

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WC9XWS

(Call Sign)

0100-EX-ST-2007

(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 electromagnetic compatibility (EMC) immunity testing.

Station Locations

- (1) MOBILE: Peoria, IL, Caterpillar, Inc., Peoria Proving Grounds, within 5 km, centered around NL 40-44-48; WL 89-28-22
- (2) MOBILE: Tucson, AZ, Caterpillar, Inc., Tucson Proving Grounds, within 5 km, centered around NL 31-49-38; WL 111-08-38

Frequency Information

MOBILE: Peoria, IL, Caterpillar, Inc., Peoria Proving Grounds, within 5 km, centered around NL 40-44-48; WL 89-28-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21-21.45 MHz	MO	N0N 2K00A3N	500 W (ERP)	
25.21-25.33 MHz	MO	N0N 2K00A3E	500 W (ERP)	

This authorization effective April 03, 2007 and
will expire 3:00 A.M. EST October 03, 2007

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Peoria, IL, Caterpillar, Inc., Peoria Proving Grounds, within 5 km, centered around NL 40-44-48; WL 89-28-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
26.175-26.48 MHz	MO	N0N 2K00A3E	500 W (ERP)	
26.95-27.54 MHz	MO	N0N 2K00A3E	500 W (ERP)	
28-29.89 MHz	MO	N0N 2K00A3E	500 W (ERP)	
29.91-30 MHz	MO	N0N 2K00A3E	500 W (ERP)	
30.56-32 MHz	MO	N0N 2K00A3E	500 W (ERP)	
33-34 MHz	MO	N0N 2K00A3E	500 W (ERP)	
35-36 MHz	MO	N0N 2K00A3E	500 W (ERP)	
37-37.5 MHz	MO	N0N 2K00A3E	500 W (ERP)	

Frequency Information

MOBILE: Peoria, IL, Caterpillar, Inc., Peoria Proving Grounds, within 5 km, centered around NL 40-44-48; WL 89-28-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
39-40 MHz	MO	N0N 2K00A3E	500 W (ERP)	
42-46.6 MHz	MO	N0N 2K00A3E	500 W (ERP)	
47-49.6 MHz	MO	N0N 2K00A3E	500 W (ERP)	
50-73 MHz	MO	N0N 2K00A3E	500 W (ERP)	
75.4-88 MHz	MO	N0N 2K00A3E	500 W (ERP)	
121.9375-123.0875 MHz	MO	N0N 2K00A3E	500 W (ERP)	
128.8125-132.0125 MHz	MO	N0N 2K00A3E	500 W (ERP)	
144-148 MHz	MO	N0N 2K00A3E	500 W (ERP)	

Frequency Information

MOBILE: Peoria, IL, Caterpillar, Inc., Peoria Proving Grounds, within 5 km, centered around NL 40-44-48; WL 89-28-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150.8-157.0375 MHz	MO	N0N 2K00A3E	500 W (ERP)	
157.1875-162.0125 MHz	MO	N0N 2K00A3E	500 W (ERP)	
173.2-173.4 MHz	MO	N0N 2K00A3E	500 W (ERP)	
174-192 MHz	MO	N0N 2K00A3E	500 W (ERP)	
198-216 MHz	MO	N0N 2K00A3E	500 W (ERP)	
450-460 MHz	MO	N0N 2K00A3E	500 W (ERP)	
806-902 MHz	MO	N0N 2K00A3E 20K0P0N	500 W (ERP)	
928-932 MHz	MO	N0N 2K00A3E	500 W (ERP)	

Frequency Information

MOBILE: Peoria, IL, Caterpillar, Inc., Peoria Proving Grounds, within 5 km, centered around NL 40-44-48; WL 89-28-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
928-932 MHz	MO	20K0P0N	500 W (ERP)	
935-941 MHz	MO	N0N 2K00A3E 20K0P0N	500 W (ERP)	
944-960 MHz	MO	N0N 2K00A3E 20K0P0N	500 W (ERP)	

MOBILE: Tucson, AZ, Caterpillar, Inc., Tucson Proving Grounds, within 5 km, centered around NL 31-49-38; WL 111-08-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21-21.45 MHz	MO	N0N 2K00A3E	500 W (ERP)	
25.21-25.33 MHz	MO	N0N 2K00A3E	500 W (ERP)	
26.175-26.48 MHz	MO	N0N 2K00A3E	500 W (ERP)	
26.95-27.54 MHz	MO	N0N	500 W (ERP)	

Frequency Information

MOBILE: Tucson, AZ, Caterpillar, Inc., Tucson Proving Grounds, within 5 km, centered around NL 31-49-38; WL 111-08-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
26.95-27.54 MHz	MO	2K00A3E	500 W (ERP)	
28-29.89 MHz	MO	N0N 2K00A3E	500 W (ERP)	
29.91-30 MHz	MO	N0N 2K00A3E	500 W (ERP)	
30.56-32 MHz	MO	N0N 2K00A3E	500 W (ERP)	
33-34 MHz	MO	N0N 2K00A3E	500 W (ERP)	
35-36 MHz	MO	N0N 2K00A3E	500 W (ERP)	
37-37.5 MHz	MO	N0N 2K00A3E	500 W (ERP)	
39-40 MHz	MO	N0N 2K00A3E	500 W (ERP)	
42-46.6 MHz	MO	N0N	500 W (ERP)	

Frequency Information

MOBILE: Tucson, AZ, Caterpillar, Inc., Tucson Proving Grounds, within 5 km, centered around NL 31-49-38; WL 111-08-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
42-46.6 MHz	MO	2K00A3E	500 W (ERP)	
47-49.6 MHz	MO	N0N 2K00A3E	500 W (ERP)	
50-54 MHz	MO	N0N 2K00A3E	500 W (ERP)	
121.9375-123.0875 MHz	MO	N0N 2K00A3E	500 W (ERP)	
128.8125-132.0125 MHz	MO	N0N 2K00A3E	500 W (ERP)	
144-148 MHz	MO	N0N 2K00A3E	500 W (ERP)	
150.8-157.0375 MHz	MO	N0N 2K00A3E	500 W (ERP)	
157.1875-162.0125 MHz	MO	N0N 2K00A3E	500 W (ERP)	
173.2-173.4 MHz	MO	N0N	500 W (ERP)	

Frequency Information

MOBILE: Tucson, AZ, Caterpillar, Inc., Tucson Proving Grounds, within 5 km, centered around NL 31-49-38; WL 111-08-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
173.2-173.4 MHz	MO	2K00A3E	500 W (ERP)	
450-460 MHz	MO	N0N 2K00A3E	500 W (ERP)	
806-902 MHz	MO	N0N 2K00A3E 20K0P0N	500 W (ERP)	
928-932 MHz	MO	N0N 2K00A3E 20K0P0N	500 W (ERP)	
935-941 MHz	MO	N0N 2K00A3E 20K0P0N	500 W (ERP)	
944-960 MHz	MO	N0N 2K00A3E 20K0P0N	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.

Special Conditions:

- (3) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.
- (4) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.