

**JJ WHITE
INCORPORATED®**

integrity + versatility + quality = value
since 1920

INDUSTRIAL



You Can Count on JJ White

A TRADITION
OF EXCELLENCE
SINCE 1920

Clients have been counting on JJ White Incorporated for outstanding construction services since our founding in 1920 as a mechanical contractor. As a family-run business, we take great pride in our track record of handling projects with total safety and complete customer satisfaction.

Over the past nine decades, we have confronted virtually every construction challenge imaginable, and in so doing, we have developed the resourcefulness to adapt to any project. We continue to add services and expertise that enable us to be a single-source, multi-trade contractor for a wide range of clients.

A particular JJ White advantage lies in the nearly exclusive use of our own workforce and dedicated fabrication shop. This strategy gives you the benefits of accountability, low cost, flexible scheduling, and on-time completion.

We build satisfying long-term client relationships, founded on trust and confidence. You can count on JJ White for excellence in all your construction needs.

TO OUR STAKEHOLDERS:

I am excited to have this opportunity to share with you, our Stakeholders, the principles, services, and future of our Company. Most important to us is providing our clients with the highest value. As my father, James J. White III, taught me, superior value is derived in a culture that cherishes the principles of Integrity, Dependability, and Quality. Along with these core principles, we are committed to ensuring a safe work environment and having the versatility to meet our customers' full range of construction needs.

JJ White is the largest and most comprehensive construction company in the Mid-Atlantic region. Today we support Healthcare, Pharmaceutical, Educational, and Commercial building construction and renovation, as well as large scale Petrochemical and Utility outages. The addition of our API Tank Construction and Repair Group and Exchanger Hydroblasting/Extraction Group allows us to provide our Petrochemical customers with "one-stop" shopping. Our Electrical and HVAC Groups, which started as extensions of

our Mechanical Group, have solidified our position as the premier full-service contractor in the region.

Our General Construction/Construction Management Group has grown from performing small-scale renovations to constructing and managing multi-story Greenfield sites that incorporate the concepts of LEED, ASHE, and Green Advantage. We believe that this breadth of services coupled with our depth of experience is unparalleled in the industry.

JJ White is equipped to adapt and grow with your future needs, whatever they may be. Through the combination of Integrity, Dependability and Quality, along with Safety and Versatility, we will provide you, our Stakeholders, with comprehensive services that exceed your expectations.

Very truly yours,

James J. White, IV
President

The basic **honesty + integrity** of the business organization you have created is testimony to the core beliefs & strengths of its principals.

| UNIVERSITY OF PENNSYLVANIA





MECHANICAL CONSTRUCTION

- + Specialists in five areas: Pharmaceutical, Commercial, Petrochemical/Industrial, Power Generation, and Institutional
- + Single-source responsibility for complete turnkey projects, or can contract solely for the mechanical portion
- + Value engineering and life cycle analysis
- + Efficient, flexible planning and scheduling with on-time, on-budget completion
- + All welding procedures are third-party audited and certified by the ASME

Petrochemical | Industrial | Power Generation

JJ White has been performing in the Refinery/Petrochemical Process industries since 1933, constantly evolving and growing to incorporate the latest industry technologies. We specialize in Turnarounds and Outages, with many unit and full-plant shutdowns completed on or ahead of schedule. We have extensive experience in complete unit installations, including commissioning and start-up. Our expertise in rigging, piping, and welding has also served us well in the Pulp and Paper, Steel, and Power/Utility industries. Where required, we take pride in the ability to complete projects without a need for equipment shutdown, saving clients time and money in their operations as well as in the installation.

ELECTRICAL SERVICES



For a new or existing building, we can coordinate, manage and install the electrical system with the perfect combination of utility and affordability, as well as offer complete general, mechanical and electrical contracting services. For standalone electrical installations or complete turnkey construction services, we have the experience and reputation that will make your project a success.

J. J. White offers a full range of services to meet all your Electrical needs including:

- + Commercial electrical installations
- + Rough wiring with conduit and other types of approved wiring methods
- + Installation of low voltage controls
- + Installation of security systems
- + Installation of fire alarm equipment and devices
- + Underground services, including tie-ins to utility company transformers
- + Communication cable and equipment installations
- + Complete solar and wind energy installations

...they did a **fantastic job** on such short notice, and as always, their **professionalism** is reflected in the finished product they provide. Again, thanks to you and all your guys.

| **SUNOCO**





THE EXCHANGER GROUP

You can count on JJ White for all of your heat exchanger and condenser services, including extraction, hydroblasting, and bolt torquing. Whether you need us for a turnkey project or for an on-going maintenance program, you can choose from our full menu of services for the refinery, petrochemical, and utility industries.

- + **Blind-to-Blind Turnkey Services:** complete handling of an exchanger or condenser, including isolation, disassembly, bundle extraction, cleaning, reassembly, and hydrotesting
- + **Abrasive Water Blasting:** 36,000 psi to 40,000 psi, pipe 4" and up

- + **High-Pressure Services:** high pressure bundle cleaning, in or out of the shell ranging from 10,000 psi to 40,000 psi
- + **Pull/Push Services:** provide extraction services to work with a customer's own cleaning contractor and maintenance forces
- + **Pull/Clean/Push Services:** extraction equipment cleaning and labor to work with a customer's maintenance forces
- + **High-Pressure Water Cutting:** 40,000 psi precision cutting up to 4" carbon steel, stainless steel & various hardened steels, tank door sheets, and concrete

Skilled professionals, each with at least 20 years of experience in both extraction and high-pressure cleaning, perform all services. Each technician possesses an intimate understanding of the procedures and equipment, and has the expertise and tools to safely complete the job on time and within budget. We specialize in refineries and other process plants, and we are a member of the American Fuel & Petrochemical Manufacturers (AFPM) and the Water Jet Technology Association (WJTA).

Exchanger/Condenser Cleaning Equipment

JJ White has invested millions of dollars in state-of-the-art equipment for all facets of exchanger work, with most equipment fully automated for a high safety factor. Whatever your exchanger needs, you can count on our professionals for quality services.

- + For bundle extraction we utilize truck-mounted or crane-suspended aerial bundle extractors, hydraulically driven to deliver up to 60 tons of torquing power. The aerial extractors can safely remove and install tube bundles weighing up to 30 tons; the truck mount is rated 16 tons at an elevation of 23 feet above grade, and can easily handle 30 tons with an assist crane.
- + High-pressure cleaning equipment includes shell-side tube cleaners, rigid and flexible multi-lance tube ID cleaners, exchanger shell ID cleaners, hydroblasting shotguns, and high pressure water pumps with pressure ranges from 8,000 psi to 40,000 psi. We also have specialty apparatus for high-pressure cleaning of exchanger components, tower and drum internals, and piping.
- + We manufacture our own hoses to ensure the highest quality and safety of our High Pressure Operations.

I appreciate the **dedication** and **hard work** shown by all of the organizations in the refinery and by J.J. White. ...I was impressed by the **professionalism** shown by all in dealing with the issues and moving towards solutions. Thanks again for all of your many contributions.

| VALERO





API TANK CONSTRUCTION AND REPAIR

JJ White delivers single-source excellence in construction, maintenance, and repair of aboveground tanks for a variety of applications, such as refining, chemicals, ethanol, biofuels, petrochemicals, product storage, fire protection and wastewater tanks, and more. We offer both construction of new tanks and the full range of repairs, modifications, and upgrades to existing tanks.

For tank repair services, speed is often crucial, and our group is ready to mobilize at a moment's notice. Each foreman has a heavy-duty truck and trailer fully outfitted to perform any repair work to the applicable Codes. Our skilled personnel can be at your location within hours with everything necessary to perform repairs, including specialized hand tools, burning, welding, and rigging equipment, and all necessary safety equipment. We can immediately deal with repairs to shells, bottoms, fixed or floating roofs, cathodic protection, liners, and leak detection systems.

The Tank Group also provides design and construction of new field-erected tanks per API and other codes. Along with the tank itself, we provide mechanical engineering, civil engineering, foundations, and piping to offer our customers "one-stop" shopping. Our diversity gives us ultimate control over safety and scheduling concerns, without having to rely on other contractors.

As with all JJ White services, experience and expertise are our hallmarks. Our management personnel, with an average experience of 18 years in the tank business, oversee our experienced field personnel. We have "on-staff" employees who are certified API 653 inspectors, and our chief engineer is a registered professional engineer and sits on the API 650 subcommittee.

I would like to compliment all of your boilermakers, pipe fitters, tank division, scaffolders, laborers and your support personnel in their **professionalism and skill** in the craft supplemented with your **front line supervision**.

| VOGT POWER INTERNATIONAL

Tank Services

- + Design, fabrication, and erection of API 650, API 620, AWWA D-100, NFPA-22, & NACE RPO294-94 tanks, both carbon and stainless steel
- + Cone roof tanks
- + Open top tanks
- + Dome roof tanks
- + Fabrication and erection of large plate structures, including scrubbers, precipitators, clarifiers, hoppers and bins
- + Certified repair work, including secondary bottom design and installation, bottom replacements, shell ring replacements, design, fabrication and installation of additional shell rings, replacement cone roofs, design, fabrication and installation of new cone roofs, complete tank revamps, and tank jacking
- + Exhaust stack fabrication and erection
- + Primary and secondary seal replacements





YOU CAN COUNT ON JJ WHITE

E2 Enduring Excellence

E2 Enduring Excellence is JJ White's Health, Safety, Environmental, and Quality Management System. We are committed to using this system to continually meet or exceed the expectations of our customers while maintaining compliance with ISO 9001 and 14001 Standards, and RC14001.



C-Change: Safety First, Last, & Always

You can always count on JJ White for safety. Through the implementation of our corporate safety initiative, C-Change, we are tasked with the responsibility to Change the culture, Challenge past practices, and Certify the results on a daily basis — all in accord with established safe practices and procedures.


Our exemplary safety record is grounded in careful planning, good work techniques, and training of every single employee. We employ a fulltime staff of safety professionals who oversee twice-weekly “toolbox talks”, a safety reward program, and the use of job safety analysis (JSA) cards, along with state-of-the-art electronic safety inspection programs.

We've been honored with numerous awards such as Commonwealth of Pennsylvania PennSafe Award, TAUC (The Association of Union Contractors) Safety Award, and AMC Safety Award (Associated Maintenance Contractors). JJ White was awarded site specific OSHA VPP Star Worksite certification, and has the distinction of being the first Region III contractor to achieve OSHA'S VPP Star Mobile Workforce certification, which uniquely places JJ White in the Top 0.03% of all contractors in the USA.

As we approach a century in the construction business, we attribute our growth and success to our relationship with our customers. **Your success is our success.**

JJ WHITE INC. is proud to be affiliated with the following organizations.






J J WHITE INCORPORATED[®]
SINCE 1920

CONSTRUCTION MANAGEMENT
GENERAL & MECHANICAL CONSTRUCTION
EXCHANGER HYDROBLASTING / EXTRACTION SERVICES
HVAC SERVICES / FACILITIES MAINTENANCE & OPERATION
API TANK CONSTRUCTION & REPAIR
ELECTRICAL, SOLAR, AND RENEWABLE ENERGY

JAMES J. WHITE IV
PRESIDENT



5500 BINGHAM STREET
PHILADELPHIA, PA 19120
TEL 215-722-1000
FAX 215-745-6229
EMAIL jwhite@jjwhiteinc.com
www.jjwhiteinc.com

JJWHITEINC.COM



CONSTRUCTING WITH KNOWLEDGE.
SERVICE WITH INTEGRITY AND SAFETY.®

A JJ White Tradition Since 1920

JJ WHITE INCORPORATED

5500 Bingham Street
Philadelphia, PA 19120

PHONE 877.JJWHITE (877.559.4483)

FAX 215.745.6229

info@jjwhiteinc.com

JJWHITEINC.COM

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