



## In conclusion...

Because you are a valued customer, the Pipeline Business Center is committed to meeting your needs. We are available to you 24 hours a day, 7 days a week. Praxair invites you to visit our Pipeline Business Center, and we look forward to serving you.

## Meters

Praxair's Pipeline Business Center uses modern flow computer technology as part of our commitment to reliable customer supply. Pressure and temperature compensated field mounted computers calculate flow on a real-time basis and record / report this data to the Business Center. Data retrieval in the event of a loss of telemetry between the remote operations is made possible due to these advanced devices. These devices are backed up with battery power and include remote telemetry monitors. The pipeline operations group routinely checks the status of all equipment. Calibration is performed annually or as requested by customers.

## Control Room Backup

Praxair's Pipeline Business Center's primary control room is located in The Woodlands, TX. This site is backed up with uninterruptible power in the form of batteries and natural gas generators. This same setup is replicated in the backup location in Willis, TX. Praxair has invested in a three tiered network supply from the South and a redundant supply from the North. The redundant data pathways are independent from point to point.



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## PBC

The Pipeline Business Center is a federally regulated control room located in The Woodlands, TX. The primary role of the Pipeline Business Center is to manage purity, flow and pressure in real-time. Our staff is trained to offer you consistently high quality service and to help ensure the safety and reliable delivery of our pipelines.



## Pipeline

The Pipeline Business Center adheres to the Control Room Management regulations prescribed by the Department of Transportation's Pipeline Hazardous Material Safety Administration (PHMSA). These regulations focus on fatigue mitigation, alarm rationalization and control, as well as workload analysis. Industry review of pipeline incidents repeatedly demonstrates that human error is a major contributing factor to preventable incidents and injuries. We train our managers to responsibly apply these regulations to help ensure the safety and control of our pipelines.



H<sub>2</sub> Pipeline

## National Responsibilities

Praxair's Pipeline Business Center manages 38 production sites, 131 customers, and over 575 miles of pipeline in six states, including six hydrogen pipelines, two oxygen pipelines and two nitrogen pipelines. Our production assets include 21 hydrogen production plants, one third party hydrogen source, five competitive hydrogen cross-ties, one high purity hydrogen storage cavern, nine air separation plants, five competitive oxygen and nitrogen cross-ties and numerous booster and valve stations.

## Supply and Backup

Our instantaneous oxygen, nitrogen and hydrogen supply capabilities are best in class. The oxygen and nitrogen backup systems are capable of replacing the product delivered through our pipelines at any moment, and the hydrogen backup can replace the production of our largest plant for up to 15 days of downtime!

## High Purity Hydrogen Storage Cavern

Praxair's Gulf Coast hydrogen pipeline system is supported by our high purity hydrogen storage cavern. This storage cavern is a solution-mined salt cavern located approximately halfway along the 270 mile Gulf Coast hydrogen pipeline. It is capable of storing 2.5 billion cubic feet of high purity hydrogen up to 2,200 psig.

