

Mark R. Curtis

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SUMMARY: Over thirty four years of experience in ammonia refrigeration engineering, contracting, education, service, equipment and parts sales to the cold storage, fruit, meat and poultry, dairy, beverage, and chemical industries.

EXPERIENCE:

Ammonia Refrigeration Engineering and Safety Co., Kennesaw, Georgia

Principal

May 1999 to Present

Lanier Technical College, Oakwood, Georgia.

January 2007 to June 2007

Faculty/Refrigeration Instructor

Accomplishments:

- Developed and wrote curriculum for Advanced Ammonia Refrigeration coursework.
- Taught industry-oriented professional courses and laboratories on industrial ammonia refrigeration.

The Facility Group, Inc., Smyrna, Georgia

February 1995 to June 1999

Senior Refrigeration Engineer

Accomplishments:

- Engineered systems for installation.
- Reviewed department engineering and drawings prior to release.
- Supervised junior engineering staff.
- Calculated refrigeration loads for clients' facilities.
- Developed energy audits for existing refrigeration systems.
- Wrote specifications for refrigeration systems, refrigeration controls, insulation, and related items.
- Developed OSHA 29 CFR 1910.119 Process Safety Management and EPA 40 CFR68 Risk Management implementation for clients' systems.
- Taught facility-specific classes for OSHA-required training at customer facilities.

Mechanical Refrigeration Corp., Sioux City, Iowa.

November 1993 to January 1995

Chief Engineer/Senior Refrigeration Engineer

Accomplishments:

- Initiated sales and marketing of refrigeration equipment and systems.
- Supervised engineering and drafting staff.
- Supervised installation and construction of refrigeration projects.
- Calculated refrigeration loads for clients' facilities.
- Developed budgetary guidelines and pricing for projects.
- Engineered systems for installation.
- Had full charge of project management.
- Developed OSHA 29 CFR 1910.119 Process Safety Management implementation for clients' systems.
- Taught plant-specific classes for OSHA-related training at customer facilities.

Power Refrigeration Co., Hayward, California.

1978 to 1993

Senior Refrigeration Engineer/Project Engineer

(December 1984 to November 1993)

Accomplishments:

- Initiated sales and marketing of refrigeration equipment and systems.
- Calculated refrigeration loads for clients' facilities.
- Developed budgetary guidelines and pricing for projects.
- Engineered systems for installation.
- Had full charge of project management.
- Performed service and troubleshooting of clients' systems.
- Engineered electrical control system.
- Completed drafting package for projects.
- Developed drawings and specifications of after-market compressor parts.
- Developed advertising campaigns for parts and for contracting businesses.
- Authored technical articles on ammonia refrigeration that were printed in trade publications.

Student Engineer/Assistant to Parts and Service Department

(1978 to December 1984)

Accomplishments:

- Assisted engineers with projects.
- Managed parts department during extended leaves of parts manager.
- Followed local sales leads.
- Dispatched service technicians and construction personnel.
- Performed systems installation.
- Performed service and rebuilding services of refrigeration equipment.
- Performed service and troubleshooting of clients' systems.

College of the Sequoias, Visalia, California.

January 1990 to November 1993

Adjunct Faculty/Refrigeration Instructor

Accomplishments:

- Developed and wrote curriculum for ECT 200, Basic Ammonia Refrigeration and ECT 201, Advanced Ammonia Refrigeration.
- Taught industry-oriented professional courses on industrial ammonia and commercial "Freon" refrigeration.

Various Professional Teaching Engagements.

February 1991 to Present

Accomplishments:

- Taught seminars and on-going classes on a voluntary basis for The Refrigerating Engineers and Technicians Association. These were on various topics including: rebuilding Vilter reciprocating compressors, rebuilding Mycom screw compressors, ammonia safety, PSM, RMP, basic refrigeration, ammonia piping, piping codes and regulations, and piping practices.
- Taught plant-specific classes as a part-time consultant for OSHA-required training at ammonia refrigeration clients' facilities on all aspects of the refrigeration system.

EDUCATION:

California Polytechnic State University, San Luis Obispo, California. Bachelor of Science - Engineering Technology/Refrigeration and Air Conditioning, 1984.

Coursework and areas of study include:

- Mechanical Engineering basics.
- Basic refrigeration and heating.
- Advanced courses in refrigeration and air conditioning.
- Heat exchanger design.
- HVAC and ductwork design.
- Refrigeration, Building, Plumbing, and Mechanical Codes.
- Junior HVAC design class.
- Senior Refrigeration Design Class
- Class project: design and build small-scale ice skating rink for college open house.
- Senior project: build, test, and evaluate an "Air Washer" type heat exchanger to compare parallel-flow vs. counter-flow configurations.

PROFESSIONAL TRAINING:

Frick Company, Industrial Refrigeration Engineering School, June 1985.

American Institute Of Chemical Engineers, EPA RMP and OSHA PSM Training, November 1996

PROFESSIONAL AFFILIATIONS:

Refrigerating Engineers and Technicians Association, Retired National Board Member, Past Chapter President