

## Response to FCC Inquiry

Applicant: AKELA Inc.  
File Number: 0054-EX-ML-2012  
Correspondence Reference Number: 16841  
Date of Original Email: 05/04/2012  
Date of This Response: 05/17/2012

### Inquiry:

**Did Akela file a waiver request with the Wireless Bureau? If so, what is the status? Please submit an exhibit describing the nature of the test locations and need for such a large number of test sites.**

### Response (waiver):

AKELA requested a waiver on August 3, 2011. The waiver was granted on November 9, 2011, under DA 11-1870, by letter from Scot Stone, Deputy Chief, Mobility Division, Wireless Telecommunications Bureau to Mitchell Lazarus, Counsel for AKELA, Inc.

The experimental license is needed for the testing of units that AKELA believes are compliant with the terms of the waiver but have not yet received FCC certification.

### Response (test locations):

AKELA will conduct tests of its Through-the-Wall System (TWS) in conjunction with the National Institute of Justice (NIJ) Sensor, Surveillance and Biometric Technologies (SSBT) Center of Excellence (CoE).

AKELA requested 37 additional locations on its experimental license to facilitate three types of activities: test and evaluation of technical performance, field assessment in law enforcement scenarios/environments, and demonstration to law enforcement stakeholders.

AKELA will retain ultimate control of all devices through all testing.

AKELA will test its TWS prototype in conjunction with the SSBT CoE to evaluate the technical performance, characteristics, and limitations of the device. This work will focus on engineering metrics, with operation conducted in controlled environments and locations, both indoors and outdoors. Operation will be conducted by skilled engineers and scientists with a background in sensors, testing best practices, and scientific methodology. Supporting locations include:

Name	Address	Coordinates	Radius (km)
ManTech International Corporation	1000 Technology Dr, Fairmont, WV 26554	39.431586,-80.193458	1
Azimuth, Inc	3741 Morgantown Industrial Park, Morgantown, WV 26501	39.608879,-79.975869	0.1

The second type of operation will involve field assessment of the AKELA TWS prototype in law enforcement scenarios and environments. To develop accurate and realistic assessments that are relevant to the target end-user community, these activities will be performed off-site at law enforcement operation and training facilities in coordination with law enforcement professionals. Due to the schedules and availability of law enforcement partners, additional contingency agencies and their associated locations have been included so as to meet the required NIJ evaluation schedule and still maintain a high level of field assessment. Supporting locations include:

Name	Address	Coordinates	Radius (km)
WV SP Troop 1 HQ	1085 South Pike Street Shinnston, WV 26431	39.381885,-80.307092	1
WV SP Troop 2 HQ	409 industrial Boulevard Kearneysville, WV 24530	39.349357,-77.873894	1
WV SP Troop 3 HQ	1300 Harrison Ave. Elkins, WV 26241	38.931556,-79.8639	1
WV SP Troop 4 HQ	711 Jefferson Road South Charleston, WV 25309	38.356675,-81.714495	1
WV SP Troop 5 HQ	8040 Old Logan Road Chapmanville, WV 25508	37.935939,-82.004389	1
WV SP Troop 6 HQ	105 Pinecrest Drive Beckley, WV 25801	37.781044,-81.160651	1
Federal Correctional Institution	446 Greenbag Road Morgantown, WV 26501	39.59934,-79.944763	0.25
Correction Facility	US 250 Pruntytown, WV	39.331414,-80.075376	0.25
Fairmont City Jail	300 Monroe St Fairmont WV 26554	39.484787,-80.144051	0.25
El Paso Sheriff's Training Academy	12501 Montana Avenue, El Paso, TX 79938	31.808391, -106.254691	1
Atlanta Police Department Training Academy	180 Southside Ind pky, Atlanta, Georgia 30315	33.652280, -84.383637	1
Gwinnett County Police Training Center	854 Winder Hwy., Lawrenceville, GA, 30049	33.969871, -83.953099	0.75
Gwinnett County Jail	2900 University Parkway Lawrenceville, GA 30043	33.981321, -83.976885	1
San Bernardino County Sheriff's Training Center	18000 Institution Road, Devore, California 92407	34.177725, -117.384796	1
Chicago Police Education and Training Academy	1300 W. Jackson Blvd, Chicago, IL 60607	41.878001,-87.659746	1
Chief James G. Jackson Columbus Police Academy	1000 North Hague Avenue, Columbus, Ohio 43204	39.978288,-83.07842	1
Fairfax County Fire and Rescue Academy	4600 West Ox Road Fairfax, VA 22030	38.854414,-77.374413	1
West Virginia State Police Academy	135 Academy Drive, Dunbar, WV 25064	38.3812,-81.758103	1

The third type of operation will involve demonstration of the AKELA TWS prototype in public or private venues. These demonstrations will be important to gather a wide range of feedback and insight on the operation, usability, and functionality of the device to aid AKELA, CoE, and NIJ R&D activities. Demonstration locations include criminal justice facilities, public conferences, and user events. Due to the schedules and availability of law enforcement partners, additional contingency agencies and their associated locations have been included so as to meet the required NIJ end-user feedback needs. Supporting locations include:

Name	Address	Coordinates	Radius (km)
Baybridge Airport	Stevensville, MD 21666	38.97419,-76.326313	1
Tampa Convention Center	333 South Franklin Street, Tampa, FL	27.94236,-82.45604	0.25
Gaylord National	201 Waterfront Street, Oxon Hill, MD 20745	38.781488,-77.016606	0.25
Moundsville Prison	Jefferson Ave Moundsville, WV 26041	39.915883,-80.743045	1
San Diego Convention Center	111 E Harbor Dr, San Diego CA. 92101	32.707307,-117.163085	0.25

Marion County Armory	1506 Mary Lou Retton Drive Fairmont WV 26554	39.464953,-80.163181	0.25
Fairmont City Police	500 Quincey Street Fairmont WV 26554	39.486994,-80.140774	0.25
San Bernardino County Sheriff Headquarters	655 East Third Street, San Bernardino, CA. 92415	34.104307, -117.273088	0.25
Chicago Police Department	3510 South Michigan Ave., Chicago, IL 60653	41.830649,-87.623831	0.25
Michigan State Police Headquarters	333 S. Grand Avenue, Lansing, Michigan 48823	42.734574,-84.480223	0.25
Pinellas County Sheriff's Office	10750 Ulmerton Road Largo, FL 33778	27.89303,-82.791665	0.75
Vermont State Police	103 South Main Street, Waterbury, VT 05671	44.332336,-72.754984	0.25
Hennepin County Sheriff's Office (HCSO)	350 South 5th Street -130, Minneapolis, MN 55415	44.977739,-93.265182	0.25
Cincinnati Police Department	310 Ezzard Charles Drive, Cincinnati, OH 45238	39.109551,-84.521245	0.25
Columbus Division of Police-Headquarters	120 Marconi Boulevard Columbus, OH 43215	39.96433,-83.004048	0.25
National Institute of Justice	810 7th Street, NW, Washington, DC 20531	38.903157,-76.996133	0.2
HIDTA West Texas	4141 Pinnacle, Ste 120, El Paso, TX 79902	31.794504,-106.514844	0.1