

# Magnetic Particle Inspection Report

**Nina Yang**  
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Test Date:	Sat, 12 Apr 2025
Project:	ExxonMobil Refinery Turnaround - Phase 2
Location:	Baytown, Texas, USA
Specification:	ASTM A106 Grade B - Seamless Carbon Steel Pipe
Acceptance Criteria:	ASME Section V, Article 7; Acceptance per ASME B31.3
Procedure No:	MPH-EXX-0425-Rev2

## SPECIMEN DATA

Material:	ASTM A516 Grade 70 Carbon Steel	Drawing No:	DWG-2025-MPI-0089
Testing Temperature:	72°F (22°C)	Welding Process:	SMAW (Shielded Metal Arc Welding)
Surface Condition:	As-welded, light grinding performed	Weld Preparation:	Single-V groove, 60° bevel
Request For Inspection (RFI) No:	RFI-0425-TX-MPI003	Material Dimension:	24" OD x 0.625" WT

## MPI DATA

Equipment Used:	Magnaflux Y-2 AC Yoke	Contrast Paint:	WCP-2 White Contrast Paint
Serial Number:	Y2-2025-0197	Batch No:	CP-24125
Calibration:	AC Yoke lift test with 10 lb ASTM block - Passed	Magnetic (Powder/ink):	AC Yoke lift test with 10 lb ASTM block - Passed
Current:	AC (Alternating Current)	Batch No:	INK-BLK-0452
Illumination:	UV-A Light - 1200 µW/cm² at 15 inches	Inspection methods:	Wet
Sensitivity:			

## RESULT

Identification	Joint Number	Welder	Dimension:	Result
Pipe Spool A21	WJ-021	AB1234	24" OD x 0.625" WT	Comply
Pipe Spool A21	WJ-022	AB1234	24" OD x 0.625" WT	Comply
Elbow to Spool B9	WJ-045	CD5678	16" OD x 0.500" WT	Does Not Comply
Header Section H3	WJ-063	EF7890	30" OD x 0.750" WT	Comply
Support Bracket C4	WJ-072	GH3456	12" OD x 0.375" WT	Comply

## REMARKS/ TEST RESTRICTIONS:

MPI WAS CARRIED OUT 100 % ON BEVEL SURFACE AREANO RELEVANT INDICATION WAS FOUND DURING TIME OF INSPECTION

# Magnetic Particle Inspection Report

**James Edgar Thompson**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

## **Magnetic Particle Inspection Report:**

**Magnetic Particle Inspection: Techniques, Applications, Interviews Q&A, and Glossary** Chetan Singh, Magnetic Particle Inspection Techniques Applications Interviews Q A and Glossary is a complete guide to the non destructive testing technique of magnetic particle inspection MPI This NDT book covers the fundamental principles of MPI including the types of magnetic fields used the properties of magnetic particles and the various types of equipment used in the process In addition to the basic principles the magnetic particle testing book also covers advanced topics such as selecting the appropriate current for wet or dry inspection the use of UV light in MPI and the demagnetization process To provide readers with practical insights into the application of MPI the magnetic particle inspection book includes interviews with experts in the field who share their experiences and tips on best practices Finally the book features a glossary of MPI terms and definitions making it a valuable reference for both beginners and experienced practitioners Whether you are new to the field of Magnetic testing or looking to enhance your existing knowledge Magnetic Particle Inspection Techniques Applications Interviews Q A and Glossary is an essential resource that will help you develop a comprehensive understanding of this important non destructive testing technique *Report on the Inquiry on Magnetic Particle Inspection for Non-destructive Testing* United States. Department of Defense. Office of the Inspector General,1992 *Centrifugal Compressors in Hydrocarbon Processing Industries* Neetin Ghaisas,2025-11-07 This book offers a unique perspective on the aerodynamic and mechanical design features of centrifugal compressors It provides detailed explanations of auxiliary systems to support engineering professionals involved in the specification application and selection of compression strings and packages The book covers the fundamentals of centrifugal compressor casing and internal design complemented by in depth analysis of impellers and rotors Chapters on surge detection and control couplings dry gas seals and their support systems and lubrication oil systems provide a comprehensive understanding of the underlying theory operational principles and design processes Topics such as lateral rotordynamics advanced torsional analysis shop testing specialized engineering analyses and condition monitoring address key knowledge based engineering parameters These are essential for achieving industry standard compliant designs optimal performance safety and long term reliability in service In addition to discussing conventional concrete foundations the chapter on machinery modularization introduces innovative installation strategies These include shifting significant portions of site work to module yards reducing material movement at job sites and lowering costs associated with construction and pre commissioning activities Machinery and process modules contribute to optimized plot layouts ultimately reducing the total installed cost of process plant facilities Comprehensive and detailed technical specifications for inquiries and purchases aim to eliminate guesswork misinterpretation and scope gaps Errors or omissions in purchase orders can be costly and difficult to rectify during project execution The chapter on compressor specifications proposal evaluation and design coordination addresses these challenges using real world examples In light of global

initiatives to reduce greenhouse gas emissions a dedicated chapter explores the process of capturing and storing carbon dioxide CO<sub>2</sub> It discusses the two primary compressor types used for CO<sub>2</sub> compression provides an overview of sequestration processes and current challenges and highlights new technologies that extend the life of compressor materials Configuration options for improved overall efficiency are also examined

**Nuclear Regulatory Commission Issuances** U.S. Nuclear Regulatory Commission,1986

**Above Ground Storage Tanks** Sunil Pullarcot,2015-06-02 Covers All Site Activities after DesignAbove Ground Storage Tanks Practical Guide to Construction Inspection and Testing is an ideal guide for engineers involved in the mechanical construction of above ground storage tanks This text details the construction of storage tanks in accordance with the American Petroleum Institute requirements for AP

**Technical Reports Series** ,1992

**Standard Specifications for Welding of Structural Steel Highway Bridges** American Association of State Highway and Transportation Officials,1981

Department Of Defense Index of Specifications and Standards Federal Supply Class Listing (FSC) Part III November 2005 ,

**S.A.E. Handbook** ,1968

SAE Handbook Society of Automotive Engineers,1961

Licensee Contractor and Vendor Inspection Status Report ,1983

*Technical Abstract Bulletin* ,1980

**Bridge Inspection Manual - 82** New York (State). Department of Transportation. Structures Design and Construction Division,1982

Inspection Organization and Methods James Edgar Thompson,1950

**Proceedings - American Society for Testing Materials** American Society for Testing Materials,1961 Vol 12 includes under the same cover the society s year book for 1912

**Magnetic Particle Inspection** M.J. Lovejoy,2012-12-06 During the years since this book was first published in 1993 there have very few developments in the technology of magnetic particle inspection apart from improvements in instrumentation which has made the measurement of peak values of time varying currents practicable The major changes have arisen from health and safety and environmental concerns These involve chemicals and exposure of personnel to air borne electromagnetic fields and long wave ultraviolet UY A The changes in the acceptability of certain volatile halogenated hydrocarbons which led to the banning of 1 1 1 trichloroethane in 1995 were evident in 1993 The present discussions concerning the emissions of volatile organic compounds VOCs in general was also current and has now reached a stage where the effects of these deliberations will become evident over the next few years Concerns over the exposure of personnel to airborne electromagnetic fields has been current for some years as has discussions to the effects of long wave ultraviolet UY A on human skin Recommendations as to maximum permitted exposures over periods of time to both of these phenomena have been put forward and will doubtless form the basis of future legislation on the matter A number of new specifications have appeared notably EN European and ISO specifications and some of these are still in preparation Generally their impact will be minimal since these specifications are largely derived from existing documentation

*Report* ,1964

**National Cooperative Highway Research Program Report** ,1964

*Licensed Operating Reactors, Status Summary Report* ,1989

**The British Foundryman** ,1976

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