EDT
Forensic Engineering & Consulting

JEFFREY A. GROVES, P.E.
Engineering Design & Testing Corp.

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ENGINEER: MECHANICAL

EXPERIENCE

October 2020 to Present
Engineering Design & Testing Corp.
Marlton, New Jersey

Consulting Engineer
Conduct investigations of incidents involving mechanical components, equipment, and systems. Investigations include the collection of data – through the examination, research, and testing of evidence – and the analysis of data. Findings are developed and evaluated, and reports are prepared documenting the investigation and findings. Services provided include determining the root cause of an incident, assessing the scope of damage, and/or evaluating the repair/replacement costs.

August 2004 to October 2020
Holtec International
Camden, New Jersey

Principal Mechanical Engineer
Led mechanical team developing a small modular nuclear reactor. Created and reviewed detailed drawings and technical reports documenting mechanical calculations, analyses, and ASME BPVC Section III and Section VIII code compliance for nuclear power plant vessels, heat exchangers, piping, and structures.

Design Manager
Created and reviewed calculations and drawings for equipment designs for nuclear and commercial power generation applications. Provided reviews verifying designs were in accordance with applicable industry codes and standards, client specifications, and project calculations.

Project Engineer
Created design calculations and fabrication drawings for ASME BPVC Section III and Section VIII pressure vessels and heat exchangers for power generation applications. Provided shop and field engineering support to investigate and resolve equipment fabrication, installation, and operational issues at commercial and nuclear power plants.

Senior Mechanical Designer
Prepared fabrication drawings and 3-D models of steam surface condensers, heat exchangers, and pressure vessels. Performed equipment inspections and witnessed equipment testing and commissioning activities at manufacturing facilities and job sites. Created engineering drawings for analysis, manufacturing, procurement, quality control, sales and marketing, and patenting activities.

September 2001 to August 2004
Action Manufacturing Company
Philadelphia, Pennsylvania

Mechanical Designer
Designed precision safety and arming mechanisms for ordnance products used by the U.S. Armed Forces. Validated design functionality by means of destructive and

non-destructive testing. Designed machines and fixtures which minimized human exposure to explosive products during manufacturing, assembly, and/or inspection.

December 2000 to August 2001 **WSI Global**
Grand Junction, Colorado

Mechanical Drafter
Created detailed fabrication drawings of machined parts, equipment frames, guards, and weldments for high-speed folding and gluing equipment for the food and beverage packaging industry.

June 1999 to November 2000 **Walsh Environmental Scientists and Engineers**
Grand Junction, Colorado

Drafter
Created abatement and demolition drawings for projects involving removal of hazardous materials. Prepared site maps and drawings for environmental site assessments.

EDUCATION

May 2012 **Bachelor of Science, Engineering Technology**
Temple University, Philadelphia, Pennsylvania

December 2000 **Associate of Applied Science, Manufacturing Technology**
Colorado Mesa University, Grand Junction, Colorado

PROFESSIONAL LICENSES

Licensed as a Professional Engineer (P.E.) in the following states:

- Connecticut – License No. 35887
- Delaware – License No. 25835
- Florida – License No. 102431
- Maryland – License No. 56709
- Massachusetts – License No. 58575
- New Jersey – License No. 24GE05401600
- New York – License No. 103929
- North Carolina – License No. 058187
- Ohio – License No. PE.93087
- Pennsylvania – License No. PE091568
- Rhode Island – License No. 15238
- Texas – License No. 143476
- Virginia – License No. 0402062879
- West Virginia – License No. 024419

PROFESSIONAL AFFILIATIONS

- American Society of Mechanical Engineers (ASME)
- ASM International (ASM)
- National Fire Protection Association (NFPA)
- Temple University College of Engineering, Industrial Advisory Committee Member, 2012 to 2018