



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

**PSM / RMP (Process Safety Management / Risk Management)  
Program Development and Maintenance  
for Ammonia Refrigeration systems 10,000 #’s maximum operating capacity and over.**

Wagner-Meinert, LLC has developed an extensive development and maintenance program for Process Safety and Risk Management Programs

Implementation Program:

1. Employee Participation
  - A. Policy Development
  - B. Form Development
2. Process Safety Information
  - A. Policy Development
  - B. Compile Equipment Information
  - C. Develop Process Flow Schematics
  - D. Develop Refrigeration Floor Plan
  - E. Perform an Ammonia Inventory Calculation
  - F. Assign and Document Valve Numbers
  - G. Develop Process and Instrumentation Diagrams
  - H. Develop a Complete Valve List
  - I. Develop a Block Flow Diagram
  - J. Tag Ammonia Refrigeration Valves
  - K. Document Engine Room Emergency Ventilation System
  - L. Document the Relief System Capacities
  - M. Material and Energy Balance
  - N. Pipe Labeling
  - O. Equipment Labeling
3. Process Hazard Analysis
  - A. Policy Development
  - B. Form Development
  - C. Conduct a Process Hazard Analysis (Every 5 Years)
4. Operating Procedures
  - A. Develop Standard Operating Procedures for Ammonia Equipment
  - B. Draft Policy for Opening the Refrigeration System

5. Training
  - A. Policy Development
  - B. Form Development
  - C. Conduct Training – Multi-Level (Annual and Every Three Years)
6. Contractors
  - A. Policy Development
  - B. Form Development
7. Pre-Startup Safety Review
  - A. Policy Development
  - B. Pre-Startup Safety Review Form Development
  - C. Pre-Charging Form Development
8. Mechanical Integrity
  - A. Policy Development
  - B. Compile Operation And Maintenance Manuals
  - C. Develop Log Sheets
  - D. Mechanical Integrity Inspections (Every 5 years)
  - E. Annual Ammonia Inspections (Yearly)
9. Hot Work Permit
  - A. Policy Development
  - B. Form Development
10. Management of Change
  - A. Policy Development
  - B. Management of Change Form Development
  - C. Decommissioning Form Development
11. Incident Investigation
  - A. Policy Development
  - B. Form Development
12. Emergency Planning and Response
  - A. Policy Development
  - B. Form Development
  - C. Draft Support Personnel Entry Policy
13. Compliance Audits
  - A. Policy Development
  - B. Form Development
  - C. Compliance Audits (Every 3 Years)
14. Information Dissemination / Trade Secrets Policy
  - A. Policy Development
  - B. Form Development
15. Additional Risk Management Requirements
  - A. Policy Development
  - B. Release Modeling
  - C. Accident History
  - D. Plan Submittal (Every 5 Years)
16. Department of Homeland Security: Chemical Facility
  - A. Policy Development
  - B. Registration