

0178-EX-ST-2003

NEW MEXICO INTERSTATE STREAM COMMISSION

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April 1, 2003

Federal Communications Commission
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

To Whom It May Concern:

I am applying for FCC Special Temporary Authorization (STA) for the State of New Mexico Office of the State Engineer (NMOSE) to operate 12 fixed/base stations described herein. It is my understanding that as a state government agency, we are exempt from filing fees and that Form 159 is not required. However, we have registered with the FCC and have been assigned FRN 0008717761. Thank you for your consideration of this request.

Name: New Mexico Office of the State Engineer

Address: P.O. Box 25102
Santa Fe, NM 87504-5102

Phone: 505-827-6118

Fax: 505-827-6188

Need for STA: The New Mexico Office of the State Engineer (NMOSE) is in the process of making application to the Federal Communications Commission for an Experimental License but has an emergency situation that requires that we begin transmission as soon as possible.

Type of Operation to be Conducted: The NMOSE needs to install remote transmitters operating on a frequency approved by NOAA/NESDIS that measure real-time water stage using Sutron Corporation's SatLink G312-1 and that transmit to NOAA's Geostationary Operational Environmental Satellites (GOES).

Purpose of the Operation: Due to extreme drought conditions in 2002 and continuing in 2003, reservoirs in New Mexico are at extreme low levels. The NMOSE needs to monitor and regulate diversions from rivers to ensure that water is properly distributed throughout the coming irrigation season anticipated to begin on or about April 15, 2003.

Time and Date of Proposed Operation: Under the requested STA, operation would begin April 15, 2003 and end October 15, 2003.

Class of Stations: Fixed/Base

Description of Locations:

<u>Longitude, Latitude</u>	<u>-</u>	<u>Site Name</u>
-107°43'01"	, 36°47'30"	Citizens Ditch Diversion
-108°00'32"	, 36°49'24"	Eledge Mill Ditch Diversion
-108°12'58"	, 36°42'53"	Farmers Mutual Ditch Diversion
-107°48'42"	, 36°44'38"	Hammond Canal Diversion
-108°01'00"	, 36°48'50"	Kello Blancett Ditch Diversion
-107°57'56"	, 36°52'09"	Lower Animas Ditch Diversion
-108°10'50"	, 36°43'52"	Willett Ditch Diversion
-107°54'50"	, 36°54'36"	Aztec Ditch Diversion
-107°58'15"	, 36°52'05"	Farmers Ditch Diversion
-108°02'50"	, 36°48'31"	Halford Ditch Diversion
-107°52'09"	, 36°59'59"	Twin Rocks Ditch Diversion
-108°08'58"	, 36°44'55"	Farmington-Echo Ditch Diversion

Equipment to be used: Sutron Corporation SatLink G312-1 high data rate satellite transmitter/data logger; Crossed Yagi antenna, 401.8 MHz, 11dB gain

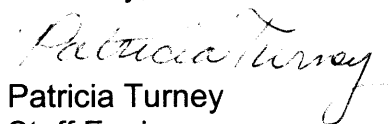
Frequency Desired: 401.9575 MHz

Maximum effective radiated power from antenna: 48.54 dBm Mean

Emission Description: Emission complies with NOAA/NESDIS "300/1200 BPS GOES Data Collection Platform Radio Set (DCPRS) Certification Standards", Version 1.0B, published March 2000. Data transmission rate is 300 bps using N X 45 degrees +/- 2.5 degrees modulation encoding. Section 4.2 of the aforementioned Certification Standards requires a 1.5 kHz channel bandwidth.

Overall Antenna Height above ground: Less than 12 feet

Sincerely,



Patricia Turney
Staff Engineer