

Curriculum Vitae of

JOSEPH A. WITHERSPOON

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SYNOPSIS

Mr. Witherspoon is an experienced Process Engineer and Capital Project Manager with strong analytical, problem-solving and troubleshooting skills. He also has a strong conceptual and practical understanding of petroleum refining processes, natural gas processing (including cryogenics), and other major chemical processes and is extremely proficient with process simulation programs such as Pro/II and AspenHYSYS.

Mr. Witherspoon's areas of expertise include distillation, hydrotreating, catalytic reforming, isomerization and polymerization, alkylation, amine treating, sulfur recovery, cryogenic separation, gas treating, heat-exchangers and fired heaters, pumps and hydraulics, piping systems, and compression. Areas of special interest and expertise include carbon fibers, biofuels and bioenergy, renewable energy, and clean energy technologies.

Mr. Witherspoon has performed extensive process design and detailed engineering design for all aspects of oil refining and natural gas processing such as PFD design and review, P&ID design and review, vessel and equipment sizing and specification, detailed vessel and equipment design, etc. Additionally, he has a high level of experience in Process Hazard Analyses (PHA's), Pre-Startup Safety Reviews (PSSR's), and other Process Safety Management programs and procedures. His work has added significant value to his clients' reliability and profitability.

EDUCATION

University of Utah

B.S. Chemical Engineering

Fuels and Combustion Emphasis

2000

EXPERIENCE

Palmer Engineering and Forensics, LLC – Kaysville, Utah

Senior Associate Engineer

2010 – Pres

Moneyhun Companies – Rock Springs, Wyoming

Senior Process and Design Engineer

2009 – 2010

Sinclair Oil Corporation – Salt Lake City, Utah

Economics and Planning Engineer

2009

Capital Project Manager and Senior Process Engineer

2008 – 2009

Top Design, Inc.

Project Engineering Manager and Consulting Engineer

2007 – 2008

Enterprise Products Company – Farmington, New Mexico

Process Engineer

2005 – 2007

Western Refining Company – El Paso, Texas

Process Engineer

2001 – 2005

Nan Ya Plastics – Lake City, South Carolina
Process Supervisor

2000 – 2001

University Combustion Research Center – Salt Lake City, Utah
Research Associate

1999 – 2000