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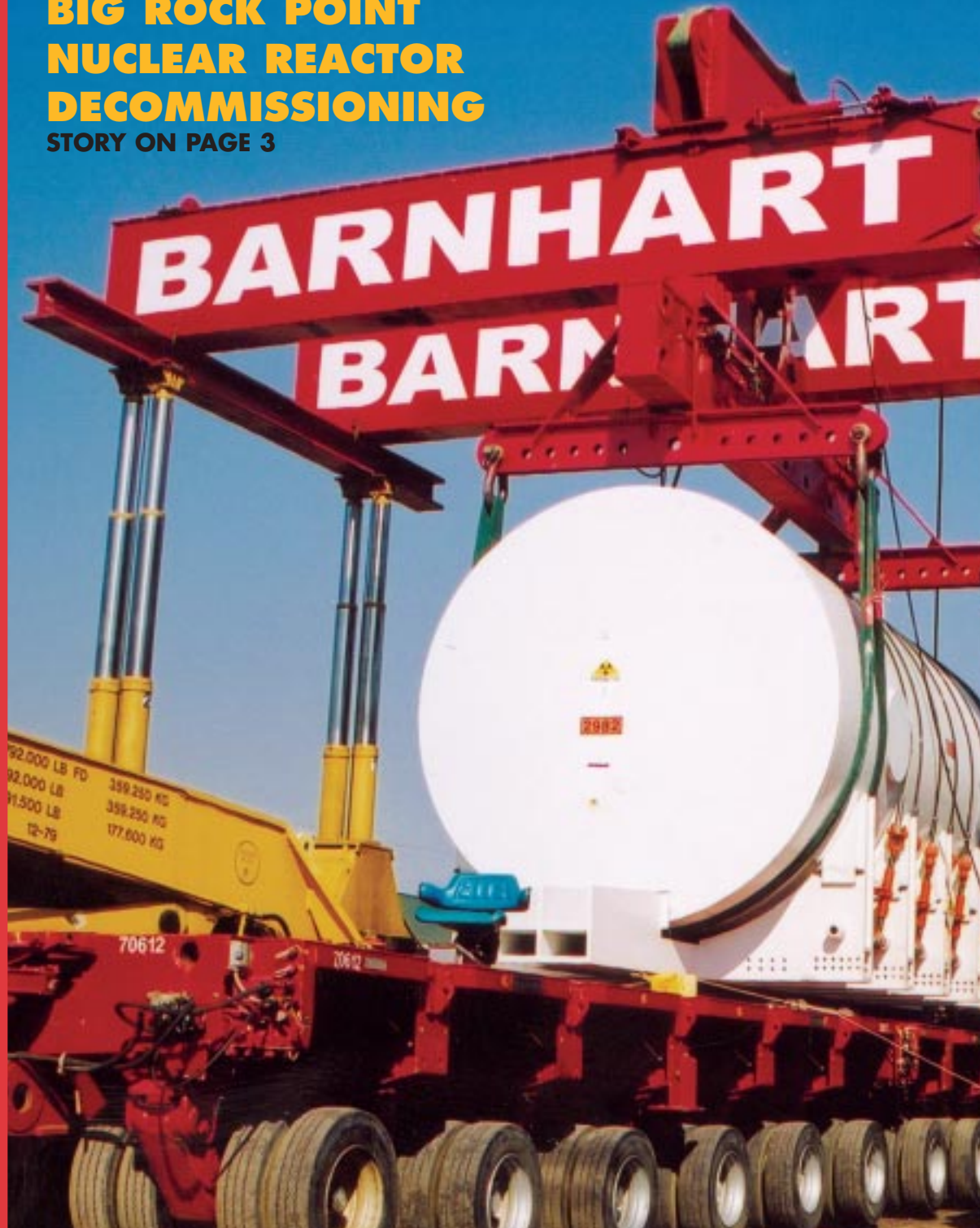
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THE LIFTING LETTER

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A PUBLICATION OF BARNHART CRANE & RIGGING COMPANY

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Modular Lift Tower Sets Reactor in Operating Refinery

Last fall, Barnhart performed roll off operations and the setting of a 215 ton reactor for a low sulfur fuels project at a local refinery. The Modular Lift Tower (MLT) was the perfect solution for setting the 20' diameter reactor. Due to space restrictions and a congested job site, a heavy lift crane would have been considerably more costly and hindered the project's schedule. The MLT was "squeezed in" between a row of live transformers and new foundations for an exchanger bank. The benefits of the MLT as compared to a heavy lift crane included: lower and more even ground loading, higher lift capacities, higher safety margins, smaller footprint for assembly, less job site congestion, reduced assembly and disassembly time as well as significant cost savings.



Following roll off operations, the reactor was staged on site to allow insulating to commence. After less than a week to assemble the Modular Lift Tower, Barnhart utilized hydraulic platform trailer to transport the reactor to the lift tower. Due to the obstruction of foundation piers, Barnhart employed their hydraulic slide system to move the reactor under the lift tower hook in less than one day. On lift day, a LTM1400, 500 ton crane, performed tailing operations as the MLT's 500 Ton Hoist System stood the reactor and traveled it in two directions and set the reactor on its anchor bolts in less than 2 hours for a pleased customer.



800-TON REACTOR LOAD OUT

Several times over the years, Barnhart has performed feasibility studies on the moving of an 800 ton reactor from its storage location near Barnhart's Port of Memphis Facility to locations around the world. Due to our familiarity with the vessel and its proximity to Icabod, Barnhart's 1250 ton stiff leg derrick crane on the Mississippi River, it made logistical and economic sense for Barnhart to handle the move.

Eight legs of 800-ton gantry lifted the 800-ton vessel on to 18 line axles of Goldhofer self-propelled trailer in a doublewide configuration. The reactor was transported several hundred yards to the hook of Icabod and loaded on to a deck barge. After Barnhart crews secured the vessel to the barge, it was safely on its way to Texas. The entire project was completed in less than 40 hours.



BIG ROCK POINT NUCLEAR REACTOR DECOMMISSIONING

Last fall, Barnhart traveled to Michigan to remove, transport over the road and load on a rail car a nuclear reactor and cask weighing 568,000 lbs.

ON SITE REMOVAL

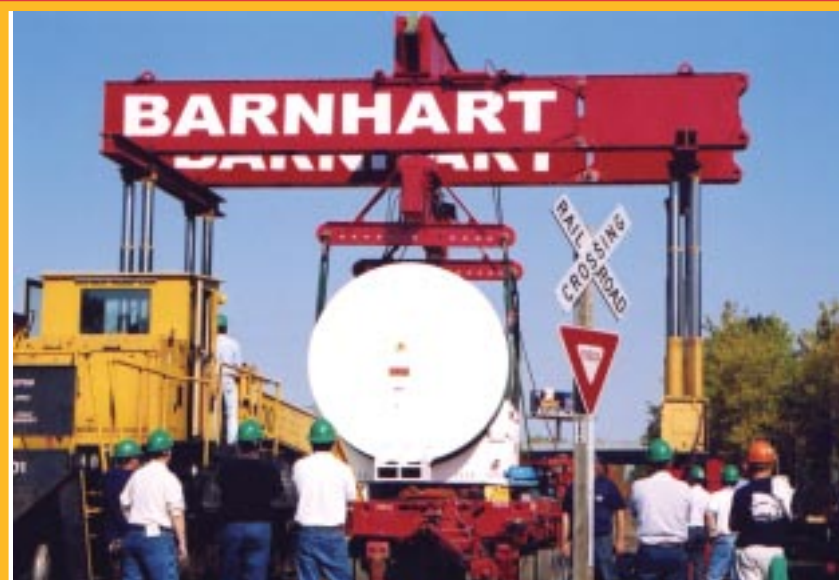
- Transported empty reactor cask (230,000 lbs.) on site to the CCA (Containment Construction Access) with platform trailer
- Loaded the cask into a Barnhart engineered A-Frame & Sliding Saddle System and moved on Slide Track into the CCA
- Upended the empty cask from the vertical to the horizontal with Barnhart's 300 kip capacity Basketing Device with the plant's gantry crane.
- Down-ended the loaded reactor cask (568,000 lbs.) using the Barnhart Slide System, A-Frame and the plant crane
- Moved the cask out of the CCA with the same system
- Slid the cask out of the CCA outside to the 800-ton gantries
- Rotated cask utilizing the 500-ton swivel
- Loaded the cask on to the Goldhofer platform trailer with the Reactor Vessel Transport System (RVTS) underneath the cask

TRANSPORTATION

- Performed 54 mile haul through three counties with a gross haul weight of 772,000 lbs. with Goldhofer trailer, two prime movers and a third prime mover in reserve for the steep grades
- Utilized Barnhart's Bridge Jumping System at three separate bridge locations on the haul route
- Transported reactor in 10 hours over a two day period

RAIL TRANSFER

- Used similar lifting system at the rail head as was used at the CCA
- Backed the reactor under the hook of the Rail Transfer System
- Lifted and transferred the loaded reactor cask to an 18 axle rail car





BARNHART CALLED ON TO MEET AGGRESSIVE TRANSPORTATION SCHEDULE

Earlier this year, Barnhart was awarded the contract to set a 90-ton vessel measuring 13'6" in diameter and 115' long at an Alabama refinery. The vessel was to be railed to site from Shreveport, Louisiana, but the rail clearance failed. Competitors said it would take at least a month to get all the permits to transport over the road. The customer's schedule did not have a month.

Barnhart was called in to meet the tight schedule. After a detailed route survey and coordination with the Department of Transportation in five states, permits were finally obtained. With police escorts and multiple line crews assisting, Barnhart's Trail King Dual Lane Transporter equipped with 3 dollies and nitrogen accumulators safely completed the 750 mile haul in four days and ahead of schedule.

MODULAR LIFT TOWER "FULLY INTEGRATES" IN IOWA

In Iowa, Barnhart showcased the multi-faceted Modular Lift Tower (MLT). Barnhart's MLT was required not only to set the massive GE steam components, but to also "fully integrate" with a largely complete steam facility building. The problem was clear. How to receive, lift and set 250-ton units with strict limits on clearances in every direction while allowing an existing overhead crane to remain operational?

The MLT was configured by strategically laying out the ground preparations and pedestal tracks to pass through the erected building. In essence, the MLT was built inside and outside the structure. Using 60' gantry tracks as the primary spanning members, the MLT was able to provide a very tight loading bay between the structure and the concrete pedestal. The units were brought to the MLT through a narrow alley with platform trailer. Barnhart's containerized 500-ton hoist with its swivel feature lifted the turbine and generator off the trailer to a height of nearly 45 feet above grade. Finally, the units were propelled into position and lowered with 450-ton gantries.



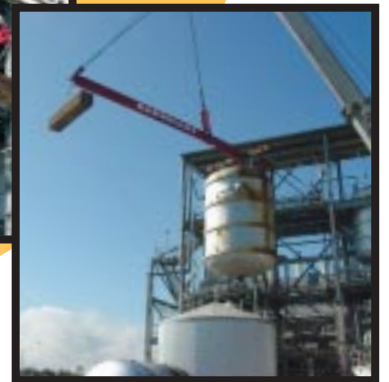
TC3000 Sets Wind Turbines in Ohio and Texas

Barnhart had their TC3000, 800-ton crane, on the road from Texas to Ohio last year setting wind turbines ranging from 1.8MW to 3MW on towers measuring from 67 to 78 meters. Barnhart received the components at the port of entry and handled transportation to the site and final erection. The scope included rail oversight, trucking to the foundation, erection, mechanical completion and electrical installation.



CANTILEVER BEAM SOLVES TIGHT HEADROOM PROBLEM

A chemical plant outside Mobile, Alabama called on Barnhart to provide a rigging solution for a reactor replacement. The challenge was minimal overhead clearance between the reactor and critical piping to the plant. Instead of asking the plant to go off line, Barnhart employed their innovative cantilever system to change out the reactors from the side while leaving the piping in place. The project was completed safely and efficiently for a satisfied customer.



BARNHART AWARDS EXCELLENCE



Due to the large volume of work performed by Barnhart at the end of 2003, their annual awards dinner was re-scheduled for January of 2004. The following employees were awarded for excellence in skill and safety in their work: Mechanic of the Year – Dennis Wall, Fabricator of the Year - Michael Yarbrough, Rookie Crane Operator of the Year – Bobby Palmer, Crane Operator of the Year – Daric Pfeiffer and Field Supervisor of the Year – Robert Barnhart. Bret Gillespie (not present) was Barnhart's Driver of the Year.

TELESCOPIC BOOM CRANES

	MODEL NO.	BOOM
500 Ton Liebherr All-Terrain (2)	LTM 1400	440'
440 Ton Demag Truck Crane (2)	HC 1010	348'
300 Ton Demag All-Terrain	AC 665	389'
225 Ton Liebherr All-Terrain	LTM 1160	364'
210 Ton Krupp All-Terrain (2)	GMK 5210	322'
180 Ton Demag All-Terrain (3)	AC 435	262'
165 Ton Demag All-Terrain (3)	AC 335	302'
150 Ton Demag All-Terrain (2)	AC 395	253'
150 Ton Krupp All-Terrain (2)	KMK 5100	227'
120 Ton Demag All-Terrain	AC 265	204'
110 Ton Liebherr (3)	LTM 1090	243'
110 Ton Krupp All-Terrain	KMK 5110	214'
100 Ton Demag All-Terrain (4)	AC 205	219'
80 Ton Krupp All-Terrain (4)	KMK 4070	175'
80 Ton Grove RT (2)	RT 990	206'
70 - 60 Ton Truck Crane (5)		186'
50 - 30 Ton Grove Truck Crane (14)		142'
22 Ton Grove All-Terrain/Truck (4)		113'
27 - 12 Ton Boom Truck (6)		149'
17.5 - 8 Ton Carry Deck (7)		37'

CRAWLER/RINGER CRANES

	MODEL NO.	BOOM
1800 Ton Demag with Ringlift	CC 4000	595'
880 Ton Demag Crawler with Superlift	CC 4000	550'
600 Ton Demag Crawler with Superlift	CC 2600	295'
500 Ton Demag Crawler	CC 2600	295'
440 Ton Demag Crawler with Superlift	CC 2000	435'
386 Ton Demag Crawler with Superlift	CC 1200	433'
360 Ton Link-Belt Heavy Lift	LS 718 HL	480'
330 Ton Demag Crawler	CC 2000	433'
275 Ton Demag Crawler	CC 1200	433'
250 Ton Link-Belt Crawler Tower Crane (2)	LS 718	550'
250 Ton Link-Belt Crawler Crane (2)	LS 718	450'

LATTICE BOOM TRUCK CRANES

	MODEL NO.	BOOM
800 Ton Demag Truck Crane with Superlift	TC 3000SL	496'
550 Ton Demag Truck Crane	TC 3000	496'
440 Ton Demag Truck Crane with Superlift	TC 1200 SL	472'
308 Ton Demag Truck Crane	TC 1200	472'
200 Ton Link-Belt Truck Crane	HC 258	370'
125 Ton Link-Belt Truck Crane (2)	HC 238	300'

HEAVY LIFTING, MOVING & SLIDING

500 Ton Hydraulic Gantries (20)	Lift Towers to 1200 Tons
1000 Ton Sliding Systems (8)	2400 Ton Jacking System
Forklifts to 120,000 lbs. with hydraulic booms	Air Casters to 500 Tons
1800 Ton Strand Lift	

MARINE SERVICES

Memphis, TN - Heavy Lift Terminal with 1250 Ton Derrick Crane, Rail Service, Heavy Storage
 Mobile, AL - Heavy Cargo discharge and storage, RO-RO, Barge/Rail Loading Heavy Lift Services
 Decatur, AL - Barge Dock, Cranes to 500 Tons, RO-RO
 Pascagoula, MS - Heavy Cargo discharge and storage, Barge/Rail Loading, Heavy Lift Services

TRANSPORTATION SERVICES

Over 2000 Tons of Hydraulic Platform Trailer Capacity including SPMT
 Barge and Rail Loading and Securement
 Dolly Transporters to 1000 Tons
 48 State Heavy Haul, Stretch Trailers, Tank Trailer to 16' diameter
 Temporary Bridges to 152'
 Jumper Ramps 30'-152'

INTERNATIONAL SERVICES

The following can be shipped in standard containers:
 Lift Towers, Dolly Transporters, Gantries, Goldhofer Trailers, Sliding Systems,
 Barge Ramps, Temporary Bridges, Strand-Lift Systems

STORAGE CAPABILITIES

500,000 Square Feet of Indoor Warehousing
 Over 100 Acres of Outdoor Storage



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