

# Steam Engineering, Inc.



A  
Northwest-Based  
Company

## CAPABILITY STATEMENT

### STEAM ENGINEERING, INC.

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Vancouver, WA 98684

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<http://www.steamengineering.com>

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### COMPANY OVERVIEW

A consulting engineering company specializing in all aspects of steam generation. Founded in 1987. Our engineers are certified steam specialists with the U.S. Department of Energy.

#### We provide:

**ASSESSMENT** of your boiler or steam system

**INSTRUCTION** on steam improvements; and, the use of U.S. Department of Energy suite of software tools for evaluating and improving steam systems ([SSAT software](#))

**SAFETY TRAINING** for boiler operators

**COST CONTROL** and efficiency plans

**BOILER CONVERSIONS** and operations using multiple fuels, wood, sorghum, natural gas, fuel oils, digester and landfill gases

**OPTIMIZATION** of your steam system, chemical treatment and pre-treatment

### AREAS OF EXPERIENCE

**New steam system design:** Boiler room, steam distribution, and condensate return system.

**Boiler efficiency improvement:** Blowdown heat recovery, feedwater economizers, full condensing economizers, air heaters.

**Resource utilization:** Combustion optimization of fuels including wood, coal, natural gas, oil, digester gas. Steam turbine generators.

**Optimizing return condensate system:** Flash steam recovery, high temperature feedwater systems, condensate heat recovery.

**Instruction:** Steam system assessment tool software usage, steam system optimization, boiler operator safety training.

### COMPANY DESIGNATIONS

U.S. SBA Small Business Classification  
DUNS: 181209933

CAGE: 4KA95

Registered to work in all 50 states

NAICS:

541330—Engineering Services

541620—Environmental Consulting  
Services

541380—Testing Laboratories

325998—Water Treatment Services

### PAST PERFORMANCE

- Extensive work with industries including food & beverage, wood products and government
- Many training seminars on the use of [SSAT software](#), through the US Department of Energy
- 30 U.S. Department of Energy Steam System Assessments
- 46 Natural Gas Assessments for the Energy Trust of Oregon
- McKenzie Forest Products increases production using less steam
- J.R. Simplot burner upgrade reduces fuel consumption
- West Linn Paper Company reduces fuel expense \$379,000 per year
- International Paper Company increases drying capacity using less fuel
- Many additional projects resulting in higher steam plant efficiency and reduced fuel usage

### KEY PERSONNEL



**Bill Moir, PE**, Oregon Registration #9233; USDOE Qualified Steam System Specialist and Instructor; over 40 years of specialized steam system improvement and design experience. Member, American Society of Mechanical Engineers. Bill founded **Steam Engineering, Inc.** in 1987. Additionally, he served in the U.S. Navy for eight years as carrier pilot, aircraft maintenance officer, and power plants officer.



**Norm Sanesi PE**, Oregon Registration #8915; **MBA**. USDOE Qualified Steam System Specialist; power plant and specialized steam system improvement engineering and design; 40 years of mechanical engineering experience including work with Portland General Electric from 1972 to 1985 engineering new electric power plants (hydro, nuclear, coal natural gas, geothermal, biomass, cogeneration, and solar). Member, American Society of Mechanical Engineers.