Modern Welding Company, Inc.

Manufacturing Subsidiaries Nationwide

LONG FORM: Section 13205

PRODUCT: Single Wall, Horizontal, Aboveground, Closed Top Diked Fuel Storage Tank

Guide Specification

PART I General

1.0 Related Work Specifications:

1.1. Cast-in-Place Concrete: Section 03300

1.2. Anchor Bolts: Section 05501

1.3. Liquid Level Gauges: Section 15174

1.4. Piping: Section 150641.5. Painting: Section 09900

2.0 Quality Assurance

2.1 Acceptable Manufacturer:

- A. Modern Welding Company of Owensboro, Inc.
- B. Modern Welding Company of Ohio, Inc.
- C. Modern Welding Company of Iowa, Inc.
- D. Modern Welding Company of Texas, Inc. (Houston)
- E. Modern Welding Company of Texas, Inc. (Rhome)
- F. Modern Welding Company of California, Inc.
- G. Modern Welding Company of Georgia, Inc.
- H. Modern Welding Company of Florida, Inc.
- I. Modern Custom Fabrication, Inc.

2.2 Governing Standards:

- A. U.L. 142, Underwriters Laboratories, Inc., "Steel Aboveground Tanks for Flammable and Combustible Liquids".
- B. NFPA 30, National Fire Protection Association, "Flammable and Combustible Liquids Code".
- C. NFPA 30A, National Fire Protection Association, "Code for Motor Fuel Dispensing Facilities and Repair Garages".
- D. Uniform Fire Code, International Fire Code Institute
- E. PEI/RP-200, Petroleum Equipment Institute, "Recommended Practices for Installation of Aboveground Storage Systems for Motor-Vehicle Fueling"

3.0 Submittals

3.1 Shop	Drawings:
Α. (Contractor shall submit copies of shop drawings for each tank. Location of fittings and
	accessories with specific dimensions shall be shown on all drawings.
3.2 Drav	ving Approval:
Α. (Contractor shall receive drawing approval prior to product fabrication.
3.3 Cata	log Data:
Α. (Contractor shall submit current copies of manufacturer's literature.
	ification:
	Each tank shall bear the U.L. listing mark for, "Aboveground Tank for Flammable Liquids".
	Illation Instructions:
Α. (Contractor shall submit copies of manufacturer's current installation instructions.
PART II Pro	ducts
4.0 Single W	all, Horizontal, Aboveground, Storage Tank
4.1 Mate	erials:
Α. (Only new material shall be used in the manufacturing process, and the manufacturer shall
	ensure that the material used meets all appropriate specifications and quality assurance requirements.
В. 1	Minimal material thickness of the tank(s) shall be per UL-142 requirements.
4.2 Dime	
A. D	imensional Requirements:
	1. Nominal capacity of the tank(s) shall be gallons.
	2. Nominal inner tank diameter of the tank(s) shall be inches.
	3. Overall length of inner tank(s) shall be feet, inches.
	4. Minimal material thickness of the primary tank shall be
	5. Minimum diked volume shall be equal to 110% capacity of the primary tank.
4.3 Load	ling Conditions:
A. Ta	anks shall meet the following design criteria.
B. In	ternal Load:
	1. Tanks shall withstand an air pressure test of 3 to 5 psi.
C. Ta	ank(s) shall be designed to support accessory equipment such as ladders, pumps, floating
	suction, etc. when installed according to manufacturer's instructions and limitations.
D. Ta	ank(s) shall be provided with suitably designed and located lifting lugs which have a 2:1
	safety factor.
4.4 Prod	uct Storage Requirements:
A. Ta	ank(s) shall be capable of storing liquids with a maximum specific gravity up to

- B. Primary tank and containment dike shall be designed for operation at atmospheric pressure only. Tanks shall have openings of sufficient size to meet normal and emergency venting requirements as stated in U.L. 142, UFC, and NFPA.
- C. Tank(s) shall be capable of storing gasoline, gasohol, jet fuel, avgas, diesel fuel, methanol, or fuel oil at ambient temperatures.

5.0 Accessories

5.1 Certification Pla	ate:
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A. Underwriters Laboratories label "Aboveground Tank for Flammable Liquids" shall be affixed to each tank.

5.2 Fittings (Threaded/NPT):

A. All threaded fittings shall be of a material of construction consistent with the requirements of

Qty.	Size	Type	Use
.,		,,	
			
Fittings (Flanged Nozzl	es):		
		construction consistent v	with the requirements
_		zzles shall be protected u	
B. Nozzle Schedule:		·	-
Qty.	Size	Type	Use

5.4 Manways:

- A. Manways shall conform to Underwriters Laboratories 142 standard with regard to construction, gaskets and bolting.
- 5.5 Ladders/Walkways:
 - A. Exterior ladder, if necessary, shall be of steel construction and designed using accepted engineering practices.
- 5.5 Steel Tank Supports:
 - A. Design of the steel supports shall be per approved UL listing and be able to support the weight of the tank filled to capacity.
- 5.6 Fitting, Manway, and Support locations shall be referenced on manufacture drawings.

PART III Execution

6.0 Installation

- 6.1 Testing:
 - A. Tank(s) shall successfully complete an air pressure test of 3-5 psi prior to installation.
- 6.2 Tank shall be installed in strict accordance with the most recent installation instructions provided by the tank manufacturer, UFC, NFPA, local ordinance, recognized engineering procedure, and other applicable codes.

FORM: Closed Top Dike

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SUBSIDIARIES:

Modern Welding Company of Owensboro, Inc.

Owensboro, KY (270) 683-5323

Modern Welding Company of Ohio, Inc.

Newark, OH (740) 344-9425

Modern Welding Company of Florida, Inc.

Orlando, FL (407) 843-1270

Modern Welding Company of Texas, Inc.

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Modern Welding Company of Texas, Inc.

Rhome, TX (817) 636-2215

Modern Welding Company of Iowa, Inc.

Burlington, IA (319) 754-6577

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Modern Custom Fabrication, Inc.

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