

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

EXPERIMENTAL

(Nature of Service)

WD9XKC

(Call Sign)

XD FX MO

(Class of Station)

0656-EX-ST-2008

(File Number)

NAME LOCKHEED MARTIN CORPORATION

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:

To test and demonstrate of surveillance system to support air traffic.

Station Locations

- (1) Syracuse (ONONDAGA), NY - NL 43-06-43; WL 76-11-18; MOBILE: Syracuse, NY, within 1 km, centered around NL 43-06-43; WL 76-11-18
- (2) MOBILE: Syracuse, NY, within 1 km, centered around NL 43-05-20; WL 76-05-53
- (3) MOBILE: Cazenovia, NY, within 1 km, centered around NL 42-52-36; WL 75-55-27

Frequency Information

Syracuse (ONONDAGA), NY - NL 43-06-43; WL 76-11-18; MOBILE: Syracuse, NY, within 1 km, centered around NL 43-06-4

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M33M1D	131 kW (ERP)	
2740 MHz	MO	4M00P0N	52 MW (ERP)	

This authorization effective January 11, 2009 and
will expire 3:00 A.M. EST June 11, 2009

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Syracuse (ONONDAGA), NY - NL 43-06-43; WL 76-11-18; MOBILE: Syracuse, NY, within 1 km, centered around NL 43-06-4

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2760 MHz	MO	4M00P0N	52 MW (ERP)	
2805 MHz	MO	4M00P0N	52 MW (ERP)	
2850 MHz	MO	4M00P0N	52 MW (ERP)	
2875 MHz	MO	4M00P0N	52 MW (ERP)	
2895 MHz	MO	4M00P0N	52 MW (ERP)	

MOBILE: Syracuse, NY, within 1 km, centered around NL 43-05-20; WL 76-05-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M33M1D	131 kW (ERP)	
2740 MHz	MO	4M00P0N	52 MW (ERP)	
2760 MHz	MO	4M00P0N	52 MW (ERP)	
2805 MHz	MO	4M00P0N	52 MW (ERP)	

Frequency Information

MOBILE: Syracuse, NY, within 1 km, centered around NL 43-05-20; WL 76-05-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2850 MHz	MO	4M00P0N	52 MW (ERP)	
2875 MHz	MO	4M00P0N	52 MW (ERP)	
2895 MHz	MO	4M00N0N	52 MW (ERP)	

MOBILE: Cazenovia, NY, within 1 km, centered around NL 42-52-36; WL 75-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	6M33M1D	131 kW (ERP)	
2740 MHz	MO	4M00P0N	52 MW (ERP)	
2760 MHz	MO	4M00P0N	52 MW (ERP)	
2805 MHz	MO	4M00P0N	52 MW (ERP)	
2850 MHz	MO	4M00P0N	52 MW (ERP)	
2875 MHz	MO	4M00P0N	52 MW (ERP)	

Frequency Information

MOBILE: Cazenovia, NY, within 1 km, centered around NL 42-52-36; WL 75-55-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2895 MHz	MO	4M00P0N	52 MW (ERP)	

Special Conditions:

- (1) 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.
- (2) The applicant uses an average PRR of 164 interrogations per second when operating on 1030 MHz and that operations on 1030 MHz are confined to only Mode-3A and 3C interrogations. Under no circumstances is Mode-S or Mode-4 to be transmitted on 1030 MHz.
- (3) 2885 MHz Blank +/- 5 degrees toward the coordinates 421159N 0755905W to protect operations in Binghamton, NY on 2885 MHz approximately 53 NM away.
- (4) 2865 MHz Blank +/- 5 degrees toward the coordinates 423511N0740351W to protect operations in Albany, NY on 2865 MHz approximately 98 NM away.

Special Conditions:

- (5) Transmitter blanking is required within +/- 5 degrees of the bearing toward the listed coordinates when operating on the listed frequencies:

2740 MHz Blank +/- 5 degrees toward the coordinates 431341N 752526W to protect operations in Rome, NY on 2737.49 MHz that is approximately 31NM away.

2760 MHz Blank +/- 5 degrees toward the coordinates 441834N 753844W to protect operations in Ottawa, CAN on 2760 MHz located approximately 135NM away. Also blank +/- 5 degrees toward the coordinates 440615N 0753844W to protect operations in Ft. Drum, NY on 2765 MHz located approximately 64NM away.

2805 MHz No blanking required.

2850 MHz Blank +/- 5 degrees toward the coordinates 452030N 0755500W to protect operations in Kanata Onterio, CAN on 2850 MHz located approximately 135 NM away.

2875 MHz Blank +/- 5 degrees toward the coordinates 452030N 0755500W to protect operations in Kanata Onterio, CAN on 2875 MHz located approximately 135 NM away.

2895 MHz Blank +/- 5 degrees toward the coordinates 421250N 0755844W to protect operations in Binghampton, NY on 2895 MHz located approximately 53 NM away.

- (6) The operation of the SSR interrogations on 1030 MHz are conducted in strict accordance with the parameters in your attached files and the average interrogation rate is confined to between 222 and 250 interrogations per second.