



WAGNER-MEINERT LLC
Engineers – Contractors
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Refrigeration & HVAC
Mechanical & Plumbing
Food Process
PSM-RMP & Safety Services
Controls & Automation
Planned Maintenance

ARM (Ammonia Refrigeration Management) Program Development and Maintenance

Wagner-Meinert, LLC has developed an extensive implementation and maintenance program for Ammonia Refrigeration Management Programs

Implementation Program:

1. Develop a Management System strategy
 - A. Draft Policy
 - B. Draft Responsibility Flow Chart
 - C. Draft Information Request Form
 - D. Draft Definitions List
2. Refrigeration System Documentation
 - A. Draft Policy
 - B. Perform a Maximum Intended Inventory Calculation
 - C. Develop Refrigeration Flow Schematics
 - D. Develop Refrigeration Plan Views
 - E. Develop a Refrigeration Equipment List
 - F. Establish Operating Ranges
 - G. Document Safety Systems (Incorporated in the Operating Procedures)
 - H. Develop the Relief System Capacity Calculation
 - I. Develop the Ventilation System Capacity Calculation
 - J. Compile Operation and Maintenance Manuals
 - K. Acquire Manufacturer's Data Reports and Certified Drawings for Vessels, heat Exchangers, and other ASME certified components
 - L. Draft Master Document List
3. Operating Procedures
 - A. Draft Policy
 - B. Draft Operating Procedures
 - C. Develop System Rounds Log
 - D. Review Referenced Safe Work Practices
4. Preventative Maintenance Program
 - A. Draft Policy
 - B. Develop Preventative Maintenance (PM) List and Schedule.
5. Contractor Program
 - A. Draft Policy
 - B. Develop Approval Forms
 - C. Compile List of Approved Contractors
 - D. Develop Site Rules for Contractors

6. Emergency Response Program
 - A. Draft Policy
 - B. Develop an Emergency Action Plan
 - C. Draft a Letter of Coordination with Off-site Responders
7. Incident Investigation Procedures
 - A. Draft Policy
 - B. Develop Investigation Forms
8. Training Program
 - A. Draft Policy
 - B. Develop Training Documentation
 - C. Conduct Training
9. Hazard Review Procedures
 - A. Draft Policy
 - B. Conduct a Hazard Review
 - C. Conduct a Site Security Analysis
 - D. Develop Follow-up Forms
10. Refrigeration System Change Procedures
 - A. Draft Policy
 - B. Develop Change Forms
11. Additional Items
 - A. Valve Labeling
 - B. Pipe Labeling
 - C. Equipment Labeling
 - D. Annual Ammonia Inspection
 - E. Mechanical Integrity Inspection
 - F. Pre-Startup / Pre-Charging / Decommissioning