Exhibit No.:

500

Witness: David Meade

Type of Exhibit: Rebuttal Testimony

Issue: Rate Increase,

Acquisition Premium, Savings

Sponsoring Party: Praxair, Inc.

Case No.:

EM-2000-369

Missouri Public Service Commission

MISSOURI PUBLIC SERVICE COMMISSION

UTILITY DIVISION

THE EMPIRE DISTRICT ELECTRIC COMPANY AND UTILICORP UNITED, INC.

CASE NO. EM-2000-369

PREPARED REBUTTAL TESTIMONY OF DAVID MEADE

June 21, 2000

Exhibit No. 5 00

Date 9-10 00 Case No. 8n-2000-369

Reporter 45

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the matter of the Joint Applica-)	
tion of UtiliCorp United Inc. and)	
The Empire District Electric Compa-)	ER-2000-369
ny for authority to merge the Em-)	
pire District Electric Company with)	
and into UtiliCorp United Inc. and,)	
in connection therewith, certain)	
other related transactions.)	

AFFIDAVIT OF DAVID MEADE

STATE	OF	NEW	YORK)	
)	ss
COUNTY	Z OI	FER	ΙΈ)	

David Meade, of lawful age, on his oath states: That he has reviewed the attached written testimony in question and answer form, all to be presented in the above case, that the answers in the attached written testimony were given by him; that he has knowledge of the matters set forth in such answers; that such matters are true to the best of his knowledge, information and belief.

David Meade

Subscribed and sworn to before me this 19th day of June, 2000.

Notary Public

[SEAL]

My Commission expires: 5/6/01

NOREEN E. BALLA
NOTARY PUBLIC, State of New York
Qualified in Erie County
My Commission Expires May 6, 20___/

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PREPARED REBUTTAL TESTIMONY OF DAVID MEADE ____

INTRODUCTION AND PERSONAL QUALIFICATIONS

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- Q. Please state your name and business address.
- A. David Meade, Praxair, Inc., 175 East Park Drive, Tonawanda,

 New York, 14151

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- Q. What is your professional employment?
- 8 A. I am energy manager of Praxair, Inc.

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- 10 | Q. What is your educational background?
- 11 A. I graduated from Cornell University, Ithaca, New York, in 1981

 12 and received a Bachelor of Science degree in Operations

 13 Research and Industrial Engineering. In 1986 I received a

 14 Master of Business Administration degree with a major in

Finance from New York University, New York, New York.

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- Q. What is your prior experience?
- A. Upon graduation from college in 1981, I joined Praxair, then known as the Linde Division of Union Carbide Corporation, as an operations engineer in the National Logistics Center. My responsibilities included conducting performance audits and developing projects and systems to reduce distribution costs

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and improve customer service. In 1986, I joined Linde's energy management department as a senior analyst, and managed an information systems and analysis group responsible for competitive assessment and modelling, verifying, analyzing, planning and forecasting energy use and costs. became an energy manager and took on additional responsibilities to currently include management of electricity use and procurement in Missouri, Illinois, Indiana, Ohio, Michigan, Iowa, West Virginia, Kentucky, and Minnesota. In that capacity, I am actively involved in seeking appropriate electricity pricing and the development of innovative power supply agree-I am also responsible for optimizing plant tactical ments. and operating strategies to minimize electricity costs. have spoken at various conferences and seminars on topics of energy management and procurement, most recently in 2000 at events organized by Electricity Consumers Resource Council (ELCON).

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Q. Who is Praxair?

A. Praxair is the largest producer of industrial gases in North and South America, third largest on a worldwide basis.

Formerly the industrial gases division of Union Carbide, known in North America as Linde, Praxair was spun off as a separate, independent company in June, 1992. In 1996, the company

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completed the acquisition of Liquid Carbonic making it the world's largest producer of carbon dioxide. Praxair began operations in 1907 with its first plant in Buffalo, New York and now has a worldwide network of plants.

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SUMMARY OF PRAXAIR OPERATIONS

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Q. What is the nature of Praxair's products?

Praxair's major products include the products of air separation: oxygen, nitrogen and argon. These products are manufactured by separating air into its component parts. gases are used in production and to improve efficiency, quality, and environmental compliance in a variety of industries, including steel, chemicals, metals, electronics, paper, food, glass and medical care. Customers generally receive Praxair's products in one of three ways: (1) by truck delivery from regional bulk liquid production plants into tanks at the customer site, (2) by pipeline from large bulk production plants, or (3) from smaller "on-site" non-cryogenic production facilities dedicated to an individual customer (vacuum pressure swing adsorption plants for oxygen supply, membrane plants for nitrogen supply). Praxair also produces and distributes carbon dioxide, hydrogen, helium and specialty gases, and operates a surface technologies business.

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- Q. Please describe Praxair's operations in the Empire District Electric Company ("Empire") service area.
- Praxair has operated a bulk production plant and distribution Α. center in Neosho, Missouri since 1960. The plant produces liquid oxygen and nitrogen for the regional industrial gas merchant market, and has a liquid production capacity of 325 tons per day. Praxair's Neosho plant provides nitrogen and oxygen to the food processing, metal fabrication, steel, health care and petroleum industries in Missouri, Oklahoma, Arkansas and Kansas. A \$6 million expansion and modernization completed in 1992 doubled plant capacity. The expansion was done with long-term expectations of competitively priced power. This facility has 16 employees and an annual payroll of \$900,000. In the state of Missouri, Praxair has a total of 383 employees and a payroll of over \$12 million. Praxair recently paid over \$160,000 in property taxes, collected and paid to Missouri over \$200,000 in sales and use taxes from its Missouri customers and paid over \$300,000 in sales and use taxes on its own purchases.

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- Q. What is the general nature of competition which Praxair faces in the industrial gas industry?
- A. The industrial gases business is an extremely competitive business, with several large companies operating with pro-

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duction networks throughout North America and the world. There are also many regional companies and distributors adding to the competition in specific markets. The distribution radius of a plant is generally within a range of 250 miles. Industrial gases prices are held to competitive levels due to increased overall supply and the demands of customers, many of whom face intense and relentless competition in national and global markets. The development of alternative non-cryogenic industrial gas production technologies is providing more supply options and adding to competitive pressures.

What competitive challenges does Praxair face at its Neosho plant in particular, and how are these challenges evolving?

A. The competition is intense and continues to become more so.

There are several other industrial gas companies and facilities capable of competitively serving the same customers as our Neosho plant. In many cases they do. These include facilities located in Missouri, Arkansas, Oklahoma, Illinois, and Tennessee. Due to the competitive situation, our Neosho plant is no longer fully loaded. Of continuing concern is the potential of higher power prices at Neosho while prices at our other facilities and those of our competitors are stable or in decline. It is also noteworthy that Praxair has electrical

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pricing at or below the levels at our Neosho plant at various other locations

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- Q. Is there potential for expansion or contraction of Praxair's business at Neosho?
- There is potential for either expansion or contraction at Α. Neosho, based upon the relative competitiveness of our costs here vis-a-vis those of our other current and future production facilities and those of our competitors. Operations have expanded or contracted based on markets and our ability to win continuing competitive battles for business. In past years, we have even recaptured some load and expanded through upgrades and additions at our existing plant site. More recently, we have seen substantial business migrate to new competitor plants. As a result, the utilization of our Neosho plant has dramatically decreased. Growth and retention opportunities are dependent upon the extent that current and potential customers choose to use industrial gases, the extent they choose to use our products instead of those of our competitors, and the extent that we source our requirements from our Neosho plant.

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Q. What is the significance of electricity to Praxair and how is it used in the Neosho plant?

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A. The industrial gas business is extremely electricity-intensive, more so than any other industry. The production of liquid oxygen and nitrogen at Neosho is accomplished by the filtering, liquefaction and separation of large volumes of air, followed by liquefaction of nitrogen through a compression/expansion process. The entire process utilizes three large compressors, which are powered by large electric motors. Over 96% of the electricity at Neosho is consumed in the production process by these large motors. Electricity comprises over 70% of our operating costs. Since our expansion in 1992, we are Empire's largest customer. Nationally, we spend over \$250 million per year on electricity.

- Q. Are there unique aspects to your Neosho operation which relate to electricity use?
- A. Our Neosho operation has been designed to operate with great flexibility in its power consumption. While capable of running at a very high load factor, the Neosho plant can quickly adjust its production output while maintaining efficiency, and change power demand by over two thousand kilowatts. Our Neosho plant has also been designed to interrupt over 95% of its demand load on very short notice.

Q. How is Praxair dealing with its competitive challenges?

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A. There is a continuing emphasis on customers and marketing throughout the company. We aggressively seek a better understanding of our customers and what is important to them.

Determining and providing for customers' needs and wants has is a perpetual priority. The demands of our customers are often unique and varied, but if we do not accommodate them, someone else will. One general theme we see is that virtually all customers want options and choices.

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It is important to realize that Praxair does not operate in a marketplace where we can simply add additional costs to the current pricing of our products and pass those costs through without market impact. We must meet market clearing prices for our products or lose sales and ultimately our markets to competitors. Our prices are set, not with respect to our costs, but rather with respect to our markets. The business of particular customers may be won, retained or lost often on differences of mere pennies per 100 cubic feet of product. Our costs do not determine the market or the prices we charge. The market is insensitive to our cost of production. cost of production is extremely relevant, not from a pricing standpoint, but as to whether we can make a profit or even continue our business. This is quite different from how regulation has historically functioned.

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 It follows from this that another theme is the key Praxair strategy of cost minimization. Maintenance of superior product quality is a given, otherwise one would go out of business in a competitive marketplace. Low costs are thus imperative to success in the industrial gas industry, and we must give constant attention to the reduction of costs in all areas. Work processes have been re-engineered and overhead reduced. Continuous improvement is demanded, as it is for most industries today. For the years preceding our acquisition of Liquid Carbonic, our worldwide and U.S. employment had declined by more than 6,500 and 2,200 employees respectively, a proportion of over 25%. Competitive pressures have forced significant cuts in our management, operational and clerical staff at Neosho as well.

Many supplier agreements have been renegotiated with lower pricing and better terms. Competitive bidding is being actively employed. In fact, electricity is the one major cost input in our business which can not yet be competitively sourced on a universal basis even though the overall economic benefits of doing so should be apparent.

In other areas, competition for our business had assured us wide choices of products and services at attractive pricing.

Competitive marketplaces have also resulted in a great deal of useful innovation on the part of suppliers. This has always been the case in competitive markets. As an example, with regard to our substantial natural gas and long-distance telephone usage (industries which were more recently deregulated), we now enjoy much greater customer focus and innovation on the part of suppliers. Deregulation in these industries as well as others has resulted in a plethora of appropriate products and services at competitive prices. We have every reason to believe that similar benefits will be realized in a competitive retail market for electricity.

- Q. Are there other steps that Praxair has taken to better meet its markets?
- A. We also employ a process that we term "economic dispatch."
- Q. Please explain.
- A. Economic dispatch refers to our approach to track overall costs and hold them to a minimum on a national basis. Combining Praxair's incremental production and distribution costs determines how much and when to produce at each plant and how to distribute to customers in order to minimize overall costs. Changes in power prices of one mill per kWh can affect our distribution radius by many miles. We do this through a

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process of tactical planning performed on a monthly basis. A sophisticated program consisting of rigorous models of customer demands and of our efficiencies, distribution costs, and electricity costs for each of our production facilities is utilized to perform this optimization. This process results in assigning customers to plants and indicates how much (and when) to produce at each location in order to minimize our total cost over the specified planning period.

More frequent operational planning is done still within the context of the monthly tactical plan. We adjust plant operations and power consumption on a daily or hourly basis as dictated by revised customer demands, inventory levels, vehicle and driver availability, and real time electricity prices where such information is available, all with the objective of cost minimization.

- Q. What is the role of electricity in Praxair's strategy for addressing its competitive challenges?
- A. Given electricity's strategic importance to us, it is mandatory that we use and manage it well. High energy efficiencies and competitively priced power are essential for us to compete. Improving the efficiencies of our equipment, processes, and technologies is an ongoing process. With regard to

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(1) Development of innovative rates and contracts with utilities, including interruptible rates, economic development incentives, time-of-use and incremental pricing, market-indexed pricing and power sale-back credits.

competitive power sourcing, strategies which play a role for

- (2) Location of plants and expansion based upon electricity considerations. We have shut down old plants and started new ones a few miles away on several occasions.
- (3) Economic dispatch among plants based on production and delivery costs to minimize total supply costs to serve our customers. Even small power price changes will affect distribution radius. The equivalent of over 7 million kWh per day are distributed by truck in North America.
- (4) Use of alternative customer production technologies which minimize the cost of the product.

1		(5)	Large-scale cogeneration plants have been installed
2	! :		by us in California and Texas. Small-scale options
3	!		are becoming more economical.
4			
5		(6)	Use of real-time pricing; further development of our
6			operating responsiveness, implementation of real-
7			time metering and communications, centralized opera-
8			tions management and optimization.
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10	ı	(7)	Load aggregation and the use of umbrella agreements
11			which cover multiple facilities.
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13		(8)	Participation in direct access programs. Develop-
14			ment and administration of requests for proposals
15	:		processes. Development of alternative suppliers,
16			including marketers, developers and other utilities.
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18			SUMMARY OF CONCERNS REGARDING PROPOSED MERGER
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20	Q.	Plea	se summarize your concerns regarding the proposed merger.
21	A.	As I	understand the regulatory process pertinent here, a
22		prop	osed merger of two utilities must not detrimentally affect
23	· !	the :	interests of ratepayers such as Praxair. In this context,

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I am concerned about three aspects of the proposed merger,

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namely the "stealth" rate increase that appears to have been included in the proposal and the proposal to charge the acquisition premium to the ratepayers. I also have concerns about the rate "freeze" that are related to the claims of operational savings.

PREAPPROVED RATE INCREASE PROPOSAL

- Q. Please discuss your concerns regarding the proposed rate increase.
- A. The applicants have proposed a rate "freeze" preceded, however, by a rate increase. Prior Commission approval for a large number of aspects of this rate case are sought as a part of the merger application. I believe this is incorrect and should be rejected.

- Q. Please explain why the proposed rate increase within the merger proposal should be rejected.
- A. A merger between these two companies should stand on its own economics at the time the companies performed their due diligence and signed their merger agreement. The economics of the merger either make sense for the entities as of that time or they do not. Subsequent speculation about a rate increase, while perhaps a consideration for the surviving entity's

- 14 -

Q. Are their other reasons that Praxair opposes this rate increase mechanism?

23 A.

A. Yes there are. Praxair is currently one of the two largest customers on the Empire District electric system and may, in

management, do not appear to me to be appropriate considerations in connection with the consideration of the merger and its impact on ratepayers. The merger should have been evaluated by the respective corporations without regard to a speculative future increase and as a result, that portion of the proposal should be disregarded.

Further, Missouri provides a comprehensive procedure for the submission by a utility of a proposed rate hike. In that procedure, there is ample opportunity for Commission Staff, Office of the Public Counsel, and other interested intervenors to thoroughly investigate and test the utility's claims for additional revenue entitlement. In this case, attention properly turns to the impact of the merger on ratepayers and typical rate case issues are properly not before the Commission. Seeking to obtain predetermination of numerous important aspects of a rate case decision as these applicants have done while in the context of a merger case is contrary to this procedure and should be rejected.

fact, currently be the largest. As I discussed earlier, the cost of electric energy is extremely important to us and represents a very large portion of our costs of production. Praxair is currently served under the terms of an interruptible contract whereby we are able to market our ability to sharply and quickly remove our load from the Empire system, thereby making Empire capacity available for other customers who are perceived to be higher priority. In that contract we have committed our company to operate in such a manner as to be ready and willing to reduce or completely remove our load from Empire's system on short notice. Correspondingly, Empire, with the approval of the Commission, has committed to us to supply interruptible power at rates which recognize the removal of some of the capacity costs that would be associated with a firm load of the same size. While we have in the past and may in the future have concerns about this total rate and its components as related to the cost providing that service causes Empire, those issues properly are not before the Commission in this proceeding.

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Q. Is perpetuation of these commitments and pricing important to Praxair's continued operations?

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Absolutely. Because our product cost is significantly based on the value of and resulting energy price from this contract,

adverse adjustments in these terms and conditions would be disruptive to our business. Our response to the pricing relationship includes the development of territorial responsibility, sales routings and delivery routings and staffing. The current contract would expire in 2004 and its pricing structure should not be disturbed before that time. We believed we bargained in good faith and have acted reasonably in reliance on the pricing in this contract. It would be disruptive to our business if those values were changed in a manner that was adverse to our competitive interests.

Q. Could not this occur in a rate case filing?

A. It certainly could, but that would only be as a result of a deliberate and full proceeding under the applicable laws and Commission procedures complete with adequate opportunity to investigate, obtain evidence and submit alternative considerations and appropriate information about our operations for the Commission's consideration. We understand the Applicants' proposal to essentially seek "preapproval" of such rate changes and we oppose that proposal as inappropriate in the context of a merger proceeding.

ACQUISITION PREMIUM RECOVERY

- Q. Please discuss the concern you mentioned regarding the acquisition premium recovery.
- A. I am an energy manager and not a rate expert or accountant.

 Regardless, I believe I understand that when one utility pays a premium above book for the assets or stock of another utility, the difference in broad terms represents an "acquisition premium." Here the Applicant's have sought through a series of mechanisms to charge the cost of that acquisition premium to the ratepayers, including Praxair, and we oppose that proposal.

Q. Why does Praxair oppose such treatment?

Because we believe that the service obligation of a public utility includes the responsibility to provide its services to the public at the lowest reasonable cost. As investor-owned utilities, decisions regarding business structure and business ownership, including mergers, are stockholder decisions.

However, those decisions are also the responsibility of the shareholders who should be fully informed and accept the costs associated with those decisions. Since the business structure of a public utility should be that which will result in the lowest reasonable cost to its ratepayers, mergers should not be at the cost of the ratepayers but at the cost of the shareholders

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- Q. Are you saying that utilities should not merge?
- A. No, no more than I am saying that other private or publicly held companies should not merge. When industries in competitive markets merge, they typically do so to reduce costs, gain access to additional lines of business, or to additional markets. They recognize that such combinations must result in true benefits since their customers have alternatives and will simply take business to remaining competitors. I believe a similar view is important for utility mergers as we move slowly but definitely into an era of customer choice.

- Q. What do you request that the Commission do in this regard?
- A. Neither my company nor other ratepayers should be required to absorb any portion of an acquisition premium, regardless of how creatively it is named, camouflaged or characterized.

 "Shared savings" mechanisms or "split recovery" mechanisms are all equally subject to this criticism and should be rejected by the Commission.

PROPOSED RATE "FREEZE"

- Q. What about the Applicants' proposal to "freeze" rates?
- 23 A. It is subject to the same criticism and should also be reject-24 ed.

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Q. Please explain.

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A. As I mentioned earlier, we believe a utility's obligation is to operate in the most economical manner possible consistent with safety and good practice. If a business combination results in savings, those savings should be manifest in reduced costs of operations. Those reduced costs should be returned to the ratepayers in lower rates on as current a basis as possible.

Q. How could this be accomplished?

A. The Commission could use a "show cause" proceeding. In this proceeding the utility would be required after a comparatively short period of time to come before the Commission and show cause why its rates should not be reduced by an amount corresponding to the claimed savings that were asserted in the merger proceeding. This would assure the ratepayers that actual cost savings that had been obtained would be passed through to them and the utility's claims regarding savings could be tested.

- Q. Is this the only mechanism that could be used?
- A. No, others could be devised including a series of automatic rate reductions that would be sequenced in accordance with the utility's claims of cost savings. This would avoid the

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potential problem of a utility seeking to shift expenses and revenues into or away from a particular test period through It would also have the additional benefit of various means. limiting claims of merger cost savings to amounts that were

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SUMMARY AND CONCLUSION

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Please summarize your testimony. Q.

truly believed achievable.

Praxair is concerned about the "stealth" rate increase that is being proposed by the Applicants because it would affect our existing rate and contract relationships with Empire District. We are also concerned that ratepayers not be required to fund or support utility acquisitions through payment of acquisition premiums and that claimed savings be currently returned to the ratepayers for whom the combined utility is continuing to provide service.

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- Does this conclude your testimony at this time?
- I thank the Commission for their attention to Yes it does. Praxair's concerns.

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