

FORCON INTERNATIONAL

DAVID E. MURPHY

SUMMARY

Mr. Murphy has over 15 years of experience in heavy industry with projects including custom rigging and lift structure design, structural steel design, concrete design, finite element analysis, deep foundations, and industrial equipment installations.

EDUCATION

Bachelor of Civil Engineering - Auburn University, Auburn, AL

PROFESSIONAL ASSOCIATIONS

American Society of Civil Engineers, Member
Chi Epsilon, Member

AWARDS AND RECOGNITION

Milliken Spirit Award, From Milliken & Company for the 1995 Live Oak Plant Rebuild.

Outstanding Achievement Award 1995, for first sale of electric boiler to the textile mill.

CAREER HISTORY

FORCON International – Independent Consultant

Conducting forensic engineering and expert witness services in his fields of expertise.

Cowles, Murphy, Glover & Associates, LLP, Mobile, AL - Partner

- Managing partner in full service engineering design firm.
- Design of commercial and industrial structural steel and heavy reinforced foundations. Design of heavy lift beams for power plants.
- Project Manager responsible for overseeing construction from design to completion including project scheduling, resolving field design modifications and providing our clients with an "as-engineered" project.

Cowles & Murphy Engineering, Mobile, AL - Partner

- Managing partner in full service engineering design firm.
- Civil, structural, mechanical design of commercial buildings.

Georgia Power Company

Newnan, GA - Account Executive

- Single point of contact for over twenty of Georgia Power's largest industrial accounts, representing more than twenty five million dollars in annual sales to Georgia Power.

Newnan, GA - Senior Power Marketing Engineer

- Responsible for establishing relationships with industrial customers, commercial HVAC dealers, contractors, architects, and engineers.
- Assist industrial and commercial customers with rate analysis for new and existing electrical loads, sizing HVAC equipment, electrical panels, and transformers, coordinate the installation of new services and schedule maintenance outages.

Waycross, GA - Commercial Marketing Engineer

- Responsible for establishing relationships with industrial customers, commercial HVAC dealers, electrical contractors, architects, and engineers.
- Responsible for sizing HVAC equipment, electrical panels, and transformers.

Waycross, GA - Assistant Residential Marketing Engineer

- Responsible for establishing relationships with residential HVAC dealers and builders, sizing of residential HVAC equipment.

HIGHLIGHTED RIGGING & STRUCTURAL/CIVIL ENGINEERING PROJECTS

AEP, Clifty Creek Station, Madison, IN – Provided engineering for lifting lug design, lift plans, and rigging plans for installing 1,700 tons of ductwork associated with the JBR project.

AEP, Cardinal Station, Brilliant, OH – Provided engineering for lift and rigging plans for installing 340 tons of fiberglass ductwork (largest piece was 226' long and 31' in diameter) and 55 tons of structural steel. Engineering included the design of lifting lugs for the structural steel components.

Bath-Austal, Mobile, AL – Provided engineering and rigging design for the mast of the Department of Defense's Littoral Combat Ship prototype.

CF Industries, Yazoo City, MS – Provided engineering for a 150 ton lifting beam, lift plans, and rigging plans for the removal and installation of a 133 ton urea reactor.

Chevron, Pascagoula, MS – Provided engineering and rigging design for a 50 ton steam drum, 200 tons of fin fans, a 45 ton delta valve, a 50 ton compressor, and a 30 ton crusher car.

City of Tallahassee, Plant Hopkins – Provided engineering and rigging design for setting 900 tons of HRSG tubes bundles, a 150 ton turbine, and a 225 ton generator.

Clipper Wind, Fowler Project – Provided engineering and rigging design for the installation of a 55 ton gearbox and 72 ton rotor.

Clipper Wind, BP Silver Star Project – Provided engineering and rigging design for the installation of a 55 ton gearbox and 72 ton rotor.

ConocoPhillips, Houston, TX – Provided engineering and rigging design for the load out of 2 - 178 ton boilers.

ConocoPhillips, Borger, TX – Provided engineering and rigging design for 2 modular electrical buildings, a 45 ton boiler, a 33 ton naphtha separator, 3 - 25 ton fin fans, a 50 ton splitter, a 48 ton splitter, 2 - 43 ton reactors, and 4 – 26 ton f in fans.

Entergy, Arkansas Nuclear One – Provided engineering and design services for the relocation of a 500 ton stator from Palisades to ANO. Engineering included transportation, barge securement, barge roll-on and roll-off operations, rigging design, and gantry operations.

Entergy, Palisades Nuclear Generation Station – Provided engineering and design services for the relocation of a 500 ton stator from Cooper Nuclear to Palisades. Engineering included transportation, barge securement, barge roll-on and roll-off operations, rigging design, and gantry operations.

ExxonMobil, Joliet, IL – Provided engineering for civil site improvements, transport drawings, and rigging design for unloading 687 tons of modular pipe racks and a 160 ton scrubber component from barge.

Fermi Nuclear – Provided engineering and rigging design for the reactor decommissioning project.

FirstEnergy, Beaver Valley Nuclear, Shippingport, PA – Provided engineering for barge securement, barge roll-off operations, transportation, rigging design, and gantry operations for 662 tons of new equipment for the LP2 Turbine Replacement project.

Flint Hill Resources, Corpus Christi, TX – Provided engineering for the load out of 2,150 tons of modular pipe racks.

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Flint Hills Resources, Pine Bend, Rosemount, MN – Provided engineering support for setting a 270 ton product fractionator, a 650 ton reactor, and a 500 ton reactor for the Low Sulfur Diesel project.

Gateway Logistics – Provided engineering and rigging design for the load out of 2 - 135 ton boilers.

Gibson & Associates, Louisiana Bridge Replacement – Provided engineering and rigging design for the replacement of a 130 ton tub girder.

Grand Gulf Nuclear Station, Vicksburg, MS – Provided engineering and rigging design support for the Extended Power Uprate project. Involved the removal and replacement of transformers, feedwater heaters, steam dryers, MSRs, generator, rotors, and various other components.

Kansas City Power and Light, Iatan 2 – Provided engineering and rigging design for the installation of four new feedwater heaters, 541 tons total load.

Kimberly Clark, Mobile, AL – Provided engineering and rigging design for the 63 ton TAD dryer replacement project.

Marathon Oil, Catlettsburg, KY – Consultant for the replacement of a 90 ton crude tower.

Marathon Oil, Detroit, MI – Consultant for the Heavy Oil Upgrade project. Included lift and rigging plans for the modular pipe rack modules and various other components.

Marathon Oil, Robinson, IL – Consultant for Unit 1 Turnaround project. Included lift and rigging plans for several heat exchangers.

Morris Group, Birmingham, AL – Provided engineering and rigging design to install the girders for the Jefferson County bridge project and the Choctaw Point bridge project.

Murphy Oil, Meraux, LA – Provided engineering and rigging design for the installation of a new 280 ton reformate splitter.

Progress Energy, Crystal River Nuclear – Engineering support for power uprate project. Included the replacement of a moisture separator, heat exchangers, and a feedwater heater.

Pryor Chemical, Pryor, OK – Provided engineering for 150 ton lifting lug, lift plans, and rigging plans for the removal and installation of a 133 ton urea autoclave.

Rhodia, Houston, TX – Provided engineering to jack and slide a 240 ton economizer for the Economizer Replacement project.

S & B Petro, Houston, TX – Provided engineering for the load out of a 1,200 ton splitter, a 200 ton reboiler, a 184 ton reactor, and a 364 ton steam generator

SCE&G, V.C. Summer Nuclear Station – Provided engineering for the barge securement, roll-off, and transport plans for 2 - 303 ton Deareator vessels.

Signal Shipyard, Mobile, AL – Provided engineering and rigging design for the removal of a 120 ton Clyde Whirley dry dock crane.

Southern Company, Cleveland County Generating – Provided engineering and rigging design to install a 40 ton transformer.

Southern Company, Cleveland County Generating – Provided engineering for the transport and jack & slide installation of a 161 ton transformer.

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Southern Company, Kemper County – Provided engineering for jacking haunch, saddle, and slide system for the installation of 324 tons of gasifier piping.

Southern Company, Martin Hydro – Provided low overhead rigging design for the removal of the 140 ton Unit 4 Stator.

Southern Company, National Carbon Capture Center – Provided engineering and rigging design to install 12 modular pipe rack units, 473 tons total load.

Southern Company, National Carbon Capture Center – Provided lift and rigging plans for the tailing and installation of the 23.5 ton MVE tank.

Southern Company, National Carbon Capture Center – Provided lift and rigging plans for the tailing and installation of the Absorber and Desorber columns.

Southern Company, National Carbon Capture Center – Provided lift and rigging plans for the tailing and installation of the Absorber, Regenerator, and Wash columns.

Southern Company, Plant Barry – Provided engineering and design for the FGD scrubber project. Included engineering and rigging design for 2 - 25 ton Forced Draft Fans and various other components.

Southern Company, Plant Barry – Provided engineering and rigging design for a 58 ton gas riser, for the JBR project.

Southern Company, Plant Barry – Provided engineering and rigging design for a 57 ton limestone storage silo.

Southern Company, Plant Barry – Provided a structural analysis of the Discharge Bridge for a heavy haul transport trailer.

Southern Company, Plant Bowen – Provided engineering and design for the baghouse project. Included lug designs, rigging plans, and lift plans for setting 2,560 tons of modular baghouse components.

Southern Company, Plant Crist – Provided engineering and rigging for various components of the JBR and FGD scrubber projects.

Southern Company, Plant Crist – Provided engineering and rigging design for 2 - 41 ton feedwater heaters.

Southern Company, Plant Crist – Provided engineering and rigging design for a 38 ton limestone storage silo.

Southern Company, Plant Crist – Provided engineering, lift plans, and rigging plans for 1,800 tons of duct work and structural steel associated with the SCR project. Also provided lift and rigging plans for an ammonia tank, several motors, several fans, DE Modules, CE Modules, and an electrical building.

Southern Company, Plant Gaston – Provided engineering and design for the baghouse project. Included lug designs, rigging plans, and lift plans for setting 2,560 tons of modular baghouse components.

Southern Company, Plant Gaston – Provided engineering and rigging design for a 5 ton pump housing and engineering for a pump support beam.

Southern Company, Plant Gaston – Provided engineering and rigging design for the FGD scrubber project. Included lug designs and lift plans for setting more than 1,200 tons of ductwork, modular electrical buildings, motors, etc.

Southern Company, Plant Gaston – Provided engineering and design for the baghouse ductwork project. Included lug designs, rigging plans, and lift plans for setting 2,700 tons of modular ductwork components.

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Southern Company, Plant Gaston – Provided engineering and design for the Unit 5 Superheater Replacement project. Included design of lifting devices, rigging plans, and lift plans for removal and installation of 1,000 tons of modular superheater units.

Southern Company, Plant Gorgas – Provided engineering and design for the baghouse project. Included lug designs, rigging plans, and lift plans for setting 2,560 tons of modular baghouse components.

Southern Company, Plant Gorgas – Provided engineering and design for the baghouse ductwork project. Included lug designs, rigging plans, and lift plans for setting 2,800 tons of ductwork, a 38 ton ACI Silo, a 57 ton booster fan motor, and various other components.

Southern Company, Plant Gorgas – Provided engineering and design for the FGD scrubber project. Included lug designs and lift plans for setting more than 100 components. Components included over 2,500 tons of ductwork, modular electrical buildings, motors, etc.

Southern Company, Plant Gorgas – Provided lift and rigging plans for the furnace wall replacement project. Included the installation of 111 tons of tube assembly modules.

Southern Company, Plant Miller – Provided engineering and rigging design for the FGD scrubber project. Included lug designs and lift plans for setting more than 9,000 tons of ductwork, modular electrical buildings, motors, etc.

Southern Company, Plant Miller – Provided engineering and rigging design for SSH platens, water wall panels, boiler tubes, a 25 ton pump motor, a 30 ton feedwater heater, and a 50 ton feedwater heater.

Southern Company, Plant Miller – Provided lift and rigging plans for unloading the 39 ton new Low Pressure Feedwater Heater No. 3.

Southern Company, Plant Miller – Provided lift and rigging plans for the Superheater Replacement project. Included the installation of 624 tons of SSH modules.

Southern Company, Plant Smith – Provided engineering and rigging design for the emergency replacement of 3 spans of a coal conveyor totaling over 150 tons.

Southern Company, Plant Wansley – Provided lift and rigging plans for installing 2 - 18 ton SAMC silos and 1 - 34 ton ACI silo.

Southern Company, Plant Vogtle – Provided engineering for civil site improvements, barge securement plans, roll-off and transport plan for a 303 ton Deareator vessel.

University of Wisconsin, Madison, WI – Provided engineering for the boiler installation project. Included lift plans, rigging plans, and jack & slide plans for 2 - 120 ton boilers.

USACE, New Orleans, LA – Provided engineering for mooring pile design, lift plans, and rigging plans for the installation of 2 - 115 ton sector gates for the LPV 144 levee project with a barge crane.

Virginia Power, Bear Garden – Provided engineering and rigging design for a 166 ton transformer and a 208 ton transformer.