

**BID PROPOSAL**

**BID #5887**

**CARBON DIOXIDE FOR WATER TREATMENT FACILITY**

**BID OPENING: JANUARY 5, 2005, 2:30 p.m. (our clock)**

WE HEREBY ENTER OUR BID FOR THE CITY OF FORT COLLINS REQUIREMENTS FOR CARBON DIOXIDE PER THE BID INVITATION AND ANY REFERENCED SPECIFICATIONS:

The City of Fort Collins Water Treatment Facility uses Liquid Carbon Dioxide in the Corrosion Control program. Carbon Dioxide and Lime are combined at the pre-treatment and the clearwell stage to add alkalinity and hardness to the water and thereby provide corrosion control. Carbon Dioxide must meet the most current American Water Works Association (AWWA) Standard for liquid carbon dioxide. Other specifications regarding product quality, safety, delivery, and purchasing are as outlined in the Fort Collins Water Treatment Facility Standard Operating Procedure for Purchasing Liquid Carbon Dioxide enclosed with this bid packet.

Prices quoted are to be as delivered to the Fort Collins Water Treatment Facility. A Blanket Purchase Order will be established at the beginning of each new year; delivery releases will be made against that Purchase Order throughout the year. Price is to be quoted in pounds. Estimated annual volume for bidding purposes is 880,000 pounds; that is the average volume over the last five years. **NO GUARANTEE OF THIS VOLUME IS MADE OR IMPLIED.**

Pricing is to be held firm through December 31, 2005. If agreeable to both parties this agreement may be extended in one-year intervals for up to four additional years (through December 31, 2009).

***The City of Fort Collins allows other Public Agencies the opportunity to purchase off the Award for this Bid, at the option of the Awarded Vendor.***

**Liquid Carbon Dioxide, per most current AWWA Standard for Liquid Carbon Dioxide, delivered price to Fort Collins Water Treatment Facility:**

\* \$0.0449 /lb Manufacturer Name, Product Number and Product Name:

# AIR LIQUIDE INDUSTRIAL U.S. LP, N/A, CARBON DIOXIDE

**For questions concerning this bid, contact Ed Bonnette, C.P.M., CPPB, Buyer @ 970-416-2247.**

\*1) Price Quoted equates to \$89.75/Ton Delivered

2) Each invoice will contain the following charges per delivery as well per Exhibit 1:

HAZMAT Charge — \$35

Standard Delivery Charge — \$60

3) Mutually agreeable term and conditions must be negotiated by both parties utilizing the same method as the award process.





**AIR LIQUIDE**

**PURITY SPECIFICATIONS - BULK LIQUID CARBON DIOXIDE**

**Sales Purity Specification for  
Beverage Grade Carbon Dioxide**

**ICS-PRM-0100-S; Effective Date 04/19/04**

Chemical Symbol	CO <sub>2</sub>
Physical State in Container	Liquid
Minimum Purity (vol/vol)	99.9%
Maximum Dew Point	-67 °F
<b>Maximum Impurities</b>	(units in ppm {vol/vol} unless otherwise stated)
Water	20 ppm
Total Hydrocarbons (as Methane)	20 ppm
Oxygen	30 ppm
Carbon Monoxide	10 ppm
Hydrogen Sulfide	0.1 ppm (Note 1)
Carbonyl Sulfide	0.1 ppm (Note 1)
Sulfur Dioxide	1 ppm
Total Sulfur	0.1 ppm (Note 1)
Nitric Oxide	2.5 ppm
Nitrogen Dioxide	2.5 ppm
Ammonia	2.5 ppm
Acetaldehyde	0.2 ppm
Benzene	0.02 ppm
Nonvolatile Residues	10 ppm (wt/wt)
Nonvolatile Organic Residues	5 ppm (wt/wt)
Odor, Taste, Appearance	Free of foreign odor, taste, color (Note 2)
Meets or Exceeds CGA-G6.2-2000	Quality Verification Level G, H, I

Air Liquide America L.P. ("Air Liquide") disclaims all liability in connection with the use of any Product. The Customer's sole remedy if the Product does not conform to these specifications is to return the Product for refund or replacement. WITHOUT LIMITING THE FOREGOING, AIR LIQUIDE SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE.

Note 1: Total sulfur compounds, not including sulfur dioxide, shall not exceed 0.1 ppm as sulfur dioxide.

Note 2: In water solution.

Note 3: All samples obtained from the liquid phase.