



YOUR CHALLENGE.
OUR EXPERTISE—ENGINEERING SERVICES.





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IIA is a trusted technology service partner, and they have earned a reputation for providing cost-effective and innovative inspection solutions. IIA applies best practices and delivers outstanding results.

- Confidential, Defense Contractor



ACCOUNTABLE

IIA understands safety is priority in this industry, and we take responsibility for always acting with integrity and in the best interests of our customers, our employees, and the public at large.




PROFESSIONAL

We confidently connect with our customers and are always detail oriented and solution focused. You can count on each of our team members to conduct themselves in a positive and personable way, highlighting IIA's commitment to customer service and respect.



ENGAGED

Everyone within IIA is eager to listen, communicate with, and fully understand our customers' needs and goals. Further, our team finds answers, explores possibilities, and provides successful solutions. Sometimes this means delivering accurate solutions by using traditional technologies or challenging a seeming impossibility and applying a new technology.



You may know our Engineering Services from Domson Engineering & Inspection. And now, we're part of a growing, full-service inspection company known as Industrial Inspection & Analysis, or IIA. Our name may be new, but you can expect the same technical expertise and decades of experience you've come to count on from Domson.

WHO WE ARE

In 2015, the founders of Industrial Inspection & Analysis, Inc.® (IIA) began with a vision to build a best-in-class, industrial inspection company with a breadth of high-quality service offerings for a variety of sub-sectors while ensuring a simultaneously important focus on customer service, technical leadership, and continuous improvement.

IIA offers timely, accurate, and reliable inspections, certifications, and testing solutions in both laboratory and field settings. Our company has grown to serve the whole of North America with a presence across the entire United States and a large and growing footprint in Canada and Asia.

As we grow, we remain focused on continuously improving our offerings, educating our already robust bench of expert talent, and expanding our vast service offerings. In doing so, our current and future customers benefit from our expertise, knowledge, connections, and industry leadership.

STORY-WORTHY SERVICE

Whether for a routine inspection or a unique and challenging lab, field, or examination project, IIA is committed to providing professional, fast, and accurate service each and every time. Our customers' success is priority, no matter what, and this is what makes our service story-worthy.



OUR FOOTPRINT

IIA has an extensive footprint and an ever-expanding global presence in the industrial sector. We are a leader in this market within the United States and Canada. Our highly-skilled industrial experts, technicians, and engineers provide a wide range of testing, inspection, certification, and engineering service offerings across North America and within multiple industries. IIA's leadership and expertise in the industrial sector, coupled with our ever-expanding geographic footprint, means we have the ability to mobilize quickly and offer services at competitive pricing.

Our customers praise us for our consistent professionalism, technical leadership, integrity, and expertise. IIA's expert multi-skilled technicians and engineers understand what's important to you, and they know how to provide it in a manner that serves you quickly and thoroughly.



HUNDREDS OF EXPERTS SERVING YOU

IIA's hundreds of employees are all knowledgeable, curious, and professional, and each has a unique skill set that ensures best-in-class service for you.



LOCATIONS ACROSS THE GLOBE

IIA operates many field offices and laboratories across the United States and also operates offices in Canada and China.



WHO WE SERVE

IIA provides services to a wide variety of customers across many sectors, including nuclear power, oil and gas, petrochemical, aerospace, defense, municipalities, lifting, and manufacturing. Across North America, we offer field inspections and repair services to support safe, reliable operations and keep your facility in compliance. We are also the only source you need for Lab and Engineering Services projects, including 3D and Laser Scanning.

Making the World Safer is our mission at IIA, and that mission extends to environmental, social and governance (ESG) performance. We are committed to operating in an environmentally and socially responsible manner and to helping our customers do so as well. We are proud to support our clients' clean energy projects and initiatives. And across every industry we serve, we offer inspection and engineering services that promote safety, efficiency and compliance with all applicable regulations.

SERVICES



ENGINEERING SERVICES

IIA offers solutions to your engineering challenges by providing design and integrity assessment services for structural, civil, mechanical, and reverse engineering, and also lift planning and welding engineering. Whether you're in construction, power generation, oil & gas, chemical, steel fabrication, or manufacturing industries, our experts can help you.



LIFTING SERVICES

We offer comprehensive Crane and Lift services for companies, municipalities, and all organizations that need annual inspections, maintenance, modifications, and repairs for lift and crane equipment, including top-to-bottom inspections of fire trucks. We also track fleet services and provide a detailed Fleet Safety Analysis (FSA) which helps Fleet Managers make critical equipment decisions.



INDUSTRIAL INSPECTIONS

IIA's expert technicians are available 24/7 to support your planned or forced inspection needs and operate with a focus on safety and compliance. Our multi-skilled technicians are the go-to experts to provide inspections and examinations utilizing technologies you are familiar with, such as automated and manual techniques, as well as traditional and specialty NDE methods, but also utilizing proprietary or in-house designed specialty tooling for inspection or retrieval challenges. There are no inspection projects that we cannot support.



LAB SERVICES

IIA is the only lab source you need for Dimensional Inspection, Calibration, Certification, Testing, Failure and Engineering Analysis. We have strategically placed specialized equipment to support our customers throughout North America.



**VISIT INDUSTRIAL-IA.COM
FOR MORE INFORMATION.**

ENGINEERING SERVICES

Dedicated to solving quality concerns and design challenges, the team at IIA creates comprehensive and cost-effective engineering solutions. As a full-service company, our team includes professional engineers representing a variety of disciplines, including structural/civil, mechanical, and welding and materials.

Our engineers understand the needs of your industry, and consistently strive to produce safe, sound, and cost-effective engineering solutions for your projects. From simple engineering support to complex, high-value projects, no task is too big or small for us to tackle head-on. And with every project, safety is our top priority.



AREAS OF EXPERTISE

Our team includes engineering professionals with expertise in the following areas:

STRUCTURAL/CIVIL ENGINEERING

REVERSE ENGINEERING

MECHANICAL ENGINEERING

**FORENSICS/ACCIDENT
INVESTIGATION**

LIFT PLANNING & ENGINEERING

WELDING & MATERIALS

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“IIA is our company’s preferred vendor for 3D inspection and reverse engineering projects. IIA is an excellent choice for quick inspection projects or an alternative to our internal operations.”

- Nate Taylor, ALLEGION

STRUCTURAL ENGINEERING

IIA is a leading supplier of structural engineering services for industrial, commercial, institutional and construction projects. Our goal is to provide our clients with cost-effective and high-quality engineering solutions.

Our core competencies are with steel and concrete design, with specialties in concrete foundations, concrete slab design, open web steel joist reinforcements, structural steel, and temporary shoring plans.

INDUSTRIAL DESIGN & PLANT ENGINEERING SERVICES

- Mezzanines, Equipment Access Platforms, Catwalks, Canopies & More
- Loading Docks & Ramps
- Overhead Crane Structure Design / Upgrading / Engineered Lifts
- Other Shop Cranes / Below The Hook Design
- Building Modifications and Expansions
- Fall Protection Systems, Including
 - Horizontal & Vertical Lifeline Systems
 - Guard Railing
- Pre-Start Health And Safety Reviews (PSR's) for:
 - Lift Equipment
 - Industrial Racking
- Heavy Machine Foundations and Bases
- Rooftop Unit (RTU) Equipment Supports
- Open Web Steel Joist Reinforcement (OWSR) Design
- Smoke Stack Design
- General Structural Steel and Concrete Design

COMMERCIAL BUILDING RESTORATION SERVICES

With expertise in steel and concrete structures, IIA provides building restoration engineering services to industrial, commercial, institutional, and hi-rise rehabilitation projects. Our project management team will ensure your project is completed on time and on budget, from start to finish.

You can rely on our professional engineers for the following:

- Rehabilitation of walls, parking garages, floor slabs, balconies, and foundations
- Structural reinforcement of existing structures
- Structural redesign/modification
- Open web steel joists reinforcement
- Temporary shoring, re-shoring, and scaffold design
- Building code compliance
- Concrete slabs, retaining walls, culvert design
- Repair procedures for concrete or steel structures
- Project management
- Project permitting & tendering



CONSTRUCTION STRUCTURAL ENGINEERING SERVICES

Our engineers can handle small to midsize construction projects from beginning to end, including such critical stages as: concept drawings, final approved design, shop drawings and member connections for fabrication, third party fabrication sourcing (*if required*), and final visual inspection and nondestructive testing on fabrication and erection (*if required*). Our services include:


- Engineering Support for Construction Projects
- Steel & Concrete Design for Building Add-Ons/ Expansions
- Demolition Plan & Review for Construction Projects
- Fall Protection Systems
- Critical Lift Planning
- Shop Drawing & Connections Design
- Pre-Condition & Pre-Construction surveys
- Roof Anchors & Davit Support Design
- Structural Analysis of Permanent or Temporary Structures
- Tower Crane Foundation Design
- Quality Verification Engineering (QVE)
- Structural Erection Plans

OHSA REG 213/91

We can assist with construction engineering requirements relating to OHSA Reg 213/91:

- Access Platforms
- Formworks
- Shoring / Reshoring / Scaffold Design
- Elevating Work
- Hoisting & Rigging
- Mobile Cranes & Tower Cranes





STRUCTURAL ENGINEERING (CONT'D)

OVERHEAD CRANE ENGINEERING & INSPECTION SERVICES

IIA provides expert design engineering and consultation services for the planning and layout of industrial overhead cranes of all types (single girder, double girder, top running and under running). We can supply you with data on the static and dynamic forces generated by an overhead crane operation, including the following:

- Maximum Wheel Load
- Side Thrust Load
- Collision Forces
- Overturning Moments (for free standing overhead crane systems)

These loads are essential and very important factors to consider when performing a proper analysis on all kinds of industrial buildings utilizing overhead cranes. By proper analysis, the design engineer will be capable of assessing the following important structural members:

- Roof beams (in case the overhead crane is an under running, roof-mounted crane)
- Building columns and corbels (or stools)
- Building bracing system
- Building foundation

All other additional loads on the building resulting from the overhead crane supporting structure (i.e. runway beams)

SHOP CRANE SERVICES

IIA also has the capability to custom design and assess the loads generated by existing crane types, including jib cranes, gantry cranes, workstation cranes and monorail systems.

PRE-START HEALTH AND SAFETY REVIEWS (PSR'S/PHSR'S)

Our engineers can perform PSRs on newly installed or newly modified cranes.

FALL PROTECTION EQUIPMENT TESTING

IIA can help your company set up proper fall protection measures to prevent employees from falling off elevated workstations, overhead platforms, and any work at heights. Our engineers can also inspect and recertify your fall arrest system as safe for use after the system has been used to arrest a fall.

Our complete fall arrest engineering system & package includes the following:

- Plan & Elevation Layout
- Anchor Design & Locations
- Proper Installation Instructions
- Lifeline Specifications
- Maximum Persons & Weights

Our engineers and inspectors can also assist with:

- Vertical Life Lines
- Lanyard Arrest Anchor Points
- Developing Rescue Procedures
- Inspection of Fall Protection Systems, Harnesses, Lanyards, etc.

STAGE & ENTERTAINMENT ENGINEERING SERVICES

We engineer solutions for various production companies and art festivals that ensure safety standards are upheld without compromising the aesthetics or functionality of the artist's vision.

Our engineers can help with the design of structures and mechanical systems for performance venues, entertainment productions, unique art exhibits, and more.

IIA can help engineer your project from the concept stage, stage production inspections to final construction. We can assist with any type of structures involving Christie lites, staging, high-strength cables, complex suspension systems, foundations/supports for heavy exhibits, and more.

Whatever the project, we will select the materials, develop the specifications, and establish the construction method needed to make it work.

LIGHT POLE & SIGN STRUCTURE DESIGN SERVICES

IIA provides a complete turnkey solution for the design and fabrication of the following structures:

- Commercial & Highway Light Poles
- Mounted, Suspended, and Free Standing Signs

Our complete engineering package includes an engineered design and shop drawings. Design load calculations consider factors such as wind (including vortex shedding action), seismic, ice, vibration, and fatigue. All designs are done in accordance with relevant codes and standards. Our material expertise includes steel, aluminum, and wood.

Reinforced Concrete Structure Design Services

- Retaining Walls
- Concrete Underground Storage Tanks
- Piles – H-Piles, Concrete (bored or driven)
- Caissons
- Rooftop Engineering (e.g., mechanical units, changes to occupancy)
- Water Treatment Plants
- Building Repairs
- Building Framework Design/Repair
- Parking Garage Design/Repair

CERTIFICATIONS & GUIDELINES

- AASHTO
- ASME
- AWS
- CSA/CWB
- CSA S6
- CSA S16
- CSA W47.1 Division 2
- ISO 9001: 2015 Registered QMS
- ISO/IEC 17025:2005
- ISO/IEC 17065:2012
- OSHA Reg 213/91
- Registered by the Canadian Welding Bureau under CSA W178.1



MECHANICAL ENGINEERING

IIA offers a wide variety of mechanical engineering services around the following areas: lift equipment, lift planning, machine design and drafting, design validation, finite element analysis (FEA) and fall protection services.

PRE-START HEALTH & SAFETY REVIEWS

- Industrial lift equipment
- Storage racking

DESIGN & DRAFTING

- Computer Aided Design (CAD) and engineering
- Machine design of shafts, gearboxes, bearing springs and more
- Heavy duty construction and mining engineering design
- Equipment design, modification and CAD conversion
- 2D / 3D drafting and part detailing
- CAD model reverse engineering from photo or sketch

FINITE ELEMENT ANALYSIS

- Linear Stress Analysis
- Static Stress Analysis
- Dynamic Analysis
- Fatigue Analysis
- Buckling Analysis
- Vibration, Impact or Drop Test Stress Analysis

FALL PROTECTION SYSTEMS

- Horizontal Static Lines
- Lanyard Arrest Anchor Points
- Confined Space Rescue Systems
- Rescue Procedure Development
- Fall Arrest



DESIGN VALIDATION

PRODUCT DESIGN VALIDATION & REVIEW

Many of our industrial clients have their own in-house product designers and CAD detailers, but lack in-house engineering capability. We can provide an engineering review of your product design to ensure it meets appropriate safety standards and is fit for use.

PRODUCT DESIGN REVIEW & VALIDATION SERVICES

Our experts can assist you with the following tasks:

- Research & recommend appropriate design standards
- Perform required design calculations
- Design certification & design verification
- Finite element analysis (FEA)
- Compliance review
- Load testing & stability testing
- Measure components and develop production-ready drawings
- Develop full 3D CAD sub-assembly and complete assembly drawings
- Optimize designs to save weight, cost, or increase operating capabilities
- Consider alternate materials for design improvements
- Prescribe, witness & document performance tests

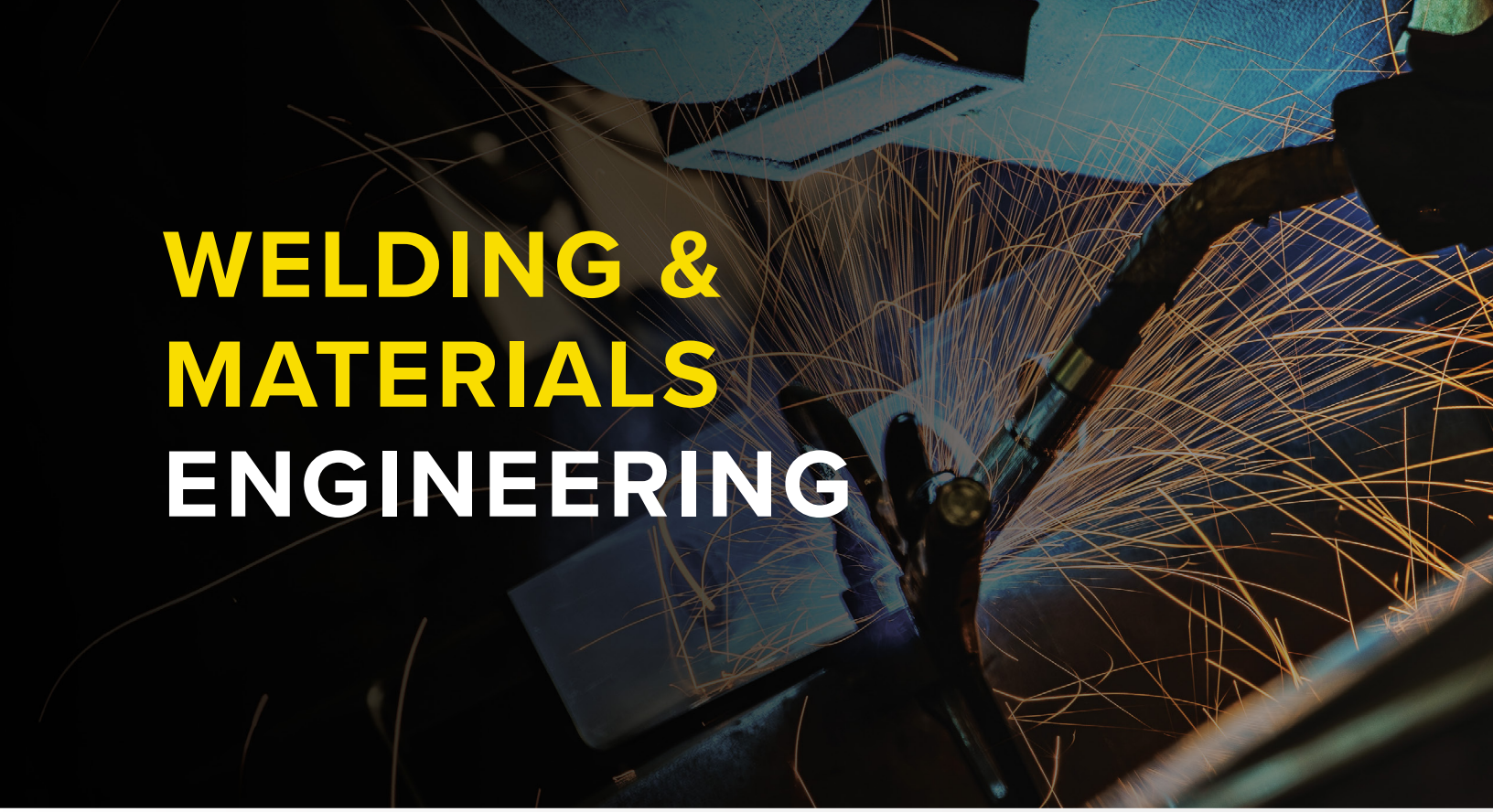
PRODUCT TYPES

Products we review include:

- Mining equipment & vehicles
- Lift devices
- Aerial equipment
- Jackstands & racking
- Access platforms (mezzanines, catwalks, etc.)
- General machinery
- Roll-over protection

HAVE EQUIPMENT THAT'S NEVER BEEN PROPERLY RATED?

Our engineering experts can analyze existing lift equipment that's never been rated and provide an accurate load/capability rating and a letter of certification.



WELDING & MATERIALS ENGINEERING

IIA is a trusted provider of welding engineering services to a variety of industries, including lift, mining, petrochemical/chemical, pipeline, and metal fabrication (steel and aluminum). Our services include the following:

- Retained Engineer Services for CWB Companies
- Weld Procedure & Data Sheet Development
- Welder Qualification
- Weld Failure Analysis
- Welded Product Design

CODE CERTIFICATION

Prepare specifications to any of the following codes and standards:

- ASME
- CSA / CWB
- AWS
- Validation
- Coordinate testing to validate welding procedures
- Document validation testing
- Provide Welding Procedure Specifications (WPSs) and Data Sheets (WPDSs) required for certification

WELD PROCEDURES

We develop procedures for the following product categories:

- Industrial and heavy equipment
- Pressure vessels and piping
- Pipelines
- Structures

OTHER SERVICES

- Consulting services
- Engineered Weld Repairs
- Metallurgical assessment and failure analysis for mechanical process equipment or welded components
- Codes and standards interpretation



INCIDENT INVESTIGATIONS & EQUIPMENT VALIDATION

When a lift does not go according to plan, or an equipment failure causes an accident, IIA can help you quickly get to the root cause. Our team is prepared to conduct (or oversee) a thorough, unbiased investigation and provide engineering solutions to ensure equipment will not endanger workers. Along the way, we will help you navigate regulatory requirements for accident reporting and resolution.

As a trusted leader in equipment integrity, we are frequently called upon to provide expert witness testimony in legal proceedings. Clients also partner with us for subrogation services that can reduce insurance costs. We bring an eye for detail to every investigation and experience that spans decades and industries.

OUR TEAM OF EXPERTS CAN HELP YOU:

- Determine the reasons behind a misadventure or equipment failure
- Meet Ministry of Labour or other regulatory requirements for accident reporting
- Reduce insurance costs through subrogation of accident responsibility
- Expert witness services in court proceedings

CERTIFICATIONS & GUIDELINES

- Certified Professional Engineers
- CWB 178.1 Certified Organization
- CWB 178.1 Level II and III Personnel
- CWB Certified CSA W178.10
- CGSB Certified Level II Personnel
- CSA Z150
- CSA Z151
- CSA B354.7
- CSA B335
- Federal & State Occupational Safety and Health Administration
- ASME B30
- ANSI B56.1
- ASNT Certified Level II and III
- ISO 9001: 2015 Registered QMS
- ISO 20474-5

LIFT PLANNING & ENGINEERING SERVICES

ENGINEERED CRITICAL LIFTS & RIGGING STUDIES

Engineered critical lifts help to ensure the safe delivery of any heavy load, and IIA has years of experience doing them. Our services include the following:

- Provide plan, elevation, rigging studies, and matting drawings as required
- Select appropriate cranes based on capacities, accessibility, and availability
- Size up rigging (rigging studies)
- Lift equipment design and custom rigging design
- Specify the crane location(s) and the initial position of the load
- Ensure that outrigger/crawler loads do not exceed soil capacity
- Inspect and certify crane and rigging equipment
- Check boom, load, rigging, and swing clearances during the erection and lifting phases
- Detail the lift sequence, including tandem lifts
- Provide safety precautions related to wind, communications or other site-specific hazards
- Perform pre-start visit to ensure crane and rigging set-up follows lift plan

CERTIFICATIONS & GUIDELINES

- CSA B354
- CSA Z150
- CSA Z248
- CSA C225
- NFPA 1914

CUSTOM LIFT EQUIPMENT DESIGN

Along with our catalogue of pre-engineered lifting products, we design and supply a variety of custom lift equipment to meet your unique needs, including:

- Custom Lifting Beams
- Manbasket and Manbasket Adapters
- Gantry Cranes and Monorails
- Pallet Lifters
- Coil Hooks
- Coil Lifting Frames
- Tongs
- Jib Cranes
- Forklift Booms
- Fork Extensions
- Wheel/Pallet Lifters
- Unique Equipment

CONCERNED ABOUT YOUR EXISTING EQUIPMENT?

Don't scrap it! If you already have existing lift equipment that has not been properly load rated, our team of engineers and inspectors can certify it to ensure it meets local codes and regulations.

ENGINEERED WELD REPAIR PROCEDURES

Has your crane sustained structural damage and you're not sure how to fix it properly? We can engineer a procedure that can help safely prolong the life of your equipment.

SPREADER BEAMS

IIA has a diverse product line of adjustable, pre-engineered, and fabricated on-demand spreader beams and lifting beams. We also inspect and certify spreader beams and lifting beams in accordance with local regulations.

REVERSE ENGINEERING

IIA is one of the original pioneers in using 3D scanning for reverse engineering, geometry recreation and 3D modeling. Our process is highly refined and optimized around many industry-specific challenges. IIA provides reverse engineering services to an array of industries, including medical device, heavy equipment, firearms, as well as tooling and plastic companies.

BEFORE WE BEGIN

Before you start your next modeling or reverse engineering project, here are some things to consider:

- Have an idea of how this file will be used. What are the “next steps” for this model once returned to you? (This is very helpful to us when quoting.)
- Provide photos of all different sides of the part. We need a good understanding of the size, shapes, and features involved.
- Your requirements for detail/accuracy to the physical part.

MODELING PLATFORMS (SOFTWARE)

IIA can build files for use in any modern software, as well as many legacy platforms. Our primary platforms are SolidWorks and Creo/Pro-E, each fully up to date with the latest versions. (We often retain legacy licenses for those customers who need it). If we do not have your CAD software of choice, we can output neutral file formats such as .igs, .stp, .x_t, and many more.

VERIFICATION & PROJECT HANDOFF

Accuracy is paramount to the quality and the success of any reverse engineering project. IIA utilizes our own Deviation Analysis process to ensure that each feature and each characteristic is accurate to the scanned part. It's used throughout the reverse engineering process as the model tree grows with every additional feature and every iteration.

Every project ends with a conference call or screen share to ensure that the results are understood and fit your requirements. Deviation Analysis is used here as a final proof-of-work at the end of every reverse engineering project to demonstrate a precise point-by-point comparison that what we have created matches your physical part as scanned. This level of precision in verification is virtually impossible with manual methods. A Deviation Analysis makes full verification cost-effective and is critical to assure the accuracy of the resulting model.

CERTIFICATIONS & GUIDELINES

- Certified Professional Engineers
- CWB 178.1 Certified Organization
- CWB 178.1 Level II and III Personnel
- CGSB Certified Level II Personnel
- CSA Z150
- CSA Z151
- CSA B354.7
- CSA B335
- CWB Certified CSA W178.10
- Federal & State Occupational Safety and Health Administration
- ASME B30
- ANSI B56.1
- ASNT Certified Level II and III
- ISO 9001: 2015 Registered QMS
- ISO 20474-5



NON-DESTRUCTIVE EXAMINATION SERVICES

We are the go-to industry expert for **Non-Destructive Examination (NDE)** services for new construction projects using traditional technologies, such as **X-Ray, Magnetic Testing, Dye Penetrant Testing (PT), and Phased Array Ultrasonics (PAUT)**. We have decades of experience in providing weld quality inspection services for upstream, mid-stream, and plant construction for buried pipeline and fixed equipment and in conducting Remote Visual Inspection Services (RVI) supporting foreign object retrievals, as well as remote access verification of quality and cleanliness.

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IIA's NDT technicians are the best in the industry. Nobody in this industry compares to the top-notch team I've worked with from IIA.

- Chris, NDE Manager,
NORTH AMERICA'S LARGEST
TANK CAR MANUFACTURER



TRADITIONAL NDE

- Radiography (RT/CR/X-Ray)
- Magnetic Particle (MT)
- Penetrant Testing (PT)
- Ultrasonic Thickness Testing (UTT)
- Visual Testing (VT)

SPECIALTY NDE

- Proprietary Technologies
- Phased Array Sectorial Scanning
PASS® Valve Examinations
- Precision Ultrasonic Testing
- Absolute Recordable Manual
Ultrasonic Testing (ARMUT®)

ADVANCED NDE

- Automated Corrosion Mapping (Internal)
- Automated Corrosion Mapping Laser
Profilometry (External)
- Phased Array (PAUT) Manual & Automated
- Full Matrix Capture (FMC)
- Time of Flight Diffraction (TOFD)
- Shear Wave
- Guided Wave Testing (GWT)
- In-Line Inspection (ILI Validation)
- Pulsed Eddy Current
- Weld Quality Inspection

RVI

- Internal Visual Inspections of
anything from ¼" and above

OTHER SERVICES

- Post Weld Heat Treatment
- Ferrite Testing
- Hardness Testing
- Positive Material Identification
(PMI)
- Program and Procedure
Development
- B-Scan Encoder
- Magnetic Flux Leakage (MFL)
- Wall Climber UT Corrosion
Mapping
- Vacuum Box Testing
- Borescope

CERTIFICATIONS & GUIDELINES

- All Certifications Based on
ASNT Guidelines
- Multiple State Licenses for
Radioactive Materials
- In-Line Inspection Validation (ILI)
- Compliance to Pressure
Equipment Directive 97/23/EC
(European Certification)
- Compliance to Pressure
Equipment Regulations 1999,
ASNT Level III
- IRRSP Certified



PLANT SERVICES

IIA is the go-to professional providing safe, quality inspections for outage and maintenance needs across North America. IIA's breadth of technicians are certified to industry standards, understand your plant operations, and have the ability to respond to multiple concurrent outages. Our team provides outage planning; as well as visual, magnetic particle, penetrant, and ultrasonic inspections; and much more. IIA's team ensures the continued reliability and availability of your plant.

We have been serving the pulp and paper and power industries for decades and are the trusted leader in these sectors. Our team consists of highly qualified professionals, including Certified Welding Inspectors, who provide expert and story-worthy service with each and every project.

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IIA's responsiveness in completing three last-minute and urgent projects is appreciated, and IIA's team did a fantastic job in communicating, sharing in that sense of urgency, and providing us with exactly what we wanted. ”

- Gregg Maddox, Great Plains Industries

MECHANICAL INTEGRITY SERVICES

ABOVE-GROUND STORAGE TANKS

- API 653 inspection
- Visual inspection
- Magnetic flux leakage floor testing
- Ultrasonic testing (A & B scans)
- Vacuum box testing of lap welds
- Corrosion surveys
- Foundation & settlement surveys
- Wall crawler UT corrosion mapping

PRESSURE VESSELS

- API 510 inspection for planned outages
- Visual & remote visual inspection (RVI)
- Wall thickness readings
- Magnetic particle/liquid penetrant inspection

PIPING/PIPE RACK STRUCTURES

- API 570 inspection for planned outages
- External visual
- Internal visual/borescope inspection
- Ultrasonic thickness testing
- NDT on nozzles/appurtenances

HEAT EXCHANGER & BOILER INSPECTION

- Internal rotary inspection system (IRIS)
- Remote field testing (RFT)
- Eddy current (ECT)

WATER TREATMENT/PROCESSING PLANT EQUIPMENT

- Internal rotary inspection system (IRIS)
- Remote field testing (RFT)
- Eddy current (ECT)

SERVICES

- Outage Planning
- Boiler Visual Inspection
- Tank and Piping Inspections
- Burner Set Up
- Quality Control/Quality Assurance
- Hydrogen Damage Inspection
- API 653 Tank Inspections
- API 570 Piping Inspections
- API 510 Pressurized Vessels
- IRIS & Near Drum Testing

INSPECTION METHODS

- Visual Inspections
- Eddy Current Testing
- Magnetic Particle Testing
- Penetrant Testing
- Radiographic Testing (RT)
- Ultrasonic Mapping and Inspections
- Ultrasonic Shear Wave
Weld Examinations

CERTIFICATIONS & GUIDELINES

- CWB Certified CSA W178.10
- ISO 9001:2015 Registered QMC
- ISO/IEC 17025:2005
- ISO/IEC 17065:2012
- All Certifications Based on Guidelines
in SNT-TC-1A and CP189
- In-Line Inspection Validation
- American Welding Society Pressure
Equipment Directive 97/23/EC
(European Certification)
- Pressure Equipment Regulations 1999
- ASNT Level III
- IRRSP

NUCLEAR SERVICES

IIA offers full-service exams, support, solutions, and equipment, ensuring your plant is safe, clean, and compliant. IIA also provides strategic partnership support for Section XI and non-Section XI examinations.

IIA provides maintenance services and a variety of automated and manual Non-Destructive examinations (NDE). We use a combination of conventional, cutting-edge technologies and proprietary technologies, including Phased Array Sectoral Scanning (PASS™), AIRIS, ARMUT, and coordinating data tracking software.

We conduct thorough and reliable facility inspections and deliver critical information in a timely manner for every part of your facility and all critical components: piping, core shroud, dissimilar metal welds, storage tanks, steam generator, dryer and heat exchangers, turbines, Threads in Flange (TiF), Boiling Water Reactor (BWR), Pressurized Water Reactor (PWR), specialty reactors, and more.



VISIT [INDUSTRIAL-IA.COM/IIA-INDUSTRIAL-INSPECTIONS/NUCLEAR-SERVICE/](https://www.industrial-ia.com/IIA-INDUSTRIAL-INSPECTIONS/NUCLEAR-SERVICE/) FOR MORE INFORMATION.



SERVICES & TECHNOLOGIES

- Computed Radiography
- Conventional Radiography
- Dye Penetrant Testing
- Magnetic Particle Testing
- Phased Array UT
- Ultrasonic Thickness Testing
- Advanced Inspection of Reactor Vessel and Internals System (AIRIS™)
- Absolute Recordable Manual Ultrasonic Testing (ARMUT®)
- Phased Array Sectorial Scanning (PASS® Visualization Software)
- FME search and retrieval

CERTIFICATIONS & GUIDELINES

- All Certifications Based on Guidelines in SNT-TC-1A and CP189
- Texas Department of State Health Services – Radioactive Materials Licensing (MC 2835)
- New Mexico Environment Department Radioactive Material License
- In-Line Inspection Validation
- 10CFR50, Appendix B
- 10CFR, Part 21
- ANSI Standard N45.2
- American Welding Society
- Pressure Equipment Directive 97/23/EC (European Certification)
- Pressure Equipment Regulations 1999
- ASNT Level III
- IRRSP
- ASME NQA-1
- NUPIC and NIAC Approved Vendor

LIFT SERVICES

With nearly 50 years of lift Inspection experience, IIA provides aerial and lift device inspections as well as certifications to a variety of companies, municipalities, and public and private utilities across the US and Canada, including inspection and testing for fire department trucks from top to bottom.

IIA performs all inspections, as well as visual, operational, and non-destructive testing services for your fleet which ensures safety and compliance of all your equipment. In turn, your operators can confidently provide services to customers and municipalities knowing the equipment IIA has serviced is safe and compliant.

You receive fast, friendly, and professional services with easy-to-read reports and fleet management tracking, which streamlines service and maintenance needs.

INDUSTRIES WE SERVE

- Fire Departments
- Construction
- Tree Cutting
- Utility
- Mining
- Oil & Gas
- IOU's

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Industrial Inspection & Analysis exceeded their competitor's inspection rate by 30%.

- Nick Oney, Fleet Manager
Kendall Vegetation Services

GO TO INDUSTRIAL-IA.COM FOR A LIST OF ALL THE INDUSTRIES WE SERVE.



SERVICES & TECHNOLOGIES

- Visual/Operational Inspections
- Load, Drift, Timing Tests
- Hardness Test of Non-Ferrous Metal Components
- Magnetic Particle and/or Dye Penetrant
- Test of Critical Welds and Casting
- Hydraulic Oil Analysis
- Ultrasonic Inspection of Accessible Pins
- Turntable Bolt Torque Check
- Waterway Systems Check
- Horizontal Bend Test of Ground Ladders
- Ground Ladder Hardware and Hook Tests
- Extension Ladder Hardware Test
- Heat Sensor Check and Replacement
- Liquid Penetrant Inspection of Rung Welds
- Rack Testing
- Hot Stick Cleaning, Waxing, Testing
- Laboratory Equipment Examination
- Wet Testing at 75,000 V/Foot
- Dry Testing at 50,000 V/Foot

CERTIFICATIONS & GUIDELINES

- CSA B354
- CSA C225
- CSA Z150
- CSA Z151
- CSA Z248
- ANSI A92.2, ASTM 914, and Crane Certification Association of America Committee Members on Staff
- Insurance Coverage Beyond General Liability – Errors and Omissions Insurance
- Internal Quality Control and Quality Assurance Audit Programs
- ISO/IEC 17020 Accredited
- Federal OSHA Certified
- Cal-OSHA Certified
- Washington State Construction Crane Certified
- Protocols meet current guidelines of the Institute of Electrical and Electronics Engineers (IEEE) Standard 978
- Protocols are compliant with current OSHA 29 CFR Part 1910 rules and regulations

CRANE SERVICES

IIA is equally focused on quality and safety, which makes us the full-service industry leader in crane care. With 20 years of experience, you can trust us to consistently use the highest quality materials and ensure exceptional workmanship for all projects: routine, preventative, or emergency service or fabrication and installation of new crane equipment. Our experts conduct testing, operator training, certification, OSHA/ANSI/ASME inspections, part sales, and repair of all crane systems.

We are always up-to-date on the latest standards, regulations, and technology affecting the lift industry through participation on standards committees and user associations. We track your fleet's inspection needs and inform you when your equipment is due for inspections.





SERVICES & TECHNOLOGIES

- Crane Inspections
- Lifting Device Inspections
- Strap and Sling Inspections
- Fabrication
- New Installations
- Predictive Maintenance
- Parts
- Personal Safety Equipment Inspections (Harness, Lanyards, etc.)

CERTIFICATIONS & GUIDELINES

- CSA Z150
- CSA Z248
- Level III NDT on Staff On-Site Safety Coordinator
- ANSI A92.2, ASTM 914 and Crane Certification Association of America Committee Members on Staff
- ISO/IEC 17020 Accredited
- Federal OSHA Certified
- Cal-OSHA Certified
- Washington State Construction Crane Certified
- New Mexico GS-29 License Number: 90472
- California Number: 815024



FIRE EQUIPMENT TESTING SERVICES

IIA is the go-to expert for top-to-bottom fire truck inspections, including hose, pump, ladder and other apparatus. Using our mobile pump tester and customized methodology, we conduct fast, thorough, and reliable services that meet or exceed NFPA guidelines. With our refined methods, we can test in one day what it takes others several days to complete — and that means less downtime for your emergency vehicles.

WITH OUR SYSTEM, OUR EXPERTS CAN INSPECT 20,000 FEET OF HOSE PER DAY.

“

Thank you for coming out and doing our inspections on such short notice. It's greatly appreciated. IIA's technician was top notch. He was very knowledgeable and friendly, and we are going to have him back to perform our next inspections. Thank you!

- City of Redfield Fire Department

VISIT [INDUSTRIAL-IA.COM/IIA-FIRE-DEPARTMENT](https://www.industrial-ia.com/IIA-FIRE-DEPARTMENT)

LAB SERVICES



With roots that date back nearly a century, IIA has grown to become one of the largest and most trusted providers of lab services in North America.

We provide a full range of industrial and commercial laboratory services and work across a spectrum of industries. Our capabilities include metallurgical, non-destructive, dimensional, mechanical, EMC/EMI, consumer goods, calibration, environmental and chemical analysis.

Whether it is supplementing capacity with occasional overflow, performing pre-compliance testing or third-party evaluation, contracting a CMM Programmer for new parts, or outsourcing your entire quality department, IIA's Lab Services can meet all of your lab needs.

SERVICES & TECHNOLOGIES

- Dimensional Inspection
- First Article Inspection
- Mechanical Testing
- Product Testing
- Coating Testing
- Electronics Testing
- Conventional NDE
- Radiography
- Liquid Penetrants
- Magnetic Particle
- Ultrasonics
- 3D Scanning and Data Capture
- Calibration
- Pyrometry
- EMC, RF, and EMF Testing
- Chemical Testing
- Environmental Testing
- Metallurgical Testing

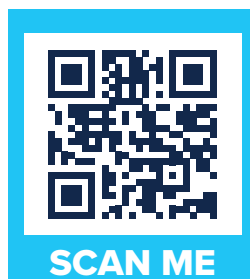
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Everyone here agrees, IIA is quick in all areas: communication, response, and return of parts. Thank you.

- Tyler Walsh, Protolabs



Making the World Safer



Canadian Headquarters
190 Wilkinson Rd, Unit 2
Brampton, ON
L6T 4W3

Corporate Headquarters
3550 Lenox Road NE,
Suite 1525
Atlanta, GA 30326

1-877-789-1326
industrial-ia.com

Engineering Services CN 4/2022