



IAC/MHC EPC

CORE COMPETENCIES PRESENTATION

IAC/MHC CORE COMPETENCIES

Equipment: APC – Baghouses; Bulk Material Handling – Mechanical and Pneumatic; Welded and Bolted Tanks; Automated Controls; Rock Product Dryers; Recirculating SO₂ Dry Scrubbers; Carcinogenic Dust Control and Removal Systems.

Design/Build System: EAF Furnaces and Melt Shops; Mining; Secondary Smelting; Food; Activated Carbon; Coal Fired Boiler Islands; Acid Gas Control Flue Gas Treatment; Frac Sand Facilities; Transload Terminals.

Services: Engineering – Civil, Structural, Mechanical and Electrical; New Plant Design/Layout; Adelphi Construction Co. Plant Construction and Design/Build Services.

EPC: Total Processing and Plant Facility Design/Build.

Territory: APC, Material Handling Equipment and Supplies Worldwide; Turnkey Services – North America, Mexico, Caribbean and Latin America.

IAC CONSTRUCTION COMPANY

Project Engineering

Demolition

Installation

Turnkey Service



A D E L P H I
C O N S T R U C T I O N L C

Air Pollution Control

Bulk Material Handling

Pneumatic Conveying

MACT Compliance



- **OSHA & MSHA Certification**
- **Millwright Precision Execution**
- **Multiple Field Crew and Superintendents**



IAC/MHC is an industrial EPC design/build and original equipment manufacturer of baghouses, drying and air handling equipment; dry bulk materials handling and storage systems; and mechanical and pneumatic conveying systems.

ETHANOL PLANTS



IAC SCOPE OF WORK

- Combustor
- Dryers
- Boiler – HRSG
- M-Pulse Baghouse & FGD
- ID Fan & Motor
- Duct from Boiler to ID Fan
- Fly Ash Handling
- Silo & Truck Loadout
- I&C's (APV & Flyash)
- Automated Controls
- Mechanical Installation
- Start-up



PROJECTS

Corn, LP | Goldfield, IA
Lincolnway Energy | Nevada, IA
Red Trails | Richardton, ND
Heron Lake Energy | Heron Lake, MN

Projects Value: \$85 Million

DRYERS



- Hotmix
- Biomass/Wood Pellets
- DDG
- Frac Sand (U.S. Patent 9,322,595)



BIOMASS PELLET PLANT – 70,000 TPY

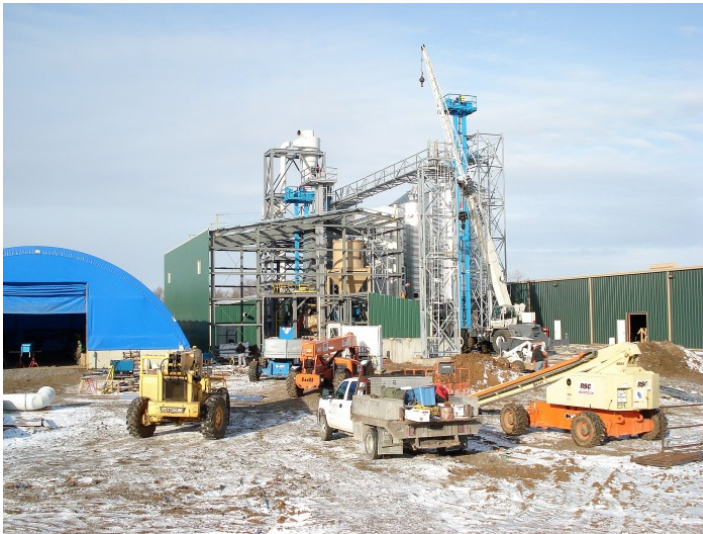


AGRICULTURAL BIOMASS PELLETS



- EPC Contract
- Show Me Energy Cooperative was a first of its kind plant in the U.S.
- Raw materials include baled hay, grass seed hulls, wood shavings, and shredded money from the Federal Reserve Bank
- 400 Ton Silo storage
- 24 TPH Bagging line and Warehouse
- Bulk or Bagged product sales

Project Value: \$12.5 Million



Nucor Steel, Convent, LA – DRI Plant

Industrial Accessories Company was selected as EPC contractor by Nucor Steel to engineer, build, deliver and install IAC's OEM DRI dust collection and material handling system for Nucor's new direct reduced iron (DRI) plant valued at over \$1 billion. This new Nucor DRI facility was the first DRI facility to be built in the US in 45 years. This facility was a flagship project for Nucor Steel. IAC was on site for over three (3) years and employed over 100 construction workers during the course of the contract, **valued at \$34.7 million.**



IAC was again selected to act as **EPC contractor for Nucor's \$200 million DRI pelletizing plant.** IAC provided all of the more than twenty (20) IAC OEM process and fugitive dust collecting baghouses for the DRI plant as well for the pellet plant. IAC designed and built 2 each 30 metric TPH vacuum conveying transporters to deliver DRI fines to the DRI pelletizing plant.



Nucor Steel, Convent, LA – DRI Plant (Continued)

The DRI facility has an annual output of 2.5 million tons of iron. By the time the DRI plant was dedicated, it had achieved the highest performance of any stand alone DRI plant in the world. The Convent plant receives imported ferrous oxide, conveying the iron ore from a Mississippi River terminal to the DRI plant. There, the material reacts with natural gas at extremely high heat, the oxygen is removed from the ore, and refined iron pellets are conveyed back to river barges that ship the product to Nucor's steel mills across the Southeast U.S. where the iron produced at the facility combines with recycled scrap to make high-quality steel products, such as sheet, plate and special bar-quality steel.

Drake Cement, Drake, AZ Green Field Cement Plant

Industrial Accessories Company provided Design/Build services at ARPL's new cement plant which was the last green field cement facility to be built in the continental United States. The plant site sits on 300 acres in Drake, AZ. The facility includes complete raw materials receiving and storage, clinker production, rail loading and storage silos, coal fuel processing, and fugitive dust collection. The **Design/Build contract was valued at \$49.7 million.** As part of the project, IAC supplied over 1,500 metric tons of structural steel, 34 different specially designed IAC OEM baghouses, energy saving IAC OEM air-to-air heater exchanger, conveyors, rotary valves, fans, and process control dampers for emission control at the plant.



IAC was subsequently awarded a **\$12.7 million EPC contract** to supply a new Finished Cement Truck Load-out dispatch facility. The facility consisted of four (4) 2,000 Ton silos, 160 TPH Finished Cement Pneumatic Conveying Transporter, material handling conveyors, scales, automated controls and additional IAC OEM fugitive dust collection systems for each. IAC has had ongoing construction projects at site spanning a seven year continuous period of time.



Drake Cement, Drake, AZ Green **Field Cement Plant (Continued)**

Recently IAC received an EPC contract to design and construct a 220 TPH Cement Full Vent Separator in conjunction with a 280 TPH Finish Grinding Ball Mill and a 110,000 ACFM IAC Baghouse Filter handling 120 STPH of Finish Cement.

Project Value: \$18.7 million.



IAC was subsequently awarded a **\$4.2 million EPC contract** to supply and install four additional silos, clinker handling conveyors, waste product silo, and additional fugitive collection systems for each. IAC had construction trades on site for over a five year period.

Drake Cement is one of the U.S.' newest cement plants and was designed to comply with some of the most stringent particulate emissions. IAC provided the plant with guarantees to meet those limits.

IAC was selected for the APC portion of the supply based on our international reputation for handling and containing the most difficult dust and particulate emissions. **IAC provided the plant with guarantees** and has passed all tests to date to meet those limits.



Drake Cement has a railroad and truck discharge system to unload limestone from outside sources, as well as other raw materials and coal sourced from Colorado and neighboring Western states. The plant has a 32 day reserve of clinker storage which includes a covered clinker dome of 50,000 tons and an emergency stock silo of 13,800 tons.

IAC's M-Pulse, long bag, medium pulse pressure baghouse is designed for efficient operation and effective cleaning for this large process gas flow application of 167,000 cubic meters per hour. The M-Pulse baghouse is effective for both high dust loading and high temperature service.



Exide Technologies, Canon Hollow, MO

Industrial Accessories Company was selected as EPC contractor by Exide Technologies to engineer, build, deliver, and install a lead oxide negative air dust collection system for its battery recycling facility located on about 360 acres northwest of Forest City, MO. **IAC's contract was valued at over \$22 million** and consisted of two IAC OEM large baghouse filter collectors having over 1 million CFM of filtering capacity and utilizing latest SCADA technology and 5400 HP VFD motor drives. IAC's Adelphi Construction Co. managed the procurements and construction on the 2-year-long project.



The plant was required by government agencies to meet NIOSH, NESHAP, and OSHA regulations which require maintaining a 0.007" WC pressure vacuum across 100% of the plant's inside building surface area.

IAC provided Exide the expertise to maintain the entire containment building complex under this negative pressure to meet more stringent federal and state emissions regulations enacted to control release of the carcinogenic lead oxide dust and fumes.



An IAC Design/Build Contract, this Texas plant utilizes a patented process to prepare pozzolans for use as supplementary cementitious materials that replace Portland cement in amounts up to 60%. Fly ash is conveyed directly from the nearby power plant to the EMC production facility.

The 150,000 TPY plant commissioned in September 2004, was erected by IAC.

Project Value: \$13.4 Million



IAC can provide complete turnkey engineering, procurement, and construction including foundations and utility services.

Big Rivers Electric Corporation, Robards, KY: DSI/ACI Mercury Scrubber System

Industrial Accessories Company was awarded a Design/Build contract, from Babcock Power Inc., **valued at \$6.7 million** for the supply, erection and startup of four (4) dry sorbent injection (DSI), SO₃ containment, and activated carbon injection (ACI) mercury removal systems at Big Rivers Electric Corporation's (BREC) Robert D. Green Generating Station Units 1 and 2 burning bituminous coal in Robards, KY.

IAC provided equipment for each the ACI and DSI systems which included (4) silos, truck fill lines, scales, metering, and pneumatic injection systems to the lances at the preheaters.



The DSI and ACI systems were installed in order to reduce mercury emission to levels compliant with the new federal Mercury Air Toxics Standards (MATS).

The Big Rivers DSI / ACI installation has become a recognized state-of-the-art show place for U.S. utilities to visit and duplicate for their projects.



Maalt, LP, Dilley, TX – Frac Sand: Transload Facility

IAC, acting as General Contractor, and MHC, as Principal Engineer, provided a turnkey Frac Sand transload facility including dual railcar unloading, four (4) Bulk Storage Tanks, Truck Load-out, sand handling and IAC OEM fugitive dust collection at Maalt, LP's Dilley, TX., facility sitting on over 200 acres. **The EPC contract was valued at \$12.2 million.**

Maalt, LP headquartered in Fort Worth, TX specializes in transloading, storing, trucking and producing frac sand.

Maalt's Dilley, TX, transload facility can accommodate 100 car unit trains unloading into four 5,000 ton bolted storage silos. A unit train can be unloaded in 24 hours allowing a new train approximately every 36 to 48 hours. Over 300 truckloads per day are emptied from the silos and sent to wells sites in south central Texas.



Shale Support Services, Picayune, MS: Frac Sand Rail Load-Out and Screener Expansion

Industrial Accessories Company was **awarded a \$7.5 million EPC Turnkey contract** for the design, build, erection, and installation of equipment, rail loadout building, scale, and ventilation ductwork necessary to complete Shale Support Services, drying facility located in Picayune, MS. IAC was **subsequently awarded a \$1.7 million contract** to add additional conveying and screening capacity to the plant.



The drying facility equipment includes dryer feed storage, static fluid bed dryer sized for 150 tons per hour at 6% moisture content, product screening, product conveyor systems, product storage silos and rail loadout facility. IAC provided the nuisance dust control for all silos and transfer points for the facility.

IAC DESIGN / BUILD M-PULSE BAGHOUSE 1,200,000 ACFM



Project Value: \$32.9 Million

IAC DESIGN/BUILD - STACK FOR PRESSURE RAFF – 2,700,000 ACFM



Project Value: \$6.7 Million

IAC M - PULSE BAGHOUSE & DSI



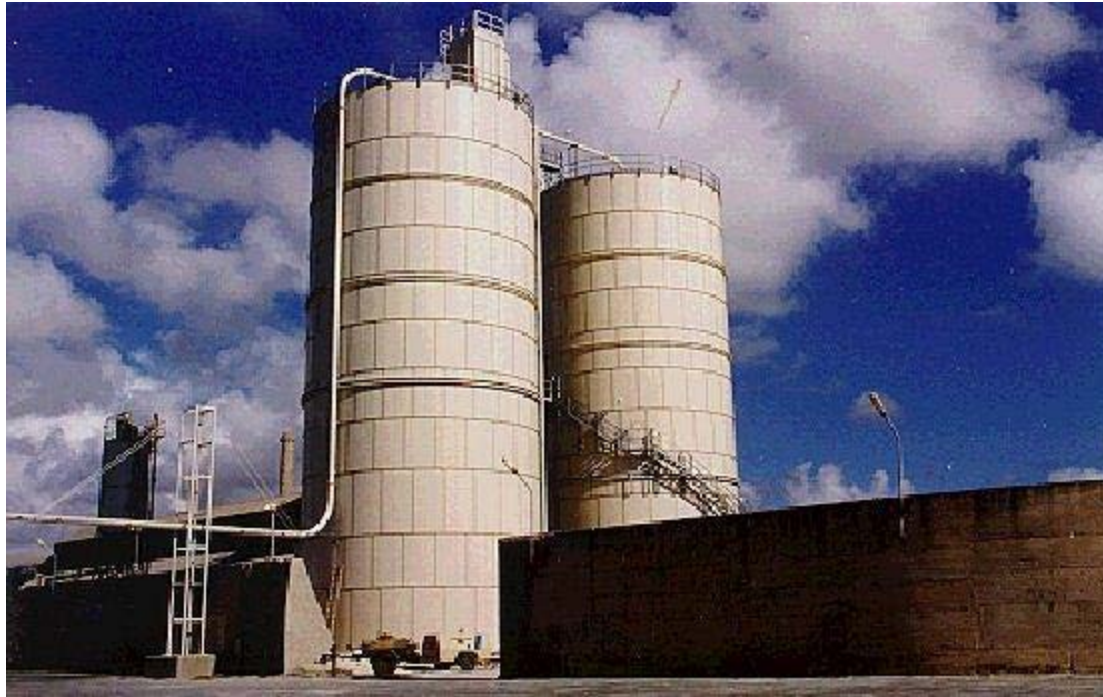
M – Pulse Module



DSI with Trona

Project Value: \$6.5 Million

IAC CEMENT TERMINALS EPC CONTRACT FUIKBAY, CURACAO NETHERLANDS ANTILLES



Two(2) 38'-7 3/8" Diameter Bolted Steel Silo's
(Total 5,500 MT)

Project Value: \$18.1 Million