



MODERN CUSTOM FABRICATION, INC.

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Subsidiary Survey No. 16

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A. ADMINISTRATIVE PERSONNEL:

Zach Ahrens	Subsidiary V.P. and Manager
Jeff Kremer	Special Fabrications Manager

B. PRINCIPAL PRODUCTS AND CONSTRUCTION STANDARDS

- Since 1932 Modern Welding Company has served the petroleum industry with fabricated steel products for upstream producers, midstream refiners and the downstream marketers and jobbers.
- Modern manufacturers aboveground steel storage tanks, ASME pressure vessels and custom carbon and stainless steel fabricated products serving the petroleum, chemical, agricultural, and other US industries across the nation.
- Atmospheric storage tank construction standards include:
 - Steel Aboveground Tanks for Flammable and Combustible Liquids; Underwriter’s Laboratories UL-142.
 - Oil water separators are built to Underwriters Laboratories construction standard, UL-2215.
 - Fire rated aboveground storage tanks are built to Southwest Research Institute fire testing criteria.
- Other recognized tank construction standards include in Modern’s product line is the American Petroleum Institute’s, API-620 and API-650. Tanks can also be built to the American Water Works, AWWA, M-42, NFPA-22 and D100 standards.
- Pressure vessels are built in accordance with the ASME Section VIII, Division 1 code with “U” stamped certification. Modern also has “R” stamp certification to perform repairs and alterations.
- Modern manufacturers Liquefied Petroleum Gas vessels for propane, butane, anhydrous ammonia industries including dispensing equipment for associated service applications per CGA G.21 and NFPA-58.

Product names include:

- SuperVault™ 4 hour fire rated, Multi-Hazard certified aboveground storage tanks.
- Klearwater™ is Modern’s underground and aboveground gravity displacement oil water separator line.
- Modern’s AST-10, AST-20 and AST-40 are our complete aboveground fuel dispensing systems designed to meet a variety of fuel handling requirements.

Storage tanks and vessels can be prepared with special linings or coatings as specified. These special coatings can be for jet fuel or potable water. Other special linings can be rubber or baked phenolic linings for special chemical handling applications.

Other steel fabricated products include: Large diameter welded pipe, duct work, bins, hoppers, hydro-pneumatic tanks, water filtration and potable water tanks.

C. AVERAGE PRODUCTION PER MONTH: 2000 tons

D. APPROXIMATE PRODUCTION AREA:

1. Production Areas	85,000 sq. ft.				
Production Area	Crane Cap.	Hook Height	Cranes / Bay	Max. Lifting	
900’ x 70’	50 tons	40’	2	100 tons	
270’ x 70’	20 tons	30’	2	20 tons	
2. Outside building	300,000 sq. ft.				

E. MAXIMUM LIFTING AND SHIPPING CAPACITY- 100 tons (Outside sources available for heavier lift capacities.)

F APPROXIMATE RAIL OR TRUCK CLEARANCE OUT OF CITY:

	<u>Rail</u>	<u>Truck</u>
1. Height	14 ft.	14 ft.
2. Width	12 ft.	14 ft.
3. Length	150 ft.	110 ft.

G. PLATE ROLL CAPACITY: (FOR CARBON STEEL)

1. Width 10 ft.
2. Thickness 2.125 in.

Note: Maximum fabrication thickness is 2 in.

H. SHIPPING FACILITIES:

1. Railroad Southern Pacific
2. Water
3. Truck

Loading and unloading facilities at Oakland / San Francisco/ Long Beach.

Company owned fleet and numerous common carriers

I. ORGANIZATIONAL BREAKDOWN: (AVERAGES)

1. Engineering personnel 6
2. Shop personnel 35
3. Qualified code welders 16

J. TYPES OF MATERIAL FABRICATED:

1. Group P1 – P5 Carbon Steel and low alloy
2. Group P8 – Stainless Steel (304 & 316 with L grades)
3. Group P10H – Duplex and Super Duplex Stainless Steels

K. AUTHORIZED INSPECTION AGENCY:

Hartford Steam Boiler Inspection and Insurance Company

L. NON-DESTRUCTIVE TESTING FACILITIES:

1. X-ray - 300 KVP at 5 MA, with darkroom facilities
2. Magnetic particle - wet and dry
3. Liquid penetrant

M. STRESS RELIEVING FACILITIES:

Available outside

N. BLASTING CLEANING AND COATING FACILITIES: YES

- 22 Ft x 22 Ft x 150 Ft Blast Cleaning Booth
- 22 Ft x 22 Ft x 150 Ft Paint Booth

O. GENERAL FACILITIES:

1. Shearing:
 - a. Straight - 3/4" x 10 ft.
 - b. Rotary - 3/8" x 12 ft. dia.
2. Bending and Forming:
 - a. 550-ton press brake
 - b. 3" x 3" x 3/8" Angle Roll
3. Welding Equipment - Manual, submerged arc, GMAW, GMAW-S, FCAW-G, FCAW-S, TIG
4. COMPUTERIZED BURNING TABLE (MESSER):
Carbon Steel Thickness 2" Piercing Capability
Stainless Steel Thickness 1.5" Piercing Capability
Oxyfuel burning 4" thick cutting Capability