

DEGA ENGINEERING

STATEMENT OF QUALIFICATIONS

DEGA ENGINEERING
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INTRODUCTION

Dega Engineering was established in 1993 by Joseph C. Dieckert to provide Mechanical, Electrical and Plumbing design for public and private entities. An alliance with an architectural associate Rick Ravey was later formed to provide turn key design solutions for building related facilities. Though we primarily design facilities for institutional and commercial clients we also design power and process control systems for industry. Client facilities types include:

- Industrial
- Commercial
- Institutional/Governmental
- Medical
- Research Labs



Located in Bryan, Texas, Dega Engineering is close to many central Texas facilities thus aiding timely project coordination and completion. Dega Engineering prides itself on customer satisfaction.

PROJECT DEVELOPMENT

We have established guidelines for the development of a project which include:

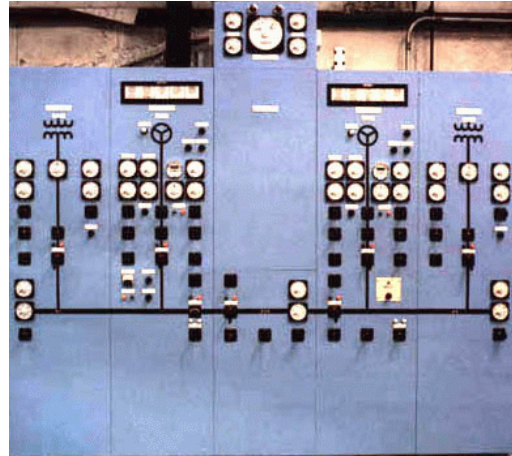
- Familiarization with Client and Hours of Operation
- Review of Electrical Requirements
- Building & Site Evaluation
- Development of Design Criteria and Schematics
- Assist Construction Manager with Development of Budgets
- Prepare Pre-purchase Specifications If Required
- Complete the Contract Documents (Plans and Specifications)
- Provide Quality Control Review of All Engineering Documents
- Interview Contractors and Subcontractors Prior to Award
- Assure That All As-built Drawings Are Completed
- Prepare Punch List
- Completion and Client Move-in

CLIENTS

- Texas A&M University Physical Plant
- R.E.C. Industries, Inc.
- ZTT Minerals, Inc.
- C&S Air Conditioning
- Amoco Oil Company



- Norton Chemical Process Products Company
- Texas A&M University Facilities Planning and Construction
- West Texas A&M University
- OI Analytical
- Koppers Industries
- Southcorp Manufacturing
- St. Joseph Hospital



CERTIFICATIONS, LICENSES AND REGISTRATIONS

- State of Texas Registered Professional Engineer #65108, Joseph C. Dieckert
- State of Texas Class “A” Environmental Air TACLA018884C
- Master Electrician Licenses - BML-125, EM-205

REFERENCES

We offer the following references for their knowledge of projects and quality of the work performed by DEGA Engineering:

CLIENT	PROJECT	CONTACT
Synfuels International Ztt Minerals, Inc	Gas->Liquid Pilot Plant Zinc Extraction Facility	Dr. Joel Cantrell(979)778-2999 Don Willis, (979) 776-6207, XT.30 Plant Manager
Texas A&M University	Physical Plant Projects (all)	Homer Bruner, Energy Manager, Mechanical Systems Specialist (979) 862-715
Texas A&M/Corpus C.	Commissioning	Oscar Contreras, Plant Manager (361)825-2412
R.E.C. Industries, Inc.	Commissioning	Scott Cook, Vice President (979) 776-8245
OI Analytical	New Production Facility	Johnny Glover (979)690-1711
Southcorp Manufacturing	Numerous Projects	Harold Nichols, Plant Engineer (979)779-5900
Koppers Industries	Numerous Projects	Dave Shaw, Plant Manager (979) 596-1321

RECENT PROJECTS

- MEP Design - Project Duration: 1996-Current
Dozens of renovations of class rooms, server rooms, labs, training facilities, production facilities, kitchens, clean rooms etc.
Texas A&M University, Attn: Tilson Casey
Physical Plant
College Station, TX 77843-1371
Phone:845-5318 Fax: 862-4635
- Natural Gas to Liquid Pilot Plant - Project Duration: 2000-Current
1.25 MW Plant Power System,
Plant Control and Emergency Shutdown Systems
Synfuels International, Inc.
200 Crescent Court
Dallas, Texas 75201

Duties: Engineered, installed and commissioned 1.25MW plant power system.
Engineered, installed and commissioned plant process control systems and emergency plant shutdown system.
- MEP Design - Project Duration: 2007-Current
Plant Employee shower and weight room facility
Zero/Six Consulting
Attn: Bill Coltzer
PO Box 3690
Galveston, TX 77552-3690
Phone: 409-740-0090
Fax: 409-740-0554
- MEP Design - Project Duration: 2005-2007
Scores of renovations and build-outs of office space and medical offices..
Area Wide Mechanical, Attn: Dean O'Brien, Manager
1702 Ponderosa
College Station, TX 77845
Phone:764-7648
Fax: 693-6436
- Center for the Sciences & - Project Duration: 2003, 8 months
Chiller Plant
HVAC Systems Commissioning
Texas A&M University Corpus Christi
Corpus Christi, TX 77840
- Energy Conservation Initiatives Project Duration: 1996-1998
Commission Primary Hydronic Metering Systems for 50 Buildings
Texas A&M University Planning and Construction
UMS Box 1586

College Station, Texas 77840

Duties: Helped train University employees and other consultants. Performed commissioning and troubleshooting of air and hydronic systems for 50 buildings. Performed building mechanical engineering audits on two Langford Architecture and BSBW buildings.

- HVAC Renovations - 18 Buildings Project Duration: 2002, 12 months
HVAC Systems Commissioning
Texas Department of Criminal Justice
Rt. 1 Box 150
Tennessee Colony, Tx. 75884

Systems commissioned included constant volume air handlers and duct systems.

- Western Hemispheric Trade & Student Development Centers Project Duration: 2001, 18 months
HVAC Systems Commissioning
Texas A&M University Laredo
Laredo, TX 77840

Systems commissioned included hydronic, variable and constant volume supply, exhaust and building automation systems.

- New Athletic Complex Project Duration: 2003, two years
HVAC Systems Commissioning
Texas A&M University Planning and Construction
UMS Box 1586
College Station, Texas 77840

Systems commissioned included all building HVAC systems.

- Building HVAC Assessments Project Duration: 2002, Six Months
HVAC Systems Commissioning
Dow Chemical Company
Freeport, Tx.

Systems commissioned included constant and variable volume supply and exhaust systems for 19 buildings.

RESUMES

JOSEPH C. DIECKERT, P.E. **General Partner /Principal Engineer**

Mr . Dieckert is Licensed, Certified and Responsible for complete systems design, balancing and commissioning for all types of HVAC electrical and control systems. Has conducted air quality, energy utilization and operating cost studies for all types of buildings and complexes. Has conducted performance tests on air handlers, fans, duct systems, hydronic systems, chillers, boilers, compressors, pump and laboratories. Has handled lead MEP design responsibilities for many types of facilities.

Mr. Dieckert also has 21 years experience in all phases of electrical and control engineering for industrial, manufacturing, commercial and municipal facilities, including design engineering, project engineering, project planning, project coordination and system commissioning. Hands-on field experience includes construction monitoring and start-up assistance of electrical, control and HVAC systems. Mr. Dieckert is an engineer with a wide background covering all areas of electrical, controls and HVAC systems development and implementation.

He has also designed, installed and commissioned all process plant power and control systems for an experimental pilot natural gas to liquid conversion plant.



Assumed lead electrical engineering responsibilities for several systems at a multimillion dollar plant revamp project. Projects included redesign of emergency generation configuration and tie-

in systems, redesign and expansion of plant switchboards and MCCs, development of plant load schedules and diversity factors, area classifications studies, redesign of electrical motor and burner control systems, coordination, short-circuit and load flow studies, and general oversight of complete design effort.

Responsible for internal coordination of commercial software development for electrical systems sizing, simulation, design and construction cost estimating, coordination of protection devices, load and short-circuit analysis, voltage drop, cable ampacity, power factor analysis, lighting, motor starting, load profile, equipment loading, and electrical energy auditing. Has conducted numerous electrical systems studies for commercial and industrial facilities.

Designed and patented control systems for monitoring and control of laboratory air flow including prototype testing and problem resolution. Developed specialty testing devices for prototype development and production.

Systems design, installation and administration for secure corporate networks. Software engineering for analysis and interface development for digital logging, reporting and analysis system for performance monitoring on a large-scale installation of electronic airflow and temperature control systems components. Other experience and responsibilities include software engineering for database applications.

EDUCATION

B.S., Electrical Engineering, Texas A&M University, 1983
Mechanical Engineering Graduate Studies, Texas A&M University
Numerous NEBB Certification Seminars and Courses

PROFESSIONAL LICENSES AND MEMBERSHIPS

Registered Professional Engineer, Texas No. 65108
Texas Class A Mechanical License TACLA018884C
National Environmental Balancing Bureau Certified TAB and Building Commissioning Supervisor #3128
Licensed Master Electrician, City of Bryan and College Station, Texas
Institute of Electrical and Electronic Engineers Member since 1980

PUBLICATIONS

"On-Site Chiller Testing," ASHRAE Journal, April, 1990; Dr. Swiki A. Anderson and Joseph C. Dieckert
Building MEP designs, commissioning and engineering studies too numerous to list.

PATENT

Nonlinear Laboratory Airflow Control System, No. 5,205,783

HOWARD RABINOWITZ
Project Manager

Mr. Rabinowitz is a licensed electrician and Responsible for electrical and controls systems design, plan checking, and commissioning for all types electrical and control systems. He has over 20 years experience in installation management, electrical design and installation. Significant projects Mr. Rabinowitz has participated in include:

TRANSCO TOWER, Houston, Tx. 65 Story office building.
Niel Recreation Center, a 20,000SF gym. classroom building.
Houston Transit Authority Buildings
George R. Brown Convention Center, Houston, Tx.
Numerous TAMU Lighting and other projects through Alpha Building Corporation
Maintenance Contracts with National Department Store Chains.
Natural Gas Experimental Pilot Plant, Synfuels International, Bryan, Tx.

EDUCATION

Electrical Training Center (NJATC), Houston, Tx. 1982-1986
Outstanding Apprentice Award, Perfect Attendance Award, Electrical Theory, National Electrical Code, Motor Controls, Semiconductors, First Aid and CPR.

LICENSES

City of Bryan Master Electrician, #131
City of College Station Master Electrician, #EM-214
City of Brenham Master Electrician, #M-1278

DEAN A. TRIBBEY**Senior Technician, Project Manager**

Mr. Tribbey has 30 years of mechanical, electronic, controls and process related experience. He is responsible for design, installation and calibration of process equipment, instrumentation and power systems.

Projects

Built and Managed Benchscale gas cracking unit. I operated the unit for the Engineers, collecting data, ordered supplies and maintained the Lab.

Schlumberger Technology Corp, Manufacturing Equipment

Ripple* Tray, Ethylene Cracking Unit Pilot Plant

Stone & Webster, R&D Facility

Omni Testing Lab, Houston, Tx.

Education

Business Management - Blinn Jr. College, Bryan, Texas, - 1989

Computer Programming, Basic & Pascal - Blinn Jr. College, College Station, Texas, - 1985

Institute of Electronic Science - Texas A&M University, College Station, Texas - 1978-1980

General Academic - Blinn Jr. College, Bryan, Texas - 1972

Training

NC Turning Machines Programming

The Monarch Regenerative Drive

McDonnell Douglas Actrion III

C-band Satellite installation

Security and audio video installation

AC & DC motor drive repair

Industrial safety training

JACK E. COOK
Technician

Mr. Cook brings decades of experience in management, direction and oversight of skilled and semi skilled craftsmen. He is proficient in all areas related to operating and maintaining facilities and equipment ranging from contract compliance to work assignments.

Projects

Base Support Supervisor
Chugach McKinnley, Inc. Shamy Island, AK

Managed the operation and maintenance of U.S. Air Force infrastructure assets, including building envelope, physical plant, boilers, air handlers, controls, distribution systems, fire suppression, roads, water, wastewater, power generation and emergency response. Managed 25 electricians, HVAC technicians, plumbers, maintenance workers, janitors, production clerks and an engineer including performance reviews, safety training, scheduling, and execution of projects. Provided quality control services for work to ensure compliance with drawings, specifications, codes and ordinances.

Maintenance supervisor 1989 - 1998
Anchorage Int'l Airport, Anchorage, AK

Supervised the operation and maintenance of airport physical plant including boilers, burners, chillers, air handlers, controls, distribution systems, fire suppression systems, access controls, escalators, elevators, conveyor belts, overhead doors, electronic/pneumatic DDC controls, plumbing and the building interior and exterior envelope. Provided on-going safety and job specific training to a crew of 15 skilled craftsmen including electricians, electronic technicians, HVAC mechanics, plumbers and general maintenance workers. Coordinated vendors, contractors and government agencies providing technical and site specific information. Provided planning, remodeling and retrofit projects specific to HVAC systems technology and innovations.

Training & Education

Air conditioning and refrigeration mechanic certification
Texas A&M University, College Station, Tx.
40 Hour haswoper certification
8 hour confined space entry certificaion
10 hour osha training certification
ISO 9001: 2000 implementation certification
NAC security clearance