

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WD9XEM

(Call Sign)

0061-EX-ST-2008

(File Number)

NAME Caterpillar, Inc.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Conducting outdoor electromagnetic compatibility immunity testing on prototype models of new, large earth-moving machinery.

Station Locations

- (1) Peoria (PEORIA), IL - NL 40-44-19; WL 89-27-26
- (2) Tucson (PIMA), AZ - NL 31-50-49; WL 111-08-29

Frequency Information

Peoria (PEORIA), IL - NL 40-44-19; WL 89-27-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
275 MHz	FX	0H00N0N 2K00A3E	500 W (ERP)	
325 MHz	FX	2K00A3E 0H00N0N	500 W (ERP)	

This authorization effective March 21, 2008 and
will expire 3:00 A.M. EST September 22, 2008

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Peoria (PEORIA), IL - NL 40-44-19; WL 89-27-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
375 MHz	FX	2K00A3E 0H00N0N	500 W (ERP)	

Tucson (PIMA), AZ - NL 31-50-49; WL 111-08-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
275 MHz	FX	0H00N0N 2K00A3E	500 W (ERP)	
325 MHz	FX	0H00N0N 2K00A3E	500 W (ERP)	
375 MHz	FX	0H00N0N 2K00A3E	500 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Nate Schenkel at 309-698-5201 (Desk) or 309-370-1497 (Cell).
- (4) Licensee must coordinate use of 275 MHz, 325 MHz and 375 MHz prior to use with Area Frequency Coordinator, State of Arizona, 520-538-6423 to avoid interference to government operations.

Special Conditions:

- (5) Licensee must coordinate with National Radio Astronomy Observatory (NRAO) with respect to the use of 325 MHz. This frequency falls within the 322 - 328.6 MHz band whose use by the Radio Astronomy service is established by footnote US342 to the U.S. Table of Frequency Allocations.

Please coordinate directly with Mr. Dan Mertely of NRAO, who may be reached at dmertely@nrao.edu.

- (6) Caterpillar indicated, in an email to NTIA, that the antenna being used was a log-periodic positioned 1-2 meters from the machine under test. Caterpillar must conduct the testing in this manner.
- (7) NTIA approves this STA for the set period of 21 March 2008 thru 21 September 2008 exclusively. No operations are allowed on these three (3) frequencies after that period without an STA extension or long term FCC license.