimization.

EHS Consultant – (2004 –2006) – EORM, Inc. and ERM, Inc. Portland, OR

- Environmental engineering support and environmental advisory services to industrial clients, many in Clark County.
- Prepared, reviewed and certified spill control and other environmental plans.
- Prepared and administered industrial (semiconductor) facility closure plan.
- Environmental program assessments for large industrial and retailer facilities.

Independent Contract Engineer – (2003 –2004) – Self-employed. (Part-time)

- Prepared, reviewed and certified spill control plans for industrial clients.
- Prepare environmental permit applications and wastewater treatment system engineering reports for industrial clients.

Senior Facilities Operations and Maintenance Engineer – (1995 –2002) – SEH America, Inc. Vancouver, WA

- Provided engineering and technical support for facility operations including air pollution control equipment, industrial wastewater treatment, hydrogen gas recovery unit, bulk hazardous and inert gas delivery systems.
- Designed and managed installation and startup of facility systems including wet scrubbers, chemical delivery tanks and bulk gas systems that resulted in operational and environmental performance.
- Conducted hazard operability studies on hazardous gas and chemical systems site-wide and implemented action items for safer operations and regulatory compliance.
- Decommissioned hydrogen recovery system that contained flammable, corrosive, toxic, pyrophoric and

shock sensitive materials.

Air and Process Engineer – (1995) – CH2MHill, Portland, OR

- Gathered and compiled air emissions data for CAA Title V air operating permit applications for pulp and paper, port, military and chemical process facilities. Negotiated regulatory interpretations and permit conditions with Oregon Department of Environmental Quality.

Instructor – (1995, 1996) Oregon Graduate Institute, Hillsboro, OR

- Prepared materials and provided instruction for graduate-level course in Practical Applications of Air Pollution Control and Regulations.

Environmental Engineer – (1988 – 1995) – SEH America, Inc. Vancouver, WA

- Environmental regulatory/compliance – developed and managed programs for hazardous waste, air, water, waste minimization, OSHA process safety management, SARA, TSCA, DOT, tank management, site assessments.
- Pollution control equipment projects – designed processes for air pollution control and water treatment equipment, including solvent recovery systems and air strippers.
- Environmental projects – managed recycling and elimination programs for solvents, managed waste reduction efforts that resulted in SEH receiving the Association of Washington Business Environmental Excellence Award for Pollution Prevention (1993)

EDUCATION

B.S. Chemical Engineering – Washington State University, Pullman, Washington. Minors in math and chemistry.

Master of Engineering Management Program – Washington State University, Vancouver, Washington. 19 semester hours completed.

LEADERSHIP & TECHNICAL COMMITTEES

- National Association of Clean Water Agencies (NACWA) – Board Member and Chair of Pretreatment and Pollution Prevention Committee
- Oregon Association of Clean Water Agencies (ACWA) – Board member and Chair of Biosolids and Recycled Water Committee
- WEF / PNCWA – Member, active in PNCWA Membership Committee – Racial and Social Justice subcommittee
- International Water Services Flushability Group (IWSFG)* – Founding member
- ISO TC 224 WG 10 Service activities relating to drinking water supply systems and wastewater systems – Flushable products
- Pacific Northwest Pretreatment Workshop – Past chair of planning committee

AWARDS AND RECOGNITION

- NACWA National Environmental Achievement Award for Utility Leadership (2020)
- PNCWA Individual Distinguished Achievement Award (2021)
- Oregon ACWA Special Recognition Award (2021)

RELATED SKILLS

- Preparation and delivery of numerous presentations for wide audiences including City Council, local organizations, conferences, with subjects including wastewater systems, energy management program, solids management, wipes.
- ISO 14001 Environmental Management Systems
- Industrial & Municipal Energy Management Programs
- Emergency Response, Spill Contingency Planning (formerly 40-hour HAZWOPER trained)
- Hazard Operability Study (HAZOPS) team leader
- Inventor, U.S. Patent Number 5,637,282. Nitrogen Oxide Scrubbing with Alkaline Peroxide Scrubber
- Lean Six Sigma (LSS) – Yellow Belt, currently enrolled in Green Belt coursework