

Ammonia System Inspection Services

NDT & MECHANICAL INTEGRITY INSPECTION



A HIGHER LEVEL
OF RELIABILITY®



Non-Invasive Inspection

COMPREHENSIVE, RELIABLE NDT AND MI INSPECTION



Acuren inspection services for ammonia refrigeration systems are the most comprehensive, revealing and cost effective available for insulated pipe. We offer the only inspection method that proves its results with detailed, easy-to-understand images.

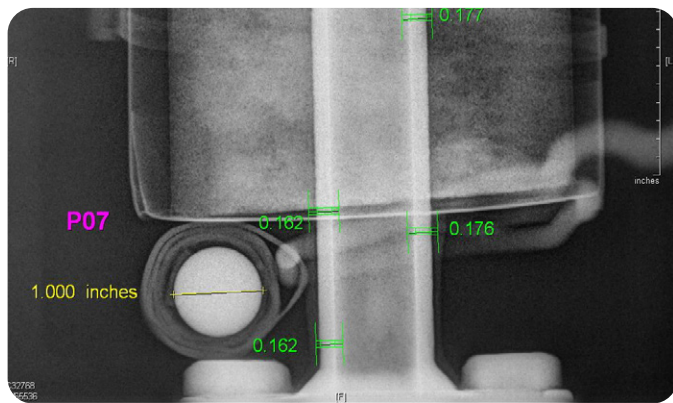
- Non-invasive test methods won't harm insulation or jacketing, deliver multiple readings per test location, measure pit depths and provide pipe diameter and schedule
- Real time x-ray scans cover full lengths of pipe runs to find area of interest for further inspection
- A detailed findings report includes all wall thickness images, scan video results and all needed calculations to show wall loss percentage using customer acceptance criteria

RELIABLE, REPEATABLE SERVICE ONLY ACUREN CAN DELIVER

WHY ACUREN?

- Only Acuren provides video and digital images of inspection results that clearly call out areas of concern and allow you to quickly take action
- Inspections are performed without disturbing insulation or disrupting operations

Our mission is to provide reliable, repeatable service for every customer, everywhere, every day. As the largest provider of NDT services in North America, our depth of resources and talent is unequalled. Our ammonia system specialists can provide results that clearly identify maintenance and repair requirements, allowing you to proactively and efficiently address the needs of your operation.



Acuren's non-invasive inspection methods provide conclusive, visible & cost effective results.

MECHANICAL INTEGRITY VISUAL INSPECTIONS

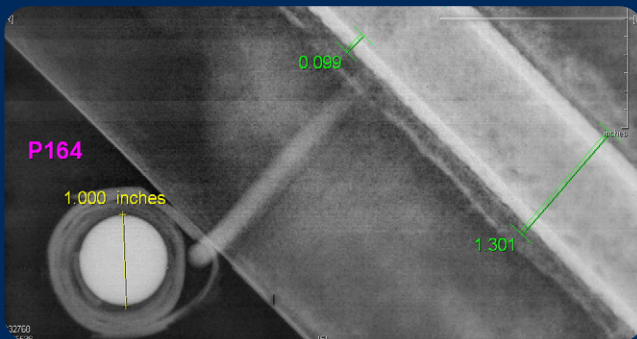
- A 5 year independent inspection of the ammonia refrigeration system performed by a competent non-biased 3rd party inspection service
- We conduct thorough visual inspections of all process equipment and controls utilizing the latest codes and standards
- A review of the Process Safety Management documentation to include all process safety information as well as all mechanical integrity tests and inspections procedures



THE MOST ADVANCED TESTING AVAILABLE

Start your mechanical integrity program off the right way. We number and tag each test location, x-ray and scan. We take location photos and assign an index page to each named facility location for easy follow-up in the report.

Future inspections are easier and comparable because of our tagging and report system.



DIGITAL RADIOGRAPHY

- Acuren's Digital Radiography of insulated pipe gives clear visual proof of pipe condition
- Pipe wall thickness measurement are accurate to the thousandths of an inch
- Quickly gathered data identifies severe risk locations for immediate action
- Prevents unexpected shutdowns, product loss and safety hazards




REAL TIME RADIOGRAPHY (RTR)

- RTR allows our team to see the surface of the pipe in real time, throughout the length of a pipe run
- Technicians mark areas of concern indicating possible rust
- Digital Radiography is then performed to determine wall thickness
- RTR can inspect thousands of feet per inspection

COMPREHENSIVE DIGITAL REPORTING

- Contains every x-ray image with all wall thickness readings
- Contains every real time scan video showing all areas of interest
- Wall loss percentage markers reflect areas for immediate attention
- Customizable to your criteria and action plans

<div><div>4250 N. 126th Street Brookfield, WI 53005 Phone: 262-781-0105 Fax: 262-781-7796</div></div>						Ammonia Piping Profile Examination Report							Date: 9/25/2015			
Customer/Contact: Everyman Foods Location/Address: Monroe, WI Zone: Chemical Room													SCI: 468795			
													POI: N/A			
													Unit/System: Ammonia System Inspection			
Exposure XRY Link	Service JPG Link	Location ID	Constr. Date	Inspect. Date	Pipe Dia. Sch.	Nominal Wall	Client or Manf/MW	Min(t) Found	Max(t)/Nom%	Percent Loss	Next Inspt.	Inspection Basis	Icing	Corrosion	Moistur	
P07	NH3	Chemical Room	1/1/80	9/1/15	1.00" Sch. 80	0.179	0.134	0.162	0.989	9.5	8/30/20	Baseline	Moderate Icing	Minor Corrosion	None Visible	
P08	NH3	Chemical Room	1/1/80	9/1/15	1.00" Sch. 80	0.179	0.134	0.162	0.983	9.5	8/30/20	Baseline	None Visible	Minor Corrosion	None Visible	
P09	NH3	Chemical Room	1/1/80	9/1/15	0.75" Sch. 80	0.154	0.116	0.104	0.864	32.5	9/1/15	Baseline	Minor Icing	Severe Corrosion	None Visible	
P10	NH3	Chemical Room	1/1/80	9/1/15	0.75" Sch. 80	0.154	0.116	0.133	0.961	13.6	8/30/20	Baseline	Minor Icing	Minor Corrosion	None Visible	
P11	NH3	Chemical Room	1/1/80	9/1/15	2.50" Sch. 40	0.203	0.152	0.180	0.951	11.3	8/30/20	Baseline	Moderate Icing	Minor Corrosion	None Visible	
P12	NH3	Chemical Room	1/1/80	9/1/15	2.50" Sch. 40	0.203	0.152	0.181	0.941	10.8	8/30/20	Baseline	None Visible	Minor Corrosion	None Visible	
P13	NH3	Chemical Room	1/1/80	9/1/15	2.50" Sch. 40	0.203	0.152	0.176	0.946	13.3	8/30/20	Baseline	Minor Icing	Minor Corrosion	None Visible	
P14	NH3	Chemical Room	1/1/80	9/1/15	1.00" Sch. 80	0.179	0.134	0.128	0.799	28.5	9/1/15	Baseline	Minor Icing	Severe Corrosion	None Visible	
P15	NH3	Chemical Room	1/1/80	9/1/15	1.00" Sch. 80	0.179	0.134	0.127	0.872	29.1	9/1/15	Baseline	Moderate Icing	Severe Corrosion	None Visible	



West	503.652.8878
Midwest	937.228.9729
Gulf Coast	281.228.0000
Southeast	919.875.8240
Northeast	724.228.2155



Pacific	604.275.3800
Western	780.440.2131
Central	905.825.8595
Atlantic	709.753.2100



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BEYOND INSPECTION