



# ColdWorks Engineering

Refrigeration Engineering Consulting and Expert Witness Services  
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**Eduardo A. Ford, P.E.**  
Principal

## Professional Experience

50+ years of Industrial Refrigeration experience ranging from Applications Engineering support for Multistage Centrifugal Refrigeration Systems, to Design of Custom-Built Packaged Refrigeration units for Chemical and Petrochemical Applications, to Execution and Management of Anhydrous Ammonia Refrigeration Capital Projects for a major industrial refrigeration OEM, two major end-user food companies, and one of the largest industrial refrigeration contractors in the State of California. Most recently, 15+ years, Owner/Principal of ColdWorks Engineering, a Consulting and Expert Witness Practice providing consulting engineering services to major food and beverage companies and litigation support to attorneys representing plaintiffs and defendants in cases involving industrial ammonia refrigeration systems.

## Certifications & Affiliations

Registered Professional Engineer (Mechanical) - California: Cert. No. 32280  
National Council of Examiners for Engineering and Surveying (NCEES): Cert. No. 21476  
Life-Member: International Institute of Ammonia Refrigeration (IIAR)  
Life Member: American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)  
Past-Member: Board of Directors, Refrigerating Engineers and Technicians Association (RETA)  
Past Member: IIAR Standards Review and Code Committees (1992-to-date)

## Experience Highlights

- 1970 - 1982 Industrial Refrigeration Specialist, *Carrier International Corporation*.
- 1982-1985 Vice President / Project Engineer, *Peard Refrigeration Engineering Inc.*  
One of three (3) Principals responsible for the design, engineering and fabrication of custom-built packaged refrigeration units for Chemical and Petrochemical applications.
- 1985-2000 Senior Manager, Freezing Systems and Utilities Engineering, *Campbell Soup Company*.  
Executed anhydrous ammonia refrigeration capital projects from concept to completion, including: feasibility studies, new construction, plant expansions and upgrades. Ultimately was responsible for the corporate refrigeration engineering function supporting global manufacturing operations.
- 2000 - 2001 Manager, Corporate Refrigeration Engineering Group, *Tyson Foods*.

- 2001 - 2005 Director of Engineering, *Applied Process Cooling Corp. (APCCO)*.  
Largest industrial refrigeration contractor in the State of California. Supervised engineering design for all categories of food plants in the State of CA and at times, outside the State of CA; e.g., Safeway, Denver Distribution Facility.
- 2005-2014 Principal, *ColdWorks Engineering Inc.*,  
Performed consulting engineering services to major food and beverage companies in the Central Valley, and, Northern and Southern California. Partial client list included but was not limited to: Beringer Vineyards, Columbus Foods, ConAgra, Del Monte, Dryers Ice Cream, Foster Farms Dairy, Miller-Coors Brewery (Irwindale), PG&E (Gateway), Unilever Foods, and WinCo Foods.
- 2014-to-date Owner/Principal, *ColdWorks Engineering*.  
Consulting and Expert Witness Practice.

#### **Publications & Presentations**

- *An Overview and Comparison of Refrigeration Model Codes*, IIAR Annual Conference, March 2004.
- *Refrigerant System Charge Calculation; Do I Calculate or Pump-Down The Plant?* RETA Annual Conference, Sept. 2008.
- *Mechanical Integrity Inspections of Ammonia Refrigeration Systems*, Central Valley Chemical Safety Day (CVSD) Annual Conference, March 2010.

#### **Education**

- B.S., California Polytechnic State University (Cal Poly), San Luis Obispo, CA.