

“OUR REPUTATION IS OUR FUTURE”



WAGNER-MEINERT LLC

Engineers – Contractors

260-489-7555

**SAFETY
SERVICES**

COMPLETE SAFETY SERVICES

Training
Team Leadership
Program Management
Mechanical Inspections
Process Hazard Analysis
Auditing
RMP Submittals, Etc.

Your Total Compliance Provider

**Training
with
Purpose**

Specializing in Compliance for

**OSHA General Industry – OSHA Construction Safety – Process Safety
Management – EPA’S Risk Management – Ammonia Refrigeration
Management –**

**Ammonia Refrigeration Management Low Charge –
DHS’s Site Security Standard – OSHA Construction Safety –
Wastewater – CFC and HCFC Refrigerants**



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7617 Freedom Way
Fort Wayne, IN 46818
Phone: 260-489-7555
Fax: 260-489-7473

Refrigeration & HVAC
Mechanical & Plumbing
Food Process
PSM-RMP & Safety Services
Controls & Automation
Planned Maintenance

The Wagner-Meinert LLC Safety Services Group is a team of dedicated Compliance Professionals, who constantly strive to provide the best in compliance, inspection, auditing, and training services.

This marks our 29th year of providing compliance assistance. We believe that the path to compliance is a continuous journey on a constantly changing road.

Our services have steadily expanded since the inception of our group. Initially the need for training was paramount. This quickly changed to encompass program development. This was followed by a need for Mechanical Integrity Inspections and auditing. Currently the need for team leadership is our most sought-after service. Whether the team is a PSM / RMP Team, ARM Team, or Plant Safety Team, Wagner-Meinert LLC is committed to providing the best leadership assistance possible.

Our expert team assists clients with all aspects of safety and compliance. Ammonia Refrigeration, while forming the backbone of our compliance services, is becoming a part of a broader safety and compliance system as facilities seek total safety and compliance integration.

We offer NATE Certified exams. The combination of RETA based courses, RSES Courses, NATE certifications, and RETA Certifications allow for Wagner-Meinert to fulfill the training needs across the entire HVACR industry.

In the following pages we will outline the majority of the compliance services we provide. However, should you recognize a need in the area of OSHA, EPA, or DHS compliance please contact us. We can help!

Additional information concerning our services is available on our website: <http://www.wmi-safety-services.com/about.html>. Our course catalog is also available.

Wagner-Meinert's other groups offer complete Ammonia Refrigeration Construction and Service. Our Controls group provides control specialized services for a wide array of industries. Additional information is available at: <http://www.wmillc.com>

Sincerely,
Wagner-Meinert LLC

General Industry Safety Program Development / Contract Safety Director (CSD)

The main goals of a Safety and Health Program is to provide a safe place to work and prevent injuries and illnesses. The financial hardship these events cause is felt by the worker's family, the company, and the workforce. Wagner-Meinert LLC has developed a Safety Program Development program to help companies with OSHA regulations. A Contract Safety Director (CSD) Program is designed to augment an existing safety program or establish a safety program from scratch.

Contract Safety Director Program

1. OSHA Recordkeeping

- A. Establish a Safety Document filing system
- B. Audit OSHA 300 and 300A Logs
- C. Assist with OSHA's new electronic filing system
- D. Conduct incident report reviews

2. Corporate Safety Manual

- A. Draft Company Safety Policies
- B. Draft Company Health Programs
- C. Draft Company Compliance Programs
- D. Draft Company Safe Work Practices
- E. Draft an Employee Handbook

3. Facility Safety Review

- A. Review Current Safety Documents
- B. Review Incident Trends
- C. Review Training Documents
- D. Conduct a Wall-to-Wall Facility Audit
- E. Draft a Report of Findings and Tracking Log

4. Lockout / Tagout Procedures

- A. Review current Lockout / Tagout Procedures
- B. Draft Machine Specific Lockout / Tagout Procedures

5. Confined Space

- A. Conduct a Confined Space Inventory
- B. Draft Confined Space Entry Procedures

6. Chemicals

- A. Review current SDS
- B. Conduct a Chemical Audit
- C. Develop a Chemical Inventory
- D. Ensure GHS (Global Harmony System) Compliance

7. Safety Training

- A. Draft a Training Matrix
- B. Conduct Hazard Specific Safety Training
- C. Conduct training as needed. This may include:
 - a. OSHA 10-hour Training
 - b. Forklift Training
 - c. Lockout / Tagout Training
 - d. Confined Space Training
 - e. Hazard Communication
 - f. Electrical / Arc Flash Training
- D. Conduct Safe Work Practice Observations
- E. Mentor Supervisors and Foremen
- F. OSHA 30-hour Training

8. Machine Guarding

- A. Conduct a Machine Guarding Audit
- B. Verify E-Stops
- C. Verify Safety Interlocks

9. Contractor Safety

- A. Draft a Contractor Safety Program
- B. Establish Contractor Pre-qualifications
- C. Follow-up to ensure compliance

10. OSHA Citation Assistance

- A. Represent the company during an OSHA Inspection
- B. Assist with Abatement Schedules
- c. Assist with Informal Conference

Construction and Contracting Safety Program

Wagner-Meinert LLC has developed a Safety Program specifically for the Construction Industry.

Construction / Contractor Safety Program

1. OSHA Recordkeeping
 - A. Establish a Safety Document filing system
 - B. Audit OSHA 300 and 300A Logs
 - C. Assist with OSHA's new electronic filing system
 - D. Conduct incident report reviews
2. Corporate Safety Manual
 - A. Draft Company Safety Policies
 - B. Draft Company Health Programs
 - C. Draft Company Compliance Programs
 - D. Draft Company Safe Work Practices
 - E. Draft an Employee Handbook
3. Job Site Safety Review
 - A. Review General Contractor / Construction Manager / Owner Site Requirements
 - B. Review Job Site Safety Documents
 - C. Review Incident Trends
 - D. Review Training Documents
 - E. Conduct Construction Site Safety Audits
 - F. Draft a Report of Findings and Tracking Log
4. Site Specific Safety Plans
 - A. Review Job Site Safety Requirements
 - B. Draft Site-Specific Safety Plans
 - C. Draft Pre-Cast Concrete Plans (as needed)
 - D. Draft Steel Erection Plans (as needed)
 - E. Draft Fall Protection Plans (as needed)
 - F. Draft Rig/Lift Plans (as needed)
5. Job-Site Safety
 - A. Construction Site Safety
 - a. Owner Safety Representative
 - b. General Manager / Construction Manager Site Safety Staff
 - c. Contractor On-site Safety Personnel
 - d. Sub-contractor safety management
 - B. Shut-downs & Turnarounds
 - a. Owner / GM Safety Representatives
 - b. Contractor Safety Staff
 - C. Provide On-Site Safety for Critical Operations
 - a. Critical Lifts
 - b. Ammonia System Charging

6. Chemical Safety
 - A. Review current SDS (Safety Data Sheet)
 - B. Develop a Chemical Inventory
 - C. Ensure GHS (Global Harmony System) / HAZCOM Compliance
 - D. Ensure Site Compliance
7. Safety Training
 - A. Draft a Training Matrix
 - B. Conduct Hazard Specific Safety Training
 - C. Conduct training as needed, may include:
 - a. OSHA 10-hour Training
 - b. Forklift Training
 - c. JLG / Boom Lift Training
 - d. Scissor Lift Training
 - e. Fall Protection Training
 - f. Hazard Communication
 - g. Electrical / Arc Flash Training
8. 3rd Party Verification
 - A. Assist with 3rd Party Compliance, Examples:
 - a. ISNetWorld
 - b. MICCS
 - c. Gulf Coast Safety Council
9. Mentoring
 - A. Conduct Safe Work Practice Observations
 - B. Mentor Supervisors and Foremen
 - C. OSHA 30-hour Training
10. Contractor Safety Pre-Qualification
 - A. Review Bids for Safety Pre-qualifications
 - B. Assist with Pre-qualification Questionnaires
 - C. Establish Contractor Pre-qualifications
 - D. Follow-up to ensure compliance
11. OSHA Citation Assistance
 - A. Represent the client during an OSHA Inspection
 - B. Assist with Abatement Schedules
 - C. Assist with Informal Conference

ARM LC (Ammonia Refrigeration Management—Low Charge) Program Development and Maintenance

Wagner-Meinert, LLC has developed an extensive implementation and maintenance program for Low Charge Ammonia Systems.

Implementation Program:

1. Develop a Management System strategy
 - A. Draft Policy
 - B. Draft Responsibility Flow Chart
 - C. Develop a Review Schedule
 - D. Perform a Program Audit (5 years)
2. Refrigeration System Documentation
 - A. Draft Policy
 - B. Develop a Refrigeration Equipment List
 - C. Develop a Charging Document
 - D. Develop a Relief Valve List
 - E. Develop the Relief System Capacity Calculation
 - F. Compile Operation and Maintenance Manuals
 - G. Acquire Manufacturer's Data Reports and Certified Drawings for Vessels, Heat Exchangers, and other ASME certified components
 - H. Electrical Diagrams
 - I. Develop Refrigeration Flow Schematics
 - J. Develop Design Specifications
 - K. Develop the Ventilation System Capacity Calculation
 - L. Perform a Maximum Intended Inventory Calculation
 - M. Document Safety Stems
 - N. Develop Refrigeration Plan Views
 - O. Develop a Pre-Charging Checklist
 - P. Develop a Pre-Startup Safety Review Checklist
3. Safety Review Procedures
 - A. Draft Policy
 - B. Conduct a Safety Review
 - C. Develop Follow-up Forms
4. Operating / Maintenance Procedures
 - A. Draft Policy
 - B. Draft Operating Procedures
 - C. Draft Maintenance Procedures
 - D. Draft a Procedure Review Schedule
5. Maintenance Program
 - A. Draft Policy
 - B. Develop Preventative Maintenance (PM) List and Schedule
 - C. Establish a Critical Spare Parts List

6. Training Program
 - A. Draft Policy
 - B. Draft Training Documentation
 - C. Conduct Training
 - D. Ammonia Safety Data Sheet
7. Refrigeration Management
 - A. Draft Policy
 - B. Conduct Program Audit
8. Incident Investigation Procedures
 - A. Draft Policy
 - B. Develop Investigation Forms
 - C. Establish a Master Maintenance Log
9. Contractor Program
 - A. Draft Policy
 - B. Develop Approval Forms
 - C. Compile List of Approved Contractors
 - D. Develop Annual Evaluation Program
10. Emergency Response Program
 - A. Draft Policy
 - B. Develop an Emergency Action Plan
 - C. Draft a Letter of Coordination with Off-site Responders
11. Environmental Safety Evaluation
 - A. Draft Policy
 - B. Perform Off-site Analysis (5 years)
12. Refrigeration System Change Procedures
 - A. Draft Policy
 - B. Develop Change Forms
13. Additional Items
 - A. Draft Information Request Form
 - B. Draft Definitions List
 - C. Valve Labeling
 - D. Pipe Labeling
 - E. Equipment Labeling
 - F. Annual Ammonia Inspection
 - G. Mechanical Integrity Inspection
 - H. Pre-Startup / Pre-Charging / Decommissioning
 - I. Draft Master Document List
 - J. Develop System Rounds Log
 - K. Review Referenced Safe Work Practices
 - L. Develop Site Rules for Contractors

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 Process and Instrumentation Diagrams
 - 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 (only required If not kept in one location)
 - M. Provide SDS (Based upon the facilities Ammonia Supplier)
 - N. Draft Process Description (See ORSO SOP Below)
 - O. Draft Design Codes and Standards List (See the Refrigeration Design Specifications below)
 - P. Refrigeration System Design Specifications
3. Hazard Review Procedures
 - A. Draft Policy
 - B. Conduct a Hazard Review (What-if Checklist Method)
 - C. Conduct a Site Security Analysis*
 - D. Develop Follow-up Forms
4. Operating Procedures
 - A. Draft Policy
 - B. Draft Operating Procedures
 - C. Develop System Rounds Log**
 - D. Review Referenced Safe Work Practices (Confined Space, Hot Work, Lockout / Tagout)*
5. Preventative Maintenance Program
 - A. Draft Policy
 - B. Develop Maintenance Procedure
 - C. Manufacturers Operation and Maintenance Manuals
 - D. Develop Preventative Maintenance (PM) List and Schedule **
6. Training Program
 - A. Draft Policy
 - B. Draft Training Documentation
 - C. Conduct Training

7. Self-Audits
 - A. Draft Policy
 - B. Drafting Audit Question List
 - C. Develop Follow-up Forms
 - D. Perform an ARM Compliance Audit ***
8. Incident Investigation Procedures
 - A. Draft Policy
 - B. Develop Investigation Forms (including near-miss investigations)
 - C. Develop follow-up forms
9. Contractor Program
 - A. Draft Policy
 - B. Develop Approval Forms
 - C. Compile List of Approved Contractors
 - D. Develop Site Rules for Contractors
 - E. Develop Contract Employee Training Form
 - F. Develop Entry and Exit Procedures (Support Personal Entry Procedure)
 - G. Develop Sign-in / Sign-out Log
10. Emergency Planning and Response Program
 - A. Draft Policy
 - B. Develop an Emergency Action Plan or Emergency Response Plan
 - C. Draft a Letter of Coordination with Off-site Responders
 - D. Fire Prevention Plan
11. Hazard Assessment
 - A. Draft Policy
 - B. Release modeling—Worst Case
 - C. Release modeling—Alternate Release
 - D. Draft Accident Tracking Form
 - E. 10-Year Revision (Every Census)
12. Managing Change Procedures
 - A. Draft Policy
 - B. Develop Change Forms (MOC Form, Technical Assessment, Engineering Review, Safety and Health Review)
 - C. Pre-Start-up *
 - D. Pre-Charging Forms ****
 - E. Decommissioning Forms *****
13. Additional Items
 - A. Valve Labeling
 - B. Pipe Labeling
 - C. Equipment Labeling
 - D. Annual Ammonia Inspection **
 - E. Mechanical Integrity Inspection **
 - F. 5-Year Assessment *****

* Wagner-Meinert LLC considers this good practice and recommends adoption in all of our ARM Programs

** As required by ANSI/IIAR-6

*** While audits can be self-audits, many facilities prefer to utilize a third party such as Wagner-Meinert

**** As required by ANSI/IIAR-5

***** As required by ANSI/IIAR-8

***** As required by ANSI/IIAR-9

**PSM / RMP (Process Safety Management / Risk Management)
Program Development and Maintenance for Ammonia
Refrigerate Systems 10,000 lbs. maximum operating capacity and over**

Wagner-Meinert, LLC has developed an extensive implementation and maintenance program for Ammonia Refrigeration 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)
 - D. Conduct a Site Security Analysis
 - E. Assist with the Development of Deficiency Follow-up Logs
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 3 Years)
6. Contractors
 - A. Policy Development
 - B. Form Development

7. Pre-Startup Safety Review
 - A. Policy Development
 - B. Pre-Start up 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 Inspection (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

PSM / RMP / ARM Team Leadership Assistance **How Does Wagner-Meinert LLC lead your team?**

Benefits:

- **Team Composition:** We review the team make-up to ensure all team members are useful to the team. By eliminating members of the team who are not vital, we prevent “wasting” the time of those members who are not vital to the team.
- **Organization:** Our leaders organize meeting agendas to allow for the maximum amount of work in the least possible time.
- **Follow-up:** Logs are reviewed each meeting to “push” follow-up activities. When new reports are received the follow-up log is updated, and the Management of Change forms are generated for activities which require them.
- **Incident Investigation:** Completed incident investigations are reviewed with the PSM / RMP team. Incident investigations in process are reviewed to ensure quick completion of follow-up activities.
- **Management of Change Leadership:** Open Management of Change activities are monitored to ensure completion. Upcoming Management of Change Activities are performed as needed instead of using the “catch-up method.” We assure updated information is filed in a timely manner.
- **Pre-Start-Up Safety Reviews:** Pre-Startup Safety Reviews are reviewed during the meeting to ensure they have been completed and have been completed correctly. Upcoming Pre-Startup Safety Reviews are scheduled.
- **Policy Updates:** Policies can be updated as personnel and systems change.
- **Ammonia Maintenance Monitoring:** Monitoring of maintenance activities to ensure changes are documented correctly. This is done through reviews of service reports and maintenance logs. We also incorporate review of the PM Aging Report.
- **Standard Operating Procedure Certifications:** We assign and monitor the annual certification of Standard Operating Procedures.
- **Risk Management:** Risk Management Submittals are updated (but not submitted) on a continuous basis.
- **The cutting edge:** Our leaders are active in the industry (via IIAR, RETA, RSES, etc.). When regulations and enforcement activities change, our leaders can modify systems and process quickly to ensure continued compliance.

Perhaps the biggest advantage we bring to your compliance effort is focus. We understand how to manage your PSM / RMP / ARM Program. Our leadership allows us to assist with compliance, so you have more time to focus on the things which make your organization successful.

**Our leadership provides a significant long term cost savings
for your facility.**

Contract Safety Director

The main goal of Safety and Health programs are to provide a safe place to work and prevent injuries and illnesses. The financial hardship these events cause is felt by the worker's family, the company, and the workforce.

Our Contract Safety Director (CSD) Program is designed to supplement an existing safety program or develop and manage a new safety program. A (CSD) provides your company with Safety Consulting Services to assist in establishing and maintaining the company Safety and Health Program. The primary scope of the CSD consists of:

Safety Manager Services

- OSHA 300 logs audit and assistance, 300A posting, on-line submittals, etc.
- Safety Committee calendar of events development.
- Establish or assist with establishing a safety filing system for compliance documents.
- Conduct safety equipment inspections, including fall protection, ladders, etc.
- Work with managers and supervisors to establish mentoring relationships to drive a safety Focused Culture.
- Assist HR and the Safety Department with the company on-boarding process of new employees to incorporate a Safety Culture, Compliance, Core Values and standardized safety values across all work groups.
- Represent your company in the event of an OSHA inspection and assist with citation abatement.
- Work with your company's Safety Department as well as Operations and Management to develop a Corporate Safety and Health Policies and Procedure Manual that is consistent with OSHA Compliance, Safe Work Practices, and Core Values.

Safety Training

- Conduct safety training and or mentoring units throughout the contract year.
- Develop a Safety Matrix laid out by date and topic.
- Training: CPR, First Aid and AED Training.



Facility Safety Review

Annual Facility Safety Review (FSR) to identify potential violation and or hazards that employees may be exposed to. The FSR may include:

- A wall-to-wall safety inspection of the facility utilizing the WMI Facility Checklist, Employee / Manager Interviews and On-Site Observations.
- Issue a Report of Findings for each nonconformity / potential OSHA violation including recommendations, and a Deficiency tracking log.

Mentoring

Mentoring relationships can include Front-Line Supervisors, Crew Leads, Line Leaders and Safety Committee to teach them how to impact cultural change.

Safety Observations

Safety Observations can be utilized to target specific areas of concern. This may include:

- Workplace / Workstation Ergonomic Observations
- Hazard Specific Targeted Observation
- Behavioral Based Targeted Observations

A Contract Safety Director (CSD) is a powerful tool for any company safety program. A (CSD) provides your company with Safety Consulting Services where and when you need them.

Additional service options include:

- Machine Specific Lock-out / Tag-out Procedure development
- Permit Required Confined Space Assessments and Entry Procedure development
- Conduct Personal Protective Equipment “PPE” Hazard Assessments
- Safety Program Audit

Let's schedule a time to talk about your specific needs and desires for your safety program.

Management of Change Assistance

Managing change, either as part of Plant Operation or as an integral part of a PSM / RMP Compliance Program, can tax the resources of a facility. Wagner-Meinert LLC. provides the expertise and labor necessary to make your change successful.

Complete program updates for all changes both large and small. From initiation, to charging, startup and documentation finalization we can take the pain out of Management of Change



MOC Assistance may include

- | | |
|---------------------------------|--|
| ◇ Initiation | ◇ Valve Tagging |
| ◇ Screening | ◇ Pipe Labeling |
| ◇ Technical Review | ◇ Equipment Labeling |
| ◇ PSI | ◇ Relief System Calculations |
| ◇ Drawings | ◇ Engine Room Ventilation Calculations |
| ◇ Process Hazard Analysis | ◇ RMP Submittal Updates |
| ◇ Standard Operating Procedures | ◇ Ammonia Inventory Calculations |
| ◇ PM Program Adjustments | ◇ Critical Spare Parts Assessment |

What if I am under the 10,000 pound threshold quantity at my facility?

RAGAGEP Requirement: Management of change provision requires employers to develop written procedures to manage changes to the process regardless of the refrigeration system size. From a regulatory perspective, a change includes modifications to process chemicals, equipment, technology, or changes to a facility that affect the process.



Mechanical Inspections

(Annual Ammonia Inspection / Mechanical Integrity Inspections)

Every facility with extremely hazardous chemicals, specifically ammonia, needs to perform inspections. An extensive inspection needs to be performed annually. ANSI/IIAR-6 requires annual inspections and 3rd party inspections on a five-year basis

*5.4.2 *Equipment inspections shall be performed by a qualified inspector(s). Every fifth (5th) year, at a minimum, the annual inspections shall be conducted by a qualified inspector who shall not be influenced by the facility's record keeping, operations, maintenance, or management. This person shall not present a conflict of interest and shall report instances of deficiencies.*



Wagner-Meinert LLC, offers a "Safety Inspection", WMI's Annual Ammonia Inspection, per ANSI/IIAR-6 as well as a more detailed Mechanical Integrity Inspection.

The Mechanical Integrity Inspection performed by WMI goes beyond the basic inspections conducted in accordance with ANSI/IIAR-6. During a Mechanical Integrity Inspection, we conduct field tests on equipment and equipment safeties per our prepared checklist. Wagner-Meinert LLC uses a checklist designed to incorporate the questions provided by IIAR and supplemented in those areas that were, in our opinion, lacking. Below is a comparison of the Annual Ammonia Inspection based upon ANSI/IIAR-6 and Wagner-Meinert LLC's Mechanical Integrity Inspection.

During a Mechanical Integrity Inspection, we include visual and mechanical inspection of all system components. This includes high level alarms and shut-downs on each vessel, testing alarms and all shutdowns on each compressor. Note that WMI not only tests safeties electrically but also mechanically. For example, where possible the High-Level Shutdown Switch can be tested by filling the Level Column with liquid ammonia until the float switch trips.



Category	Number of Questions included for each Component		
	Annual Safety Inspection		5-year Mechanical Integrity Inspection
	ANSI/IIAR-6	WMI	
Air Cooling Evaporators	15	55	55
Ammonia Absorption	16	16	16
Compressors	20	82	82
Evaporative Condensers	18	61	61
General Safety	26	45	45
Heat Exchangers	20	74	74
Piping	19	41*	41*
Pressure Relief Systems	23	33**	33**
Pressure Vessels	20	65	65
Purgers	20	60	60
Refrigerant Pumps	11	68	68
Safety Systems (Including Ventilation)	35	55	55
Air Cooled Condensers	Not Included	61	61

* Individual checklists by system (i.e., "Engine Room piping", "Roof piping" etc.)

** Individual checklists by Relief Header

At the conclusion of either study, we issue a written report outlining the findings of the study. Included in the report is a summary listing the items requiring attention, and copies of photos of deficiencies taken during the inspection. An electronic copy of the report for archive purposes, (in .PDF) format is included with the report. A spreadsheet listing the follow-up items will be provided, to allow you to record follow-up actions.

Please call to receive a quote or to make your inspection appointment. Annual Ammonia Inspections and Mechanical Integrity Inspections are prime factors to assure a safe operating plant and also point out areas of improvement for energy efficiency.

"Our Reputation is our Future"



ANSI / IIAR-6 5.4.2
**Equipment inspections shall be performed by a qualified inspector(s). Every fifth (5th) year, at a minimum, the annual inspections shall be conducted by a qualified inspector*

“EPA believes that owners and operators who have these (extremely hazardous) substances must adhere, at a minimum, to recognized industry standards and practices (as well as any government regulations) in order to be in compliance with the general duty clause”

*Guidance for Implementation of the General Duty Clause
Clean Air Act Section 112(r)
(1)*

Mechanical Integrity Matters™



All inspections are not equal. We offer an Annual Ammonia Inspection per ANSI/IIAR-6 guidelines, as well as a more detailed Mechanical Integrity Inspection that goes well beyond the basic inspection criteria required within ANSI/IIAR-6



Wagner-Meinert, LLC's Safety Services is committed to providing quality Mechanical Integrity / Annual Ammonia Inspections.

Call to make your appointment today!

Inspection Options

Annual Ammonia Inspection

Mechanical Integrity Inspection

Mechanical Integrity Inspection
 With Nondestructive Testing Services

Enhanced Mechanical Integrity
 Inspections

Inspection Follow-Up Services



Wagner-Meinert, LLC can provide Nondestructive Services in conjunction with our Mechanical Integrity Inspection. We believe a two-part process (a Mechanical Integrity Inspection followed by Nondestructive Testing of identified areas) to be the best approach. Nondestructive Testing points are determined by the recommendations of the Inspection Team.



"Our Reputation is our Future"



Process Hazard Analysis

Wagner-Meinert LLC provides assistance in all popular forms of Process Hazard Analysis (HAZOP, Checklist, What-if, Failure Modes and Effects, and Fault Tree Analysis). We specialize in the What-if Checklist method (Preferred by the Ammonia Refrigeration Industry).

Conducting a Process Hazard Analysis

Our PHA's are performed by a team consisting of Wagner-Meinert LLC and plant Personnel. The objective of the Process Hazards Analysis would be a systematic study of the ammonia refrigeration system to identify potential causes and consequences of accidental ammonia releases. The proceedings of the analysis along with a list of recommendations to improve the facility would be documented as part of the study.

Wagner-Meinert LLC will provide an experienced team leader to assist in conducting the study of the system. Typically, our team leader assumes responsibility for the following activities when conducting a Process Hazards Analysis Study:

- Preparation: Prior to conducting the study, Wagner-Meinert LLC will review process drawings, decide upon the logical approach for the study, and develop the time and project work schedule. The preparation process will require approximately two (2) weeks after the finalization of the complete drawing sets, equipment information, and valve list.
- Lead the study: The team leader will guide and manage the team through the study. Wagner-Meinert's team leader is knowledgeable in a number of factors which will ensure that the study is of the highest quality.
- Document the study.

Included in our Process Hazard Analysis is a Site Security Review. The Site Security Review would be performed during the Process Hazard Analysis and included with the Process Hazard Analysis report. To address EPA 325-R-014-001 "Anhydrous Ammonia at Refrigeration Facilities under Scrutiny by US EPA," Wagner-Meinert LLC now includes a code review section in each equipment section as well as a section specific to code changes

"The Process Hazard Analysis is a thorough, orderly, systematic approach for identifying, evaluating, and controlling the hazards of processes involving highly hazardous chemicals."

—OSHA Publication 3132

Wagner-Meinert, LLC's Safety Services is committed to providing quality Process Hazard Analysis Assistance.

If you have any questions concerning auditing or any of our other services in this area, please contact us.

Additional information concerning our Safety Services Group is available at www.wmi-safetyservices.com.



Offering Live Online PHA and Compliance audits

Personal Protective Equipment Assessment

Wagner-Meinert LLC has developed a Personal Protective Equipment (PPE) Assessment Safety Program for General Industry and/or the Construction Industry. PPE Assessments identify hazards or potential hazards to ensure the correct PPE is chosen. This service is available as a standalone offering or it can be incorporated as an option in our Contract Safety Director Offering.

Our PPE Hazard Assessment Safety Program includes:

1. Hazard Recognition
2. Job / Task Hazard Analysis
3. Hazard Control
4. Specific PPE Safety Training



Lockout / Tagout Machine Specific Procedures

We determine:

1. Each piece of machinery's energy source
 - A. Electrical
 - B. Chemical
 - C. Thermal (hot and/or cold)
 - D. Mechanical
 - E. Hydraulic
 - F. Pneumatic
 - G. Gravity
 - H. Radiation
2. We then draft procedures for each component

Lockout-Tagout Procedure			
Baler B531		Main Building, Section 2	
LOCKOUT APPLICATION PROCESS			
1. Notify affected personnel. 2. Properly shut down machine. 3. Isolate all energy sources. 4. Apply lockout devices, tools, and tags. 5. Verify total de-energization of all sources.			
Lockout/Tagout	Notes	Lockout Authority	
4			
ENERGY SOURCE	DEVICE	METHOD	PICTURE
GRAVITY	Yellow Baler Press Arm	Move Press Arm to ground. Install Machine Block to brace Press Arm.	
CONTROL PANEL	Control Panel OFF on unit.	Power off and remove key.	
ELECTRICAL 480V	Electrical Disconnect Local Disconnect on unit.	Move to off position and Lockout.	
ELECTRICAL 480V	Electrical Disconnect BALER B531 DISCONNECT on wall behind unit.	Move to off position and Lockout.	
LOCKOUT REMOVAL PROCESS			
1. Ensure all tools and items have been removed. 2. Confirm that all employees are safely located. 3. Verify that controls are in neutral. 4. Remove lockout devices and reenergize machine. 5. Notify affected employees that servicing is completed.			

Let's schedule a time to talk about your specific needs and desires for your safety program



Usable, Reliable, and
Safe!

Integrated Lockout
Tagout Procedures

Integrated Pump down
Procedures

Facility Specific

Maintenance
Procedures that
make sense to the
Technician!

Development: Maintenance Procedures

Maintenance Procedures present a unique hazard to your facility. While Standard Operations can be anticipated, Downtime Maintenance is often unique. By developing a set of anticipated Maintenance Procedures, the unique becomes the “slightly different.”

While designed for the Ammonia Technician, our Maintenance Procedures are backed by hundreds of years of practical maintenance experience. Many operators find Maintenance Procedures to be beneficial to their everyday job functions.



Dust Hazard Analysis (DHA)

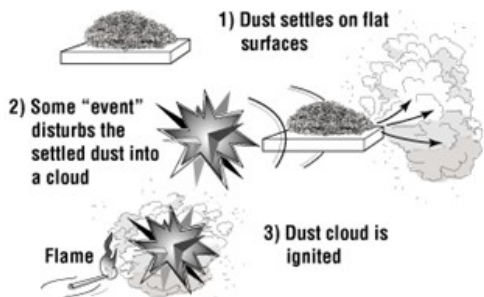
The National Fire Protection Association has published NFPA 652: Standard on the Fundamentals of Combustible Dust. NFPA 652 introduced a new term, **Dust Hazard Analysis (DHA)**, which is geared toward factories involved in basic processes that generate combustible dusts collected by simple dust collectors.

New for 2020

The National Fire Prevention Association has updated an industry consensus standard (NFPA 652), calling for manufacturers in industries with combustible dust to complete dust hazard analysis, and begin taking actions to reduce any related hazards. **You must complete a Dust Hazard Analysis (DHA) before September 7, 2020.** The goal is to provide safety measures to prevent and mitigate fires and dust explosions in facilities that handle, produces, or generates combustible dust.



What is Combustible Dust?



Combustible dusts are any combustible solid material composed of distinct particles or pieces, regardless of shape, size or chemical composition that presents a fire or deflagration (explosion) hazard when suspended in air. The National Fire Protection Association (NFPA) states that any material that will burn in air as a solid can be explosive in a finely-divided “dust” form, and any industrial process that reduces materials into small particles presents a potential for a serious fire or explosion.

What Causes a Dust Explosion?

A dust explosion is caused by the rapid burning of fine dust particles suspended in the air. Catastrophic explosions can occur when the resulting pressure wave dislodges a greater amount of combustible material present in the facility. Equipment damage including fragmentation can result if the explosion is confined within a vessel, dust handling equipment or process equipment.

Dust Explosions are unique and complex phenomena that are as unpredictable as they are dangerous. Although no two dust explosions are ever the same, they share the same five elements: oxygen; ignition source; combustible dust; dispersion; and confinement. If one element of the explosion pentagon is eliminated, an explosion is less likely to occur.



About Dust Explosions

Globally, the amount of devastation incurred by a factory explosion is staggering.

- ♦ In 2017 Federal OSHA conducted 476 inspections related to combustible dust, issuing 319 citations.
- ♦ FM Global reports that in a 10-year period, losses due to dust explosions were an average of \$398,000 per explosion.
- ♦ According to a 2018 report from the Chemical Safety Board (CSB), over the previous eleven years, there were 59 fatalities and 303 injuries associated with 105 combustible dust incidents.



How Does Wagner-Meinert LLC. Help?

1. **WMI** can lead your DHA Team and help identify crucial staff members to serve in supporting roles.
2. **WMI** can assemble and organize relevant documents, drawings that define your dust handling process.
3. **WMI** can Verify the accuracy of your documentation.
 - a. We can draft or revise Standard Operating Procedures (SOPs).
 - b. Our CAD department can update drawings
 - c. If needed, we can collect dust samples and have them tested
4. **WMI** utilizes a “What-if” PHA Checklist and visual observations to assess Risks. We will use Risk Index to each risk and assign a color code value for quick and easy prioritization.
 - a. **RED** (Very high Risk)
 - b. **Orange** (High Risk)
 - c. **Yellow** (Medium Risk)
 - d. **Green** (Low Risk)
5. **WMI** will issue a report of findings to Document your Results - NFPA 652 requires that the results of the DHA be completely and thoroughly documented for two primary reasons:
 - a. Regulatory Compliance, and
 - b. Management of Change
6. **WMI** can provide on-going safety support to ensure each Action Item is tracked to fruition.

4	8	12	16
3	6	9	12
2	4	6	8
1	2	3	4

If longer term safety support is needed, our team of Safety Professionals can initiate a Contract Safety Director (CSD) Program to augment your safety and training department or in the absence of a full-time safety position can become your safety department.

For more information about Wagner-Meinert Safety Services, or to receive a quote, please contact us.



Development: Standard Operating Procedures

Perhaps the second most important safety system in your arsenal is good usable Standard Operating Procedures.

Wagner-Meinert LLC, brings hundreds of years of practical operating experience, code expertise, and system management experience to every Standard Operating Procedure we draft!

**Usable, Reliable,
and Safe**

**Integrated Lockout
Tagout Procedures**

**Integrated Confined
space
reclassification as
part of Standard
Operations**

**Integrated
evaluation and
troubleshooting
guide**

**Operating
Procedures that
make sense to the
Operator!**



Risk Management Submittals

A Risk Management Plan is required to be submitted electronically to the Environmental Protection Agency every five years or when other significant changes occur. This plan questionnaire contains questions pertaining to the RMP / PSM Program.

A worst-case release scenario and an alternate release scenario must be included in the submittal. Wagner-Meinert LLC personnel prepare the models based on scenarios selected by facility personnel. While our personnel will make suggestions, the facility representative will be required to make the final decision as to which scenarios will be submitted. The scenarios would be selected based on the Process Hazard Analysis, re-analyzed, and recalculated. This includes population exposures, per the latest census data and a list of public receptors.

An evaluation of previous accidents will be performed and included in the plan submittal.

Wagner-Meinert LLC personnel would complete the submittal online and work with facility personnel to verify that the information is submitted correctly. The last submission would be used as a template to begin the new submittal. Additional information and dates will be required. The Wagner-Meinert LLC representative will work with the facility representative to compile the new information. Following the preparation of the submittal, facility personnel must certify the submittal online.



“Our Reputation is our Future”



PSM / RMP Compliance Auditing

The objective of a successful audit is to analyze your PSM/RMP Program against minimum safety criteria set forth in the IIAR Guide to Risk Management, CPL-2.2.45, PA's Risk Management Audit Guidance, and the supplemental information deemed necessary by Wagner-Meinert LLC Auditors.

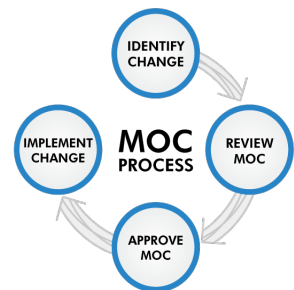
Wagner-Meinert LLC Auditors utilize the information available from EPA, OSHA and industry standard guidelines, as well as our extensive development expertise.



Wagner-Meinert LLC's Compliance Audit consists of a multi-part process; a review of the written programs, a review of completed documentation, including a review of follow-up activities, a facility walkthrough and interviews with employees. This review is of a representative portion of the program as opposed to a review of the entire program, i.e., a Part of Management of Change Forms will be reviewed, but not every MOC Form.



Wagner-Meinert, LLC's Safety Services is committed to providing quality Triennial Process Safety / Risk Management Compliance Auditing.



Call to make your appointment today!

Policy Review

Employee Interviews

Documentation Review

Process / Refrigeration Observations

Audit Certification



Our audits consist of a two-person audit team which will analyze your programs effectiveness of the required elements of a PSM/RMP program. Audits include an analysis of the management system, a critical component to any safety program. An audit will typically last three to four days onsite.

Wagner-Meinert LLC can also provide your company with assistance in Ammonia Refrigeration Maintenance (ARM) Audits, as well as OSHA and EPA Audit Assistance.

If you have any questions concerning auditing or any of our other services in this area, please contact us. Additional information concerning our Safety Services Group is available at www.wmi-safety-services.com.

“Our Reputation is Our Future”



The objective of a successful audit is to analyze your Program against safety criteria set forth in the applicable standards, and the supplemental information deemed necessary by our Auditors.

Wagner-Meinert, LLC Auditors utilize the information available from EPA, OSHA and industry standard guidelines, as well as our extensive development expertise.

Risk Management Auditing

For Program 1, 2, or 3 Processes for a Multitude of Chemical Applications



Wagner-Meinert, LLC's Risk Management Audit consists of a multi-part process; a review of the written programs, a review of completed documentation, including a review of follow-up activities, a facility walk through and interviews with employees. This audit is of a representative portion of your program.



Wagner-Meinert, LLC's Safety Services is committed to providing quality Triennial Process Safety / Risk Management Compliance Auditing.

Call to make your appointment today!



Auditing Protocol

Policy Review

Employee Interviews

Documentation Review

Process Observations

Audit Certification



Our audits consist of a two-person audit team which will analyze your programs effectiveness of the required elements of a RMP Program based upon your program level. Audits include an analysis of the management system, a critical component to any safety program. An audit will typically last two to four days onsite.

If you have any questions concerning auditing or any of our other services in this area, please contact us. Additional information concerning our Safety Services Group is available at www.wmi-safetyservices.com.

“Our Reputation is Our Future”



Training

- Free or Paid
- General Enrollment, Online, or On-Site
- Non PDH, RETA PDH
- Hands-On, Lecture, or Both
- Compliance, Safety, Industrial Refrigeration, HVAC, or Emergency Response



Training Introduction

More than a tag line, “Training with Purpose” is the core philosophy of our training group. Wagner-Meinert, LLC provides an extensive assortment of classes in several formats to allow for the best possible training experience.

Hands-On

We offer Hands-On training at our Fort Wayne, Indiana Training Centers. These include maintenance courses, Emergency Response, and other Operator / Technician oriented courses. In some instances, these courses can be offered at your facility.

Classroom

We offer traditional classroom training at facilities nationwide as well as on-site at your facilities. Our training locations include:

- ♦ Fort Wayne, Indiana
- ♦ Nashville, Tennessee
- ♦ Van Buren, Arkansas
- ♦ Albany, Oregon
- ♦ Bartow, Florida

On-line

Our “Live-on-line” is an interactive learning environment that combines the benefits of face-to-face live training coupled with the non-travel convenience of on-line training. These courses are designed to allow students to participate in live sessions from the comfort of their own homes or facilities.

PDH (Professional Development Hours) and CEU (Continuing Education Units) are available from most of our courses. If you need RETA hours to maintain RETA certification, we have the courses to fit your needs.

For your convenience, we’ve provided discipline descriptions for our courses.

[Ammonia Refrigeration Operations](#) courses are designed for Ammonia Refrigeration Operators and Technicians. Supervisors and Safety personnel may also find them of benefit.

[Safety Courses](#) are designed for Operators and plant personnel. Safety personnel and Management Personnel will benefit greatly from the safety information presented.

[Ammonia Refrigeration Compliance](#) are designed for Personnel who develop, maintain, or function within a compliance program.

[HVACR Operations](#) courses are designed for HVACR Technicians. Supervisors and Safety personnel may also find them of benefit.



In addition, we offer customized courses in a huge variety of Ammonia Refrigeration, Compliance, Safety, HVACR, Human Resources, industrial philosophy, Contractor operations, and several other subjects. Contact us for all of your training needs.

Training with Purpose!

Looking forward to seeing you in class or online !!!

Course List

Below is a complete list of our current course offerings. Courses are added continuously, if you have an interest in a course other than those listed below, please contact us!

- Aerial Lift and Powered Industrial Truck Safety
- Ammonia Maintenance and Troubleshooting
- Ammonia Refrigeration Operator Refresher Course
- Ammonia Refrigeration Review Course
- ANSI/IIAR 2
- ANSI/IIAR 4
- ANSI/IIAR 5
- ANSI/IIAR 6
- ANSI/IIAR 7
- ANSI/IIAR 8
- ANSI/IIAR 9
- Applying the General Duty Clause
- Basic Electricity
- Basic Rigging and Universal Hand Signals
- Certified Refrigeration Service Technician (CRST) Review
- Combustible Dust Compliance
- Confined Space Entry Competent Person
- Confined Space Entry Training
- Contractors PSM/RMP/ARM Awareness
- CRES Review
- Emergency and Evacuation Response
- Energy Optimization for Ammonia Refrigeration
- EPA 608 Training
- Excavation and Trenching Safety Training Course
- Fall Protection Competent Person
- First Aid Training with CPR/BBP/AED
- Fundamentals of Refrigeration Engineering
- Hazard Communication with GHS
- How to Lead a PSM Team
- Incident Commander Training
- Incident investigation Root Cause Analysis
- Introduction to Ammonia Refrigeration Operations
- Introduction to Ammonia Refrigeration Compliance Programs
- Machine Guarding and PPE Training
- Mechanical Integrity Solutions
- NATE Core Essentials Class
- NFPA 101 The Life Safety Course
- OSHA 10/30 Hour Construction
- OSHA 10/30 Hour General Industry
- Personal Protective Equipment Assessment Safety Program
- Preparing for a Government Inspection
- Refrigeration Level 1
- Refrigeration Level 2
- Respirator Program Development
- Setting up an Ammonia Preventative Maintenance Program
- The Control of Hazardous Energy
- Train the Trainer
- Trenching and Excavation Competent Person
- Understanding Daily Rounds
- Understanding Management of Change
- The Valve Course
- 4 Hour Arc Flash Awareness
- 8 Hour Hazardous Materials Technician Refresher Training
- 24 Arc Flash Training
- 24 Hour Hazardous Materials Technician Training
- 40 Hour Hazardous Materials Technicians

Course List by Discipline

Ammonia Refrigeration Compliance Courses

- ANSI/IIAR 2
- ANSI/IIAR 4
- ANSI/IIAR 5
- ANSI/IIAR 6
- ANSI/IIAR 7
- ANSI/IIAR 8
- ANSI/IIAR 9
- Applying the General Duty Clause
- Contractor's PSM/RMP/ARM Awareness
- Introduction to Ammonia Refrigeration Compliance Programs
- Mechanical Integrity

Ammonia Refrigeration Operations Courses

- Ammonia Maintenance and Troubleshooting
- Ammonia Refrigeration Operator Refresher
- Ammonia Refrigeration Review Course
- Basic Electricity
- Certified Refrigeration Service Technician (CRST) Review
- CRES Review
- Energy Optimization for Ammonia Refrigeration
- Fundamentals of Refrigeration Engineering
- How to Lead a PSM Team
- Introduction to Ammonia Refrigeration Operations
- Mechanical Integrity
- Refrigeration Level 1
- Refrigeration Level 2
- Setting up an Ammonia Preventative Maintenance Program
- Train the Trainer
- Understanding Daily Rounds
- Understanding Management of Change
- The Valve Course

HVACR Operations Courses

- Basic Electricity
- EPA 608 Training
- NATE Core Essential Class

Safety Courses

- Aerial Lift and Powered Industrial Truck Safety
- Basic Rigging and Universal Hand Signals
- Confined Space Entry Competent Person
- Confined Space Entry Training Course
- Emergency and Evacuation Response
- Excavation and Trenching Safety Training Course
- First Aid Training with CPR/BBP/AED
- Hazard Communication with GHS
- Incident Commander Training
- Incident Investigation / Root Cause Analysis
- Machine Guarding and PPE Training Course
- NFPA 101 The Life Safety Course
- OSHA 10/30 Hour Construction
- OSHA 10/30 General Industry
- Personal Protective Equipment Assessment Safety Program
- Preparing for a Government Inspection
- Respirator Program Development
- The Control of Hazardous Energy Lockout/Tagout
- Trenching and Excavation Competent Person
- 4 Hour Arc Flash Awareness
- 8 Hour Hazardous Materials Technician Refresher Training
- 24 Arc Flash Training
- 24 Hour Hazardous Materials Technician Training
- 40 Hour Hazardous Materials Technician Training

RETA PDH Qualified Courses

- Ammonia Maintenance and Troubleshooting
- Ammonia Refrigeration Operator Refresher
- Ammonia Refrigeration Review Course
- ANSI/IIAR 2
- ANSI/IIAR 4
- ANSI/IIAR 5
- ANSI/IIAR 7
- ANSI/IIAR 8
- ANSI/IIAR 9
- Applying the General Duty Clause
- Basic Electricity
- Certified Refrigeration Service Technician (CRST) Review
- CRES Review
- Energy Optimization for Ammonia Refrigeration
- Fundamentals of Refrigeration Engineering
- How to Lead a PSM Team
- Incident Commander Training
- Incident Investigation / Root Cause Analysis
- Introduction to Ammonia Refrigeration Operations
- Introduction to Ammonia Refrigeration Compliance Programs
- Mechanical Integrity
- Refrigeration Level 1
- Refrigeration Level 2
- Respirator Program Development
- Setting up an Ammonia Preventative Maintenance Program
- The Control of Hazardous Energy Lockout/Tagout
- Train the Trainer
- Understanding Daily Rounds
- Understanding Management of Change
- The Valve Course
- 24 Hour Hazardous Materials Technician Training



Industrial Refrigeration Services

We are more than engineering and contracting. Wagner-Meinert, LLC is a highly-skilled, dedicated, and proactive service and maintenance partner.

Industrial Refrigeration Service

- Our service technicians are trained to maintain all types of equipment from your smallest piece of commercial equipment to your largest industrial system.

24/7/365 Emergency Service

- **(800) 210-6621**
- A live, U.S. based, operator is available 24/7 to take your call and dispatch a technician to your location.

Planned Maintenance Agreements

- IIAR-6 Compliant PM Tasking & WMI Peak Performance Tasking
- Performing planned maintenance allows your facility to avoid costly down time due to break downs, and also saves money over time by allowing you to budget repairs.
- WMI uses factory recommended, and factory supplied replacement parts.

Compressor Vibration and Oil Analysis

- Vibration Analysis can determine approximate equipment failure times to reduce or eliminate emergency breakdowns.
- Routine oil analysis is an effective way of gauging the condition of a lubricant and determining optimum change intervals — to get the most life out of the oil in use as well as provide maximum continuous protection of equipment.

Screw Compressor Rebuilds

- Re-manufactured and re-built compressors
- Detailed documentation from start to finish





Mechanical Services

Whether the heartbeat of your building is a chiller system, packaged rooftop units, or boilers, we can meet your mechanical needs.

We have a full staff of highly-trained engineers to assist you in redesigning or retrofitting your building's HVAC/R Mechanical systems.

Commercial & Industrial HVAC/R Service

- Our service technicians are trained to maintain many types of equipment from your smallest piece of commercial equipment to your largest industrial system.

24/7/365 Emergency Service

- A live, U.S. based, operator is available 24/7 to take your call and dispatch a technician to your location.

Planned Maintenance Agreements

- Our service technicians are trained to provide planned maintenance services on HVAC/R systems, boilers, electronic controls, heat recovery, and mechanical systems.

Design & Build Partner

- Complete HVAC/R, Plumbing, Mechanical, and Refrigeration systems
- Start-to-finish design, installation, service of Industrial Controls and Automation, and a P.E. on staff for State drawing approval

Backflow Testing and Repair

- WMI is state certified in Indiana and Ohio to test, troubleshoot, and repair backflow assemblies.

HVAC/R Mechanical Piping

- Fully staffed piping fabrication shop onsite - designed to be flexible to meet the unique needs of your piping application and design.

Energy Solutions & Management

- Monitoring, controlling, and conserving are key to saving energy in your organization, and are important resources that can help meet future energy needs.



**Mechanical Integrity – Training – Auditing
Program Development – Maintenance – Leadership**



**Industrial Refrigeration – Mechanical Systems
Controls & Automation – Design Build Services –
Parts**

**24-Hour Service – Preventative Maintenance –
Oil Analysis**

**Vibration Analysis – Fast Track Construction
Industrial Fabrication – Compressor Remanufacturing**



“Our Reputation is Our Future”