

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WK2XDD

(Call Sign)

0961-EX-CN-2018

(File Number)

NAME Swarm Technologies, Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) MOBILE: Flowery Branch, GA, within 15 km, centered around NL 34-11-32; WL 83-56-28
- (2) MOBILE: Draper, UT, within 15 km, centered around NL 40-28-53; WL 111-49-23
- (3) MOBILE: Palo Alto, CA, within 15 km, centered around NL 37-27-18; WL 122-06-39
- (4) MOBILE: Austin, TX, within 15 km, centered around NL 30-12-32; WL 97-40-38
- (5) MOBILE: Cumming, GA, within 15 km, centered around NL 34-05-31; WL 84-11-13
- (6) MOBILE: Waimea, HI, within 15 km, centered around NL 20-01-54; WL 155-41-44
- (7) MOBILE: Dededo, GU, within 15 km, centered around NL 13-31-03; EL 144-50-49
- (8) MOBILE: Agat, GU, within 15 km, centered around NL 13-21-00; EL 144-41-52
- (9) MOBILE: St. Croix, within 15 km, centered around NL 17-44-01; WL 64-45-34
- (10) MOBILE: Oakland, CA, within 15 km, centered around NL 37-48-11; WL 122-16-22
- (11) MOBILE: Napa, CA, within 15 km, centered around NL 38-20-20; WL 122-21-41
- (12) MOBILE: Richmond, CA, within 15 km, centered around NL 37-55-45; WL 122-25-52
- (13) MOBILE: Fairbanks, AK, within 15 km, centered around NL 64-53-57; WL 147-43-18
- (14) MOBILE: Tampa, FL, within 15 km, centered around NL 27-52-38; WL 82-29-45
- (15) MOBILE: Boulder, CO, within 15 km, centered around NL 40-00-54; WL 105-16-14
- (16) MOBILE: Vallejo, CA, within 15 km, centered around NL 38-06-19; WL 122-12-59
- (17) MOBILE: Suffolk, VA, within 15 km, centered around NL 36-43-34; WL 76-35-57
- (18) MOBILE: Philadelphia, PA, within 15 km, centered around NL 39-57-40; WL 75-11-09
- (19) MOBILE: Fort Bliss, TX, within 15 km, centered around NL 31-49-51; WL 106-23-42
- (20) MOBILE: Jacumba Hot Springs, CA, within 15 km, centered around NL 32-37-31; WL 116-08-39
- (21) MOBILE: St. Thomas, VI, within 15 km, centered around NL 18-20-52; WL 64-55-55
- (22) MOBILE: Woburn, MA, within 15 km, centered around NL 42-29-44; WL 71-07-39
- (23) MOBILE: Franconia, VA, within 15 km, centered around NL 38-46-18; WL 77-08-17

This authorization effective May 21, 2019 and
will expire 3:00 A.M. EST June 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (24) MOBILE: Cape Canaveral, FL, within 15 km, centered around NL 28-32-33; WL 80-38-09
- (25) MOBILE: Albuquerque, NM, within 15 km, centered around NL 35-03-17; WL 106-35-37
- (26) MOBILE: Mojave, CA, within 15 km, centered around NL 34-58-27; WL 117-58-04
- (27) MOBILE: Fredericksburg, VA, within 15 km, centered around NL 38-18-12; WL 77-26-12
- (28) MOBILE: Tall Trees Grove, CA, within 15 km, centered around NL 41-12-29; WL 123-59-35
- (29) MOBILE: Matinicus Island, ME, within 15 km, centered around NL 43-51-13; WL 68-54-02
- (30) MOBILE: Arlington, VA, within 15 km, centered around NL 38-53-34; WL 77-05-07
- (31) MOBILE: Chula Vista, CA, within 15 km, centered around NL 32-34-41; WL 116-51-13
- (32) MOBILE: Monhegan Island, ME, within 15 km, centered around NL 43-45-34; WL 69-18-59
- (33) MOBILE: IVO Wells, NV, within 15 km, centered around NL 41-04-02; WL 115-01-30
- (34) MOBILE: Dog Island, FL, within 15 km, centered around NL 29-48-34; WL 84-35-51
- (35) MOBILE: St. Vincent Island, FL, within 15 km, centered around NL 29-40-26; WL 85-09-43
- (36) MOBILE: Sand Key, FL, within 15 km, centered around NL 24-37-41; WL 82-52-19
- (37) MOBILE: Twin Lakes, AK, within 15 km, centered around NL 60-37-59; WL 153-54-34
- (38) MOBILE: Terlingua, TX, within 15 km, centered around NL 29-19-20; WL 103-37-02
- (39) MOBILE: New York City, NY, within 15 km, centered around NL 40-42-10; WL 74-00-36
- (40) MOBILE: Rio Grande, PR, within 15 km, centered around NL 18-17-37; WL 65-47-04
- (41) MOBILE: Sandia Crest, NM, within 15 km, centered around NL 35-12-38; WL 106-26-58
- (42) MOBILE: Idaho Falls, ID, within 15 km, centered around NL 43-30-41; WL 112-02-32
- (43) MOBILE: Burbank, CA, within 15 km, centered around NL 34-11-51; WL 118-21-25
- (44) MOBILE: Fayetteville, NC, within 15 km, centered around NL 35-05-50; WL 78-58-19
- (45) MOBILE: Colorado Springs, CO, within 15 km, centered around NL 38-47-16; WL 104-51-00
- (46) MOBILE: Harrisburg, PA, within 15 km, centered around NL 40-16-23; WL 76-53-10
- (47) MOBILE: Pittsburgh, PA, within 15 km, centered around NL 40-26-26; WL 79-59-44
- (48) MOBILE: Everett, CO, within 15 km, centered around NL 39-04-15; WL 106-28-56
- (49) MOBILE: Asheboro, NC, within 15 km, centered around NL 35-42-29; WL 79-48-59
- (50) MOBILE: Palm Springs, CA, within 15 km, centered around NL 33-47-43; WL 116-29-59
- (51) MOBILE: Vacaville, CA, within 15 km, centered around NL 38-25-34; WL 121-55-29
- (52) MOBILE: Saxon, CA, within 15 km, centered around NL 38-26-47; WL 121-37-55
- (53) MOBILE: Fairfield, CA, within 15 km, centered around NL 38-12-32; WL 122-02-41
- (54) MOBILE: Olcott, CA, within 15 km, centered around NL 38-14-30; WL 121-48-19
- (55) MOBILE: Hood, CA, within 15 km, centered around NL 38-20-53; WL 121-32-01
- (56) MOBILE: Isleton, CA, within 15 km, centered around NL 38-08-57; WL 121-32-46
- (57) MOBILE: Herald, CA, within 15 km, centered around NL 38-16-38; WL 121-15-37
- (58) MOBILE: Stockton, CA, within 15 km, centered around NL 38-03-29; WL 121-22-30
- (59) MOBILE: Antioch, CA, within 15 km, centered around NL 38-03-33; WL 121-47-00
- (60) MOBILE: San Jose, CA, within 15 km, centered around NL 37-18-38; WL 121-53-13
- (61) MOBILE: Groveland, CA, within 15 km, centered around NL 37-50-36; WL 120-11-20
- (62) MOBILE: Lake Tahoe, CA, within 15 km, centered around NL 38-59-42; WL 120-05-44

Frequency Information

MOBILE: Flowery Branch, GA, within 15 km, centered around NL 34-11-32; WL 83-56-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Draper, UT, within 15 km, centered around NL 40-28-53; WL 111-49-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Palo Alto, CA, within 15 km, centered around NL 37-27-18; WL 122-06-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Austin, TX, within 15 km, centered around NL 30-12-32; WL 97-40-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Cumming, GA, within 15 km, centered around NL 34-05-31; WL 84-11-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Waimea, HI, within 15 km, centered around NL 20-01-54; WL 155-41-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Dededo, GU, within 15 km, centered around NL 13-31-03; EL 144-50-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Agat, GU, within 15 km, centered around NL 13-21-00; EL 144-41-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: St. Croix, within 15 km, centered around NL 17-44-01; WL 64-45-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Oakland, CA, within 15 km, centered around NL 37-48-11; WL 122-16-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Napa, CA, within 15 km, centered around NL 38-20-20; WL 122-21-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Richmond, CA, within 15 km, centered around NL 37-55-45; WL 122-25-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Fairbanks, AK, within 15 km, centered around NL 64-53-57; WL 147-43-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Tampa, FL, within 15 km, centered around NL 27-52-38; WL 82-29-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Boulder, CO, within 15 km, centered around NL 40-00-54; WL 105-16-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Vallejo, CA, within 15 km, centered around NL 38-06-19; WL 122-12-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Suffolk, VA, within 15 km, centered around NL 36-43-34; WL 76-35-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Philadelphia, PA, within 15 km, centered around NL 39-57-40; WL 75-11-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Fort Bliss, TX, within 15 km, centered around NL 31-49-51; WL 106-23-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Jacumba Hot Springs, CA, within 15 km, centered around NL 32-37-31; WL 116-08-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: St. Thomas, VI, within 15 km, centered around NL 18-20-52; WL 64-55-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Woburn, MA, within 15 km, centered around NL 42-29-44; WL 71-07-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Franconia, VA, within 15 km, centered around NL 38-46-18; WL 77-08-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Cape Canaveral, FL, within 15 km, centered around NL 28-32-33; WL 80-38-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Albuquerque, NM, within 15 km, centered around NL 35-03-17; WL 106-35-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Mojave, CA, within 15 km, centered around NL 34-58-27; WL 117-58-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Fredericksburg, VA, within 15 km, centered around NL 38-18-12; WL 77-26-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Tall Trees Grove, CA, within 15 km, centered around NL 41-12-29; WL 123-59-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Matinicus Island, ME, within 15 km, centered around NL 43-51-13; WL 68-54-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Arlington, VA, within 15 km, centered around NL 38-53-34; WL 77-05-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Chula Vista, CA, within 15 km, centered around NL 32-34-41; WL 116-51-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Monhegan Island, ME, within 15 km, centered around NL 43-45-34; WL 69-18-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: IVO Wells, NV, within 15 km, centered around NL 41-04-02; WL 115-01-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Dog Island, FL, within 15 km, centered around NL 29-48-34; WL 84-35-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: St. Vincent Island, FL, within 15 km, centered around NL 29-40-26; WL 85-09-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Sand Key, FL, within 15 km, centered around NL 24-37-41; WL 82-52-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Twin Lakes, AK, within 15 km, centered around NL 60-37-59; WL 153-54-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Terlingua, TX, within 15 km, centered around NL 29-19-20; WL 103-37-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: New York City, NY, within 15 km, centered around NL 40-42-10; WL 74-00-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Rio Grande, PR, within 15 km, centered around NL 18-17-37; WL 65-47-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Sandia Crest, NM, within 15 km, centered around NL 35-12-38; WL 106-26-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Idaho Falls, ID, within 15 km, centered around NL 43-30-41; WL 112-02-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Burbank, CA, within 15 km, centered around NL 34-11-51; WL 118-21-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Fayetteville, NC, within 15 km, centered around NL 35-05-50; WL 78-58-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Colorado Springs, CO, within 15 km, centered around NL 38-47-16; WL 104-51-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Harrisburg, PA, within 15 km, centered around NL 40-16-23; WL 76-53-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Pittsburgh, PA, within 15 km, centered around NL 40-26-26; WL 79-59-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Everett, CO, within 15 km, centered around NL 39-04-15; WL 106-28-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Asheboro, NC, within 15 km, centered around NL 35-42-29; WL 79-48-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Palm Springs, CA, within 15 km, centered around NL 33-47-43; WL 116-29-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Vacaville, CA, within 15 km, centered around NL 38-25-34; WL 121-55-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Saxon, CA, within 15 km, centered around NL 38-26-47; WL 121-37-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Fairfield, CA, within 15 km, centered around NL 38-12-32; WL 122-02-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Olcott, CA, within 15 km, centered around NL 38-14-30; WL 121-48-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Hood, CA, within 15 km, centered around NL 38-20-53; WL 121-32-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Isleton, CA, within 15 km, centered around NL 38-08-57; WL 121-32-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Herald, CA, within 15 km, centered around NL 38-16-38; WL 121-15-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Stockton, CA, within 15 km, centered around NL 38-03-29; WL 121-22-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Antioch, CA, within 15 km, centered around NL 38-03-33; WL 121-47-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: San Jose, CA, within 15 km, centered around NL 37-18-38; WL 121-53-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Frequency Information

MOBILE: Groveland, CA, within 15 km, centered around NL 37-50-36; WL 120-11-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

MOBILE: Lake Tahoe, CA, within 15 km, centered around NL 38-59-42; WL 120-05-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148.3-148.42 MHz	MO	20K8F1D	11.5 W (ERP)	0.002 %

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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 occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Transmissions from the Judy Gap, WV location are not permitted due to location within the National Radio Quiet Zone.
- (5) Prior to operations in the 148.3-148.42 MHz frequency band, licensee must complete the coordination with ORBCOMM License Corp. and operation of the authorized stations must be in compliance with the coordination agreements reached between the licensee and ORBCOMM License Corp.