

## Contact

941-786-7034 (Mobile)  
alcarpenterjr@hotmail.com

[www.linkedin.com/in/alcarpenter](http://www.linkedin.com/in/alcarpenter)  
(LinkedIn)  
[www.alcarpenter.com](http://www.alcarpenter.com) (Other)  
[alcarpenter.com/coming-soon](http://alcarpenter.com/coming-soon)  
(Other)

## Top Skills

Commissioning  
Energy  
Power Plants

## Honors-Awards

Who's Who Outstanding  
Professionals

US patent (pending #4)

Who's Who Outstanding  
Professionals

US patent (pending #3)

Recd.US patent (#2)

## Patents

Novelty Shampoo Bottle - pass the  
mic

# Al Carpenter

Commissioning Manager  
Marble Falls

## Summary

[www.Al-Carpenter.com](http://www.Al-Carpenter.com)

Best suited for...

- > Completion / Handover, Manager
- > Commissioning / Manager
- > Project Systems Coordinator
- > Rotating Equipment, Manager
- > Sr. Contract Coordinator (Planned Outages)
- > Owner's Representative (New Construction)
- > Quality Control Inspector (Site/Factory Acceptance)

Oil & Energy | Pharmaceutical | ISO 9 Clean Rooms | Battery Cells  
Manufacturer (electric vehicles) | New Construction | Planned/Forced  
| Outage/Shutdown Support | Owner/Client Representative | Systems  
Turnover | Completions | Pre-Commissioning | Start-Up | Handover

Systems Turnover / Start-Up Commissioning / Handover:

Selecting and organizing teams of commissioning personnel to perform fast-track pre-commission/startup coupled with completions turnover. Pre-Commission-ISO 9 Positive Pressure Cleanrooms, review pre-commissioning procedures and method statements, modified where needed. To achieve project alignment Construction and Pre-Commissioning team required open dialog between departments for Startup activities. This process, accomplished by establishing and recognizing all counter parts in all directions, then coordination from each group to the startup team. Daily reports distributed each day by the pre-commissioning team to both groups. Once achieved, project becomes aligned. Sub-system turnover sequence is formulated and put into place. Experience in implementing, coordinating, planning, and developing work methods for teams to achieve smooth transition of completed systems, from core group of multi-discipline staff directing craft for pre-commissioning activities. Analyzing methods of work scope/structure

and implementing changes to achieve reduction of startup duration and smooth handover to the client.

Letters of Recommendation link:

<http://alcarpenter.com/recommendation-letters>

My specific areas of Strength coupled with "Hands-on" Experience and Education

- Detailed attention to Project Safety
- Systems Handover (Client/Owner)
- Commissioning Manager
- Contract Compliance
- Project Completion Tracking
- Client Relationship Development
- Staff development/leadership
- Work Package Development/Review
- Construction Coordination
- System Turnover Prioritization
- Work Breakdown Structure
- Punch-list Closure
- Pre-Commissioning Coordination

(941) 786-7034 My Cell

(941) 223-5817 Wife (Julia)

Home Based: Texas (USA)

Skype.com ID: al.carpenter

Email ID: [alcarpenterjr@hotmail.com](mailto:alcarpenterjr@hotmail.com)

Email ID: [al@alcarpenter.com](mailto:al@alcarpenter.com)

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## Experience

Gresham Smith

Commissioning Manager

August 2021 - Present (7 months)

Lordstown, Ohio, United States

This is a new facility for manufacturing battery cells used in electric cars and other electric vehicles. Specializing in the development of raw materials into pouch cells, which are ideally suited to automotive applications. The

goal, increase battery performance while lowering cost to help facilitate the global transition to electric vehicles, all with safety as their top priority. Ultium Cells is a multinational joint venture between LG Chem, the world's largest automotive cell manufacturer, and General Motors, one of the most enduring and successful names in the entire auto industry. The result of that collaboration is one of the largest, most technologically advanced battery cell manufacturing facilities in the world. Responsible for streamlining the commissioning platform CxAlloy plus, provide project leadership for scope identification and procedure development for turnover and pre-commissioning. Primary contractor interface for critical issues associated with system turnovers. Reviewed/Managed EPC's Start-Up file system and monitored construction data (components/equip.) for Turnover Acceptability. Review project specifications and manufacturer installation procedures, review contractors ITP plan to establish communication of witness and testing points, monitor quality documentation, checks and procedures, assist contractor with technical guidance including auditing of stored materials and equipment for adherence for established procedures and assist with owner equipment training.

## Jacobs

### Commissioning Manager/Project Turnover

November 2019 - March 2021 (1 year 5 months)

Elkton, Va

This project venture is to expand Merck's manufacturing operation in Elkton, VA. Jacobs is the prime Engineering firm to build / designing 120,000 square feet structure to its existing 1.1 million-square-foot operations in Rockingham County to increase production of its Human Papillomavirus (HPV) vaccines. This project will consist of 194 systems required for Client/Owner Handover. Facilitate meetings and monitor vendor representative's work, charges, and documentation daily. Performed construction process assessments during system walk-downs and identify exceptions and deficiencies. Provide commissioning and testing of individual components, systems, and stations as a complete integrated unit to meet all contractual obligations. Performed specific functions for Start Up. Review project specifications and manufacturer installation procedures. Review/Sign-off contractors ITP plans to establish communication of witness and testing points. Track daily progress of assigned systems and provided a weekly report of such progress and activities. Monitor quality documentation, checks and procedures, assist contractor with technical guidance. Provide technical data and assist contractor with corrective measures addressing potential unforeseen problems and minor/daily issues.

Florida Power & Light Company  
Sr, Contract Coordinator (Owner's Rep.)  
April 2018 - October 2019 (1 year 7 months)  
Florida, United States

#### Projects

- 1) West Count Energy Center, Loxahatchee, FL.
- 2) Fort Myers Plant, Fort Myers, FL.
- 3) Manatee Plant, Parrish, FL

HRSG upper and lower penetrations/replacement (oversee sub-contractors/ acquire and maintain system clearances), CT Overhaul/upgrade (oversee sub-contractors/acquire and maintain system clearances) M501G CT-HGP-TI-Gen Minor, Ct enclosure removal, upper turbine casing removal, disassemble and inspect combustor components, inspect turbine blades vanes, and seals, inspect compressor IGV's blades and diaphragms plus, transition igniter upgrades. Change out boiler tube bundles and economizer repairs. CT Overhaul/upgrade (oversee sub-contractors/acquire and maintain system clearances)

M501G CT-Turbine Casing insulation upgrade (oversee sub-contractors/ acquire and maintain system clearances) review procedures, arrange for revision if significant errors are found. M501G Gen Minor, CT enclosure removal, upper turbine casing removal, disassemble and inspect combustor components, inspect turbine blades vanes, and seals, inspect compressor IGV's blades and diaphragms. Develop a list of clearances for all assigned contractor tasks and submit complete clearance request. Obtain each clearance, measure/evaluate how other work impact work areas.

Attend each pre-outage outage meeting, complete understanding purchase order and proposals for all site and shop contractors. Review lump sum and time and material/consumables contract terms. Perform random headcounts for T&M contracts. Ensure times sheets are received by the cost scheduler in a timely manner, keeping the cost scheduler in the know. Reach out to sub-contractors and coordinate their mobilization date. Review contractor confined space program prior to mobilization. Contact shop contractors provide notification when to expect components.

Energy Project Resources, Inc. (EPR)  
Construction Management Consultant/System Turnover

January 2018 - March 2018 (3 months)

Jharsaguda, Odisha, India

IB THERMAL POWER STATION 2 × 660 MW Super-Critical Units 3 & 4 along with other common facilities Jharsuguda, Orissa-India

For this Project I will oversee System Turnover Packages from two primary EPC (Contractors) and our Construction Management Team (CMT, Owner side) for the issuance of either Erection Completion Certificate (ECC) or Mechanical Completion Certificate (MCC). Once the EPC submits a Request for Inspection (RFI) for the ECC, the turnover package will undergo a turnover package review process as noted within the approved contract.

After resolution of all the category “A” punch items are validated as cleared/closed the EPC will submit a Turnover notice request. If, Acceptable sub-system/system progress to the issuance of the (ECC). This turnover notice contains all documents as per appendix H (Clause 2.6) of service contract. This is to ensure complete resolution of all items in the turnover package and captured punch items. The ECC is now ready to proceed through to the Safety Rule Clearance Certificate (SRCC) process. Meaning; the sub-system is read to commence with pre-commissioning activities. After validating the completion /consolidation of all the sub-systems required for the issuance of the ECC the next step is for the EPC is to proceed forward requesting the issuance of a (MCC).

## EthosEnergy

System Turnover Support Specialist (Owner's Rep.)

June 2017 - December 2017 (7 months)

Carrollton, OH

New Construction, Carroll County Energy, 700MW Combined Cycle Plant Facility - Carrollton, Ohio

As the System Turnover Support Specialist, duties included but... limited to surveillance monitoring and coordination of EPC compilation of all completions documentation system package deliverables from Mechanical Completion, Ready for Start-Up to Initial Acceptance.

Review client turnover packages for completeness, Motor Control Center (panel inspection), Electrical Equipment Lists (cable listing) Megger reports (provided/correct), Torque Values (vendor-specified torque value/code validation) instrument loop dossiers, relief valves, spring supports, electrical

circuits, equipment packages etc., Attend all client turnover meetings and EPC Startup / Client system walk downs., Communicate with various Departments on the handover documentation to achieve the mechanical completion date.

Coordinate Project System Owner Completion for all discipline (Civil, Structural, Arch, Electrical, Instrumentation, HVAC, Piping, Fire Protection and Mechanical)., Follow the site approved turnover process and procedure for permanent plant systems per the contract., Establish good relationships with EPC/client by showing the reliability of database and cohesiveness of system handover.

Oversee EPC contractor completion punch lists and ensure timely completion of all outstanding work and turnover documentation. , Review, system punch lists, and provide an auditable trail to ensure that all punch list items are captured, cleared and signed off for completion., Review agreed lists of system exception items to be completed by agreed dates, and to monitor and record completion of such exception items., Ensure that all the corrective actions to close the punch list were performed., Complete and maintain the client master systems matrix for Initial Acceptance., Communicate to EPC for client ensuring each system turnover is fully accepted by signature(s).

Mitsubishi Hitachi Power Systems Americas, Inc.  
Technical Support Engineer III (USA Corporate Office)  
June 2016 - May 2017 (1 year)  
Lake Mary, FL

Support construction and commissioning activities of CCGT projects. As required, coordinate activities with Engineering, Technical Field Advisors in the field, Vendors and Contractors at site. Gather approved required documents and information to support the completion of relevant construction activities/ requirements. Coordinate internally with other execution disciplines and observe and ensure construction practices as required for compliance of construction operations/execution with federal, state, and local codes, industry standards, company procedures, and contractual requirements.

Create action plans for the standardization / harmonization of best practices in MHPS with the implementation of the standards, guidelines, and SOPs utilized consistently for all projects. Provide determinations regarding standardization of specific process or practice for MHPSA and assist the project with implementation. Prepare and review method of procedures, commissioning plans, technical reports, specifications, and in-house/field studies. Implement

project management best practices through work plans, critical path analysis, and earned value milestones while utilizing the LEAN methodology. Review all aspects of assigned complex projects that support improvements to operations in MHPSA Lake Mary.

Indianapolis Power & Light Company  
Contract Administrator - (Owner's Rep.)  
August 2015 - November 2015 (4 months)  
Indianapolis, Indiana Area

Outage Contract Administrator, responsible for documenting updating pertinent completed activities as well as abnormalities found plus, implementing daily activities streamlining the sub-contractor process from start to finish. Administer and supervise sub-contractor(s) daily/hourly activities required to achieve and maintain contractual compliance. Provide management level information during all phases of the outage process, timeline coordination among multiple sub-contractors. Overall, client/owner liaison for sub-contractor questions, scheduling and support ensuring contract milestones are being achieved as scheduled.

Outage Scope: Full O/M, Full Boiler Wash Internal/External, High Energy Piping (HEP)-FAC/NDE-Inspections, Boiler Inspection/Repairs, Ductwork Inspection/Repairs, Water Box Flushing Configuration, Condenser/Water Box man-safe Isolation Valves, Deaerator Level Controls, Cooling Tower Fan Deck, Piping MT, Valve MT, Expansion Joints MT, Insulation Replacement for HEP Inspections.

Jacobs  
3 years

Completions Turnover Manager - (Direct Hire)  
February 2014 - July 2015 (1 year 6 months)  
Geismar, Louisiana

Relocation/Installation of two methanol plants from its Chile site to Geismar, Louisiana. The first plant, Geismar I, is expected to be operational by the end of 2014. The second plant, Geismar II, is expected to be operational by early 2015. The plants will each be capable of producing 1.1 million tons of methanol a year.

Pre-Commissioning / Completions Manager - (Direct Hire)  
August 2013 - February 2014 (7 months)  
Morenci, AZ

Jacobs Engineering / August 2013 - February 2014

Pre-Commissioning / Completions Manager

Morenci 55K Expansion Project-Morenci, Arizona

MAJOR EQUIPMENT:68,000 mtd crushed-ore leach pad and stacking system; a low-grade run-of-mine leaching system; four solution extract (SX) plants; and three electrowinning (EW) tank houses producing copper cathode.

Responsible for selecting and organizing a team of 14+ commissioning personnel to perform to a fast-track pre-commission and completions turnover of crushed-ore leach pad and stacking system, a low-grade run-of-mine leaching systems, four solution extract (SX) plants and three electro winning (EW) tank houses producing copper cathode for Free-Port-McMo Ran Company. It was necessary to drive and plan the completion process from day one to achieve the targets set by the client. Completions team reviewed all Pre-commissioning procedures and method statements, modified where needed, to effectively meet first copper alignment of sub-systems. In order to achieve project alignment Pre-Commissioning and Construction required open dialog between both departments. This process was accomplished by establishing all counter parts in both directions, then coordination from both groups to the client. Daily reports were distributed each day by the Pre-commissioning team to both of these groups. Once achieved the project became aligned/first copper sub-system turnover sequence was formulated and put into place. Coordination of punch list completion and handover of system documents from each contractor on a weekly basis, sometimes daily. Responsible for implementing, coordinating, planning and developing work methods for the team to achieve smooth transition of completed systems.

Commissioning / Turnover Manager - (Direct Hire)

August 2012 - August 2013 (1 year 1 month)

Whiting, Indiana

Jacobs Engineering / August 2012 - August 2013

Turnover & Commissioning Manager

Modernization Project - BP Whiting Refinery - Whiting, Indiana

MAJOR EQUIPMENT: (two) 1625 GPM Amine Stripping Units, (two) 1100 GPM Sour Water Stripping Units, (two) 575 LTD Sulfur Recovery Units, (two) 610 LTD Tail Gas Units, Distributed Control System, Emergency Shutdown System, Power Distribution Centre



This project was split into two phases, NorthEnd & SouthEnd. Overall the project consisted of 570 sub-systems required for Client/Owner Handover. Upon my arrival to this project (Aug2012) 165 systems had been turned over during a 10month stretch. Being fully accountable and responsible for all System Turnovers it was evident at the time, in order for turnover to be successful the current process would have to be restructured. The path forward, put into place, was to formulate a collaboration of construction and turnover personnel to work closely with project controls to ensure schedules remain reasonable and to help identify any changes that would impact turnover. An alignment between construction, turnover and commissioning was put into place and managed by turnover. Daily construction turnover meetings were driven by turnover, providing pre-populated completion data worksheets in line with project control Mechanical Completion (MC1) system turnover dates. Having aligned both departments the next step was to manage punchlist items captured during Client/Final Walkdowns. Turnover provided the construction group a structured daily hand-out denoting "Priority Items". Sub-system punchlist priority items associated with systems ready for pre-commissioning activities that allowed a smooth transition for Client Handover (SH1). A performance evaluation conducted 10 months later denoted 279 systems had turned over. The turnover restructuring provided a net increase of 114 systems over the same time frame.

TransGlobal Energy, Inc.

Start-Up/Commissioning - Systems Turnover (GE Rep./ Owner liaison)

April 2011 - June 2012 (1 year 3 months)

Subiya, Kuwait

GE Project / TransGlobal Energy, Inc. / April 2011 - June 2012

Start-Up / Commissioning Systems Turnover (GE Rep./ Owner liaison)

New Construction CCGT-2000MW Power Plant Facility - Sabiya Power

Station - Subiya, Kuwait

MAJOR EQUIPMENT: 6-GE Frame PG9351FA (9FA) dual fuel Combustion Turbines, (2 per power block) 3-GE D11, Reheat Steam Turbine-Generators each equipped with a bottom terminals 50Hz 324 hydrogen cooled generator.

Project consisted of (6) GE 9FA Dual Fuel Turbines, (3) GE D11 Steam Turbines and (3) HRSG's, producing 53 primary systems and 713 sub-systems of those 231 were centerline power block. My direct involvement during "phase one" was to review the systems turnover packages for the Power Block

portion, monitor the EPC construction progress for all disciplines by verifying work progress against turnover documentation and system turnover schedule, leveraging others as needed by discipline. Phase two - project required streamlining the overall process of systems turnover from EPC Construction/ Pre-Commissioning, Power Block Commissioning to Client/Owner Handover. Subsequently this required to independently develop and improve the current Systems Completions processes in order to successfully achieve project milestones. Develop and manage OM Handover Walk-Downs, schedule and support team planning based on turnover from startup. Interfaced with the operating organizations, to determine specific requirements regarding preparation/acceptance for Final Handover and guided multi-disciplinary team "Core-Group" of 20+ members for the execution of Commercial Operation Systems Turnover. The successful completion/turnover was contributed to ensuring that all Joint Ventured and Client Representatives were notified for all turnover activities well in advance.

### Shanahan Engineering

Start-Up / Commissioning Systems Turnover (GE Rep./ Owner liaison)  
October 2010 - January 2011 (4 months)

Surgut, Russia

Shanahan Engineering / Start-Up - Commissioning Systems Turnover (GE Rep./ Owner liaison)

New Construction Combined Cycle 800MW Plant Facility Surgut, (Siberia)  
Russia

MAJOR EQUIPMENT: 2 - GE Frame 9FA's, 2 D11 Steam Turbines and 2 CMI  
- EPTI, (HRSG)

Developed/created processes to better streamline the over-all system turnovers. The procedures developed were very basic in nature thus, allowing for better adherence to the new process. The new process involved construction and commissioning disciplines to personally engage themselves in reviewing their respective portions of each sub-system requiring their signature as being mechanically complete, denoted in a turnover log. Weekly reports were submitted to GE Project Manager, Site Manager, and Commissioning Manager. Items tracked in these reports identified project required systems, accepted, rejected, under review, staged (up-coming based on system priority), system breakout - Unit #'s, Client Owned, Common, and so forth. Coordinate with GE and Gama regarding to the Turnover package for its Content. Monitor completion status for system(s) and Sub-system(s)

based on pre-commissioning/Commissioning schedule. Tracked and reviewed all Turn-Over Packages for Mechanical Completion sign-off for accuracy and completeness of documentation for turnover to the client.

### ProEnergy Services

Start-Up / Commissioning Systems Turnover (EPC, Contractor)

April 2010 - August 2010 (5 months)

Venezuela

ProEnergy / Start-Up / Commissioning Systems Turnover

New Construction 250 MW Aero-Derivative Power Plant, Venezuela

MAJOR EQUIPMENT: Pratt & Whitney FT8 Swift Pac's & GE LM6000

Interface with Construction, Start-up and Commissioning Groups. Provide assistance on contractual aspects to the construction group for preparation of short term schedules in support of successful completion and turnover of the systems to the Commissioning and Start-up Group. Provide direction for the construction group ensuring proper documentation is captured for each system turnover package. Additional Duties were to kick off the LOTO program, which resulted in my personally spearheading the program until we achieve provisional acceptance to the owner. The LOTO program is consistent with Industry standards such as; Verify safety tags and locks are in place on system boundaries before signing off the turnover package. Track the completion of all outstanding punch list items, adopting a "done-done" philosophy. Organize and maintained system turnover packages tracked turnover performance and reviewed the results with the Construction Manager and the Start-Up Manager. Routinely provide assistance required to support startup efforts ensuring compliance with the associated specifications, resulting in an efficient and timely system turnover to the client.

### TVA

Rotating Equip. Lead / Systems Turnover - (Owner's Rep.)

August 2009 - April 2010 (9 months)

Brownsville, TN

TVA / Rotating Equipment Lead / Systems Turnover - (Owner's Rep)

New Construction 582 MW Combine Cycle Power Plant-Brownsville, TN

MAJOR EQUIPMENT: Mitsubishi 501F Gas Turbines, GE-D-11 Steam Turbine, Nooter/Eriksen HRSG, GE Generator

Provide single point contact ensuring that construction requirements were made known to the Construction Manager. Act as a liaison to EPC Contractor Construction Activities and other members of the TVA Project Team plus, provide Document Control with as built information. Review of project specifications and manufacturer installation procedures. Review contractors ITP plan to establish communication of witness and testing points. Monitor quality documentation, checks and procedures, assist contractor with technical guidance including auditing of stored materials and equipment for adherence to proper short/long-term storage and maintenance procedures. Ensure that the location and manner of installation of all newly installed rotating equipment items are satisfactory and in accordance with requirements and recommendations provided by vendors, maintain reports for all. Provide technical data and assist contractor with corrective measures addressing potential unforeseen problems and minor/daily issues. Perform final walk downs of completed rotating equipment installations for compliance to site specifications and drawings. Respond to the needs of the Project Team in accordance to TVA's Standards and Specifications in relation to Systems Turnover Packages with the Washington Group Contractor coupled with commissioning activities and Start-up procedures. Performed system walk downs required for mechanical completion. Track the categorization completion of all exception items. Participate in site meetings with contractor and TVA project team members, and report as required on the updated status of up-coming system turnovers.

### Progress Energy

Systems Turnover / Rotating Equip. Lead - (Owner's Rep.)

October 2008 - July 2009 (10 months)

Crystal River, FL.

Progress Energy - Systems Turnover / Rotating Equip. Lead (Owner's Rep)

FGD – 1.5B Wet Scrubber Flue Gas Desulphurization Project Crystal River, FL.

MAJOR EQUIPMENT: Howden Buffalo L3N Size 3786 DWDI – ID-Fans

Track progress of assigned systems and provided Startup Manager with a weekly report of such progress and activities. Coordinate and monitor vendor representative's work, charges, and documentation on a daily basis. Performed construction process assessments during system walk-downs and identify exceptions and deficiencies. Assist in commissioning and testing of individual components, systems, and stations as a complete

integrated unit to meet all contractual obligations. Performed specific functions normally performed by the Start Up Manager when designated by the Start Up Manager. Perform all other duties as assigned by the Startup Manager. Interface with the G&TC Project Team on critical issues associated with system turnovers. Guide EPCR and Burns & McDonnell through the Progress Energy's G&TC Turnover Process. Facilitate exception categorization with the G&TC Project Team. Ensure that all Turnover and Quality documents are captured and processed in accordance with Progress Energy's Turnover Process. Liaise with Document Control Field office to ensure that standards are adhered to as well as maintained.

### ProEnergy Services

Start-Up / Commissioning Systems Turnover (Rep. for Worley Parsons, Contractor)

July 2008 - September 2008 (3 months)

Hadley Massachusetts

ProEnergy Services / Start-Up / Commissioning Systems Turnover  
(Representative for Worley Parsons)

New Construction \$118M Central Heating Plant Project - Hadley  
Massachusetts

MAJOR EQUIPMENT: MFG: Caterpillar - Solar Mars 100 Gas Turbine  
Generator Set kWe 10,695

Provide Start-up/Commissioning Support / Turnover Package Management. Validate existing/new systems and provide support in-order to maintain const. to comm. turnover documentation integrity. Phase 1) Restructured/ design turnover packages by implementing industry standard format; STP's, Revamped SOP's contents with the aid and support of the Commissioning Manager, Operator Supervisors and I&C Technicians to name a few. Phase 2) Developed a strong interface with the EPC which allowed the opportunity to track down and identified all responsible parties (sub-contractors) as to where the original construction documentation where housed. Reviewed/Managed EPC's Start-Up file system and monitored construction data (components/ equip.) for Turnover Acceptability. This process required daily verbal/electronic communications between, sub-contractors, EPC, owner reps. and plant operators. Provide the client with an enhanced turnover package infrastructure to meet their regulatory requirements for the facility turnover process.

Progress Energy

Mechanical Lead / Commissioning Support, Systems Exceptions -  
(Owner's Rep.)

January 2007 - May 2008 (1 year 5 months)

Roxboro, NC

Progress Energy / Mechanical Lead / Commissioning Support, Systems  
Exceptions - (owner representative)

FGD – 870M Wet Scrubber Flue Gas Desulphurization Project - Roxboro, NC

MAJOR EQUIPMENT: Flaktwood AF-6310A – ID-Fans 1,111,000 ACFM,  
Flaktwood 2490 DYW Booster Fans 621,000 ACFM

Oversee the following; (but not limited to) reviewing of project specifications and manufacturer installation procedures, review contractors ITP plan to establish communication of witness and testing points, monitor quality documentation, checks and procedures, assist contractor with technical guidance including auditing of stored materials and equipment for adherence to proper short/long-term storage and maintenance procedures. Ensure that the location and manner of installation of all newly installed rotating equipment items are satisfactory and in accordance with requirements and recommendations provided by vendors. Maintain reports for all. Provide technical data and assist contractor with corrective measures addressing potential unforeseen problems and minor/daily issues. Perform final walk downs of completed rotating equipment installations for compliance to site specifications and drawings. Track/Monitor all Systems Turned-Over to Commissioning Dept. / Punch-list / Exceptions. Participate in meetings relative to sub contracts, site quality problems, and schedules as required by Site management as well as coordinating as needed on technical issues with the PCD Project Lead Mechanical Engineering.

PIC-Energy Group

3 years

Turbine Services Manager (Project Mgmt.)

2005 - 2006 (1 year)

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Corporate Operations Manager

2003 - 2005 (2 years)

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Progress Energy

Site Mechanical Engineer - (Owner's Rep.)

2001 - 2003 (2 years)

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L-Con Inc. Engineers / Constructors

Millwright Superintendent

1995 - 2001 (6 years)

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IDAB-Incorporated

Machinist Supervisor

1992 - 1995 (3 years)

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Dresser-Rand

Field Service Technician / Machinist

1985 - 1990 (5 years)

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Horne Brothers Shipyard

Field Machinist (1st Class Mechanic) / Structural Foreman

1982 - 1985 (3 years)

Newport News, Va

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## Education

Wake Technical Community College

Associate / Applied Science, Automation/Robotics Technology · (1993 - 1995)

Thomas Nelson Community College

Cert., Computer Aided Design Auto-Cad 11 · (1994 - 1994)

J. Sargeant Reynolds Community College

Cert., Microcomputer programming and Applications · (1992 - 1992)

Thomas Nelson Community College

Cert., Architectural Drafting · (1986 - 1986)

Bell & Howell

Certs., modern electronic components and techniques. · (1978 - 1983)

