

USACE OMAHA - GOES DIRECT READOUT GROUND STATION



7/07/2006



OMAHA DISTRICT, U.S. ARMY CORPS OF ENGINEERS XCONNECT SOFTWARE & HDR GOES DIGITAL DIRECT READOUT GROUND STATION

The Omaha Corps of Engineers operates a network of over 1000 GOES platforms monitoring water level, water temperature, and lake levels in the upper Missouri River Basin. In addition, the COE operates as a backup receive site for the US Bureau of Reclamation in Boise, Idaho. In 2000, the original Sutron GOES ground station and VAX computer were moved from the COE building in downtown Omaha to the COE boat yard 10 miles north of the city. At that time the original 100 bps system was moved intact, including all of the 100bps demodulators, LNA, feed, and downconverter. A new 5-meter ground mount dish was installed at the boat yard.

In 2002 Sutron introduced the HDRDDGRS that supports the new NESDIS high data rate 300 and 1200 bps GOES platforms. The COE elected to upgrade the boat-yard receive site to the new standard so that they can continue to enhance their own system and continue to act as backup to the USBR and USGS.

OWNER: US Army Corps of Engineers, Omaha, NE

PURPOSE: Replace 20-year old Sutron ground station with new Sutron HDRDDGRS and XConnect MUX and Decoder front end software

EQUIPMENT: System consists of an existing 5-meter antenna installed by Sutron in 2000, 1 High Data Rate Digital Direct Readout Ground Station chassis and new feed/LNA assembly with hardware signal splitting.

DATE: 2002

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SUTRON