

Guardian Pipeline Project

CMS Gas Transmission



Joliet Compressor Station

A first-of-its-kind agreement outlining specific and environmentally friendly construction procedures on privately owned agricultural land was established between Guardian and the Wisconsin Department of Agriculture, Trade and Consumer Protection.

Project Award
March 1999

Project Completion
November 2002

United States

In March 1999, CMS Energy Corporation, WICOR, a subsidiary of Wisconsin Energy Corporation and Viking Gas Transmission, agreed to build the Guardian Pipeline to serve the growing needs of Illinois and Wisconsin. The 142-mile, 36-inch natural gas pipeline transports natural gas from interconnections with ANR, Northern Border, Natural Gas Pipeline Company of America, Midwestern Gas Transmission, and Peoples Gas at the Chicago hub near Joliet, Illinois, to northern Illinois and southern Wisconsin markets.

With a maximum flow capacity of 750 MMcf/d, the system includes a 22,225 horsepower grassroots compressor station located at Joliet, Illinois, where gas is boosted to 1,000 psig via five Caterpillar/Ariel 4,445 horsepower reciprocating compressor units. Nine meter stations, and launcher and receiver facilities, were also installed.

Willbros provided project management, engineering, procurement assistance and construction management for the project. Additional services included field reconnaissance and route selection, cost estimates, preparation of construction bid packages, survey and environmental permitting. Engineering and project management services were provided for the FERC application phase of the project.

The FERC application was filed in November 1999 and final approval was received March 14, 2001. The line began operation in December 2002.

