

# **Marcia L. Karr, ME, P.E., Energy Engineer**

Licensed mechanical engineer and registered Professional Engineer with over 30 years of experience in commercial building design, construction and maintenance

## **Washington State University Energy Program, 2009–Present**

- Perform energy audits on commercial buildings
- Provide technical assistance to commercial building owners, operators and builders who are exploring energy-saving opportunities
- Registered with the U.S. Dept. of Agriculture to perform energy audits for the agricultural sector, including dairies and greenhouses

## **Professional History**

### **City of Portland, Mechanical and Energy Codes Plan Reviewer, 10 years**

- Reviewed building construction projects (industrial, hospitals, jails, offices, high rises, etc.) in Portland for compliance with codes as they relate to energy and mechanical codes

### **Hunter-Davisson, Inc., Design/Build Project Engineer, 5 years**

- Performed HVAC sales, design and estimating for construction with company workforce
- Employed building, mechanical, plumbing and electrical codes and OSHA regulations daily
- Provided design/build of commercial buildings (multi-family residential, office, high tech, education and government)
- Facilitated initial discussion of system types and discussed advantages and disadvantages for project building/owner
- Provided engineering/coordination with other disciplines and field support
- Negotiated maintenance/system adjustments

### **King County Facilities, Facilities Trades Supervisor, 2 years**

- Managed the union trades (engineers, electricians, plumbers/pipe fitters, carpenters) in performing 24/7 operations, capital improvement projects, preventive maintenance and tenant improvements
- Set up the Preventive Maintenance Department for about 3 million square feet of county-owned facilities including jails, courthouses, animal shelters and office buildings
- Developed justification for proper staffing and budgeting for facility operations and maintenance
- Reviewed new construction plans and specifications

### **SDL/McCarthy Corporation, Construction Project Manager, 3 years**

- Mechanical coordination for construction of Regional Justice Center in Kent, WA
- Oversaw construction and verified compliance with applicable codes
- Managed Class M-1 clean-room HVAC construction

### **Plan & Spec Engineering Firms, Design Engineer, 12 years**

- Conducted energy and code compliance audits of Seattle schools and Boeing facilities
- Provided HVAC design for all types of commercial buildings

## **Education and Certification**

- Bachelor of Science, Illinois Institute of Technology, graduated with Honors, Pi Tau Sigma (mechanical engineering, minor in management)
- Professional Engineer, Registered in Oregon and Washington
- Member of ASHRAE
- Licensed Commercial Buildings Energy Code (NREC) Plans Examiner
- Class A Mechanical Plans Reviewer