

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WE2XDA

(Call Sign)

0054-EX-CM-2020

(File Number)

NAME Cobham Advanced Electronic Solutions 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) LANSDALE, PA - NL 40-16-10; WL 75-14-46

Frequency Information

LANSDALE, PA - NL 40-16-10; WL 75-14-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20-80 MHz	FX	NON	39.8 mW (ERP)	
80-108 MHz	FX	NON	39.8 mW (ERP)	
108.125 MHz	FX	NON	39.8 mW (ERP)	
110.125 MHz	FX	NON	39.8 mW (ERP)	

This authorization effective September 14, 2020 and
will expire 3:00 A.M. EST March 15, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

LANSDALE, PA - NL 40-16-10; WL 75-14-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
111.975 MHz	FX	N0N	39.8 mW (ERP)	
123.1125-123.5875 MHz	FX	N0N	39.8 mW (ERP)	
128.8125-132.0125 MHz	FX	N0N	39.8 mW (ERP)	
137.9875-224.9875 MHz	FX	N0N	39.8 mW (ERP)	
224.9875-320 MHz	FX	N0N	39.8 mW (ERP)	
320-400.0125 MHz	FX	N0N	39.8 mW (ERP)	
406.1-640 MHz	FX	N0N	39.8 mW (ERP)	
640-758 MHz	FX	N0N	39.8 mW (ERP)	
769-788 MHz	FX	N0N	39.8 mW (ERP)	
799-976 MHz	FX	N0N	39.8 mW (ERP)	

Frequency Information

LANSDALE, PA - NL 40-16-10; WL 75-14-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
983 MHz	FX	NON	39.8 mW (ERP)	
989 MHz	FX		39.8 mW (ERP)	
999 MHz	FX	NON	39.8 mW (ERP)	

Special Conditions:

- (1) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) 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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) Subject to prior coordination with FAA Eastern Regional Office, JFK International Airport, NY 11430, Attn: Frequency Management Office; Telephone 718-712-8343.
- (6) 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. Further renewal of this authorization is subject to prior coordination with SBE.
- (7) Operation was prior coordination with the Associated Public Safety Communications Officers, Inc. (APCO); ATTN: Ronald Haraseth; 351 North Williamson Blvd.; Daytona Beach, FL 32114-1112; Telephone: (386) 322-2500. Further renewal of this authorization is subject to prior coordination with APCO.
- (8) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Paul Carroll at (267) 372-6239.
- (9) Operation in 80-640 MHz is subject to immediate cessation if it causes harmful interference to Air Force, Army, Navy, Marine Corps or FAA.
- (10) Operation is prohibited in 24.99-25.01 MHz band.
- (11) Operation in Band 14 (758-769 MHz and 788-799 MHz) is prohibited.
- (12) As Per FAA Coordination, Cobham's operation in the 108-112 MHz band shall be limited to three discrete frequencies: 108.125 MHz; 110.125 MHz; 111.975 MHz

Special Conditions:

- (13) Within the range of 328.6-335.4 MHz, Cobham is authorized to operate only on the discrete frequencies 329MHz, 332MHz, and 335MHz.

Special Conditions:

- (14) As per FAA Coordination, Cobham is prohibited from operating on the following discrete frequencies (MHz):

225.4 , 226.675 , 227.125 , 229.4 , 233.7 , 235.625 , 235.775 , 235.975 ,
236.775 , 236.825 , 239 , 239.025 , 239.05 , 239.25 , 239.275 , 239.3 ,
243 , 244.575 , 244.875 , 251.05 , 251.075 , 251.1 , 251.125 , 251.15 ,
253.5 , 254.25 , 254.275 , 254.3 , 254.325 , 254.35 , 254.375 , 254.4 ,
255.4 , 256.7 , 256.8 , 256.875 , 256.9 , 257.2 , 257.6 , 257.625 ,
257.65 , 257.675 , 257.7 , 257.725 , 257.75 , 257.775 , 257.8 , 257.85 ,
257.875 , 257.9 , 257.925 , 257.95 , 257.975 , 259.1 , 259.3 , 263 ,
263.025 , 263.05 , 263.075 , 263.1 , 263.125 , 263.15 , 266.8 , 268.7 ,
269 , 269.025 , 269.05 , 269.075 , 269.1 , 269.125 , 269.15 , 269.175 ,
269.2 , 269.225 , 269.25 , 269.275 , 269.3 , 269.325 , 269.35 , 269.375
, 269.4 , 269.425 , 269.45 , 269.475 , 269.5 , 269.525 , 269.55 ,
269.575 , 269.6 , 269.625 , 269.9 , 270.1 , 270.25 , 270.275 , 270.3 ,
270.325 , 270.35 , 270.8 , 273.45 , 273.475 , 273.5 , 273.525 , 273.55 ,
273.575 , 273.6 , 275.8 , 276.4 , 277.4 , 278.3 , 278.8 , 279.5 ,
279.525 , 279.55 , 279.575 , 279.6 , 279.625 , 279.65 , 281.4 , 281.425
, 281.45 , 281.475 , 281.5 , 281.525 , 281.55 , 282.2 , 282.225 , 282.25
, 282.275 , 282.3 , 282.325 , 282.35 , 282.375 , 284 , 284.6 , 284.625 ,
284.65 , 284.675 , 284.7 , 284.725 , 284.75 , 285.4 , 285.425 , 285.45 ,
285.475 , 285.5 , 285.525 , 285.55 , 285.575 , 285.6 , 285.625 , 285.65
, 288.25 , 288.275 , 288.3 , 288.325 , 288.35 , 289.4 , 290.2 , 290.225 ,
290.25 , 290.275 , 290.3 , 290.325 , 290.35 , 290.375 , 290.4 , 290.425
, 290.45 , 290.475 , 290.5 , 290.525 , 290.55 , 290.9 , 291.1 , 291.6 ,
291.625 , 291.65 , 291.675 , 291.7 , 291.725 , 291.75 , 291.775 ,
292.125 , 292.15 , 292.175 , 292.2 , 293.225 , 294.7 , 296.7 , 298.85 ,
298.875 , 298.9 , 298.925 , 298.95 , 299.2 , 299.6 , 305.2 , 306.2 ,
306.3 , 306.9 , 306.925 , 306.95 , 306.975 , 307 , 307.025 , 307.05 ,
307.075 , 307.1 , 307.125 , 307.15 , 307.175 , 307.2 , 307.225 , 307.25
, 307.275 , 307.3 , 307.325 , 307.35 , 307.375 , 307.8 , 307.9 , 308.4 ,
310.8 , 314 , 316.05 , 316.075 , 316.1 , 316.125 , 316.15 , 317.4 ,
317.425 , 317.45 , 317.475 , 317.5 , 317.525 , 317.55 , 317.575 , 317.6
, 317.625 , 317.65 , 317.675 , 317.7 , 317.725 , 317.75 , 317.775 ,
317.8 , 318.1 , 318.2 , 318.8 , 319 , 319.1 , 319.15 , 319.2 , 319.25 ,
322.3 , 322.325 , 322.35 , 322.375 , 322.4 , 322.425 , 322.45 , 322.475
, 322.5 , 322.525 , 322.55 , 323 , 323.025 , 323.05 , 323.075 , 323.1 ,
323.125 , 323.15 , 323.175 , 323.2 , 323.225 , 323.25 , 323.275 , 323.3
, 326.2 , 327 , 327.025 , 327.05 , 327.075 , 327.1 , 327.125 , 327.15 ,
327.8 , 328.4 , 335.5 , 335.525 , 335.55 , 335.575 , 335.6 , 335.625 ,
335.65 , 335.8 , 336.4 , 338.2 , 338.225 , 338.25 , 338.275 , 338.3 ,
338.325 , 338.35 , 339.8 , 340.2 , 341.7 , 342.25 , 342.425 , 342.875 ,
343.6 , 343.625 , 343.65 , 343.675 , 343.7 , 343.725 , 343.75 , 346.25 ,
346.275 , 346.3 , 346.325 , 346.35 , 346.375 , 346.4 , 348 , 348.6 ,
348.625 , 348.65 , 348.675 , 348.7 , 348.725 , 348.75 , 349 , 350.2 ,
350.225 , 350.25 , 350.275 , 350.3 , 350.325 , 350.35 , 351.675 , 351.8
, 351.825 , 351.85 , 351.9 , 351.95 , 352 , 352.05 , 353.5 , 353.525 ,
353.55 , 353.575 , 353.6 , 353.625 , 353.65 , 353.675 , 353.7 , 353.725
, 353.75 , 353.775 , 353.8 , 353.825 , 353.85 , 353.875 , 353.9 ,
353.925 , 353.95 , 353.975 , 354 , 354.025 , 354.05 , 354.075 , 354.1 ,
354.125 , 354.15 , 355.6 , 360.2 , 360.6 , 360.625 , 360.65 , 360.675 ,
360.7 , 360.725 , 360.75 , 360.775 , 360.8 , 360.825 , 360.85 , 363 ,

Spec: 363.025 , 363.05 , 363.075 , 363.1 , 363.125 , 363.15 , 363.175 , 363.2
 , 363.225 , 363.25 , 370.85 , 370.875 , 370.9 , 370.925 , 370.95 ,
 371.85 , 371.875 , 371.9 , 371.925 , 371.95 , 371.975 , 372 , 377.05 ,
 377.075 , 377.1 , 377.125 , 377.15 , 377.175 , 377.2 , 379.1 , 379.125 ,
 379.15 , 379.175 , 379.2 , 379.225 , 379.25 , 379.275 , 379.3 , 379.9 ,
 379.925 , 379.95 , 379.975 , 380 , 380.025 , 380.05 , 380.1 , 380.15 ,
 380.2 , 380.225 , 380.25 , 380.3 , 380.35 , 380.6 , 381.4 , 381.45 ,
 381.5 , 381.55 , 381.6 , 381.65 , 382 , 385.4 , 385.425 , 385.45 ,
 385.5 , 385.55 , 385.6 , 385.65 , 387 , 387.025 , 387.05 , 387.075 ,
 387.1 , 387.15 , 388.2 , 390.8 , 391.9 , 392 , 392.1 , 397.85 , 397.875
 , 397.9

- (15) Within the range of 980 - 1000 MHz, Cobham's operation will be limited to the following discrete frequencies: 983 MHz; 989 MHz; 999 MHz
- (16) COBHAMS OPERATION WILL BE STRICTLY LIMITED TO THE FOLLOWING DISCRETE FREQUENCIES: 983 MHZ, 989 MHZ, 999 MHZ.
- (17) > The license is to support Cobham's IR&D activity

And

> The following TWO contracts would also be supported under this license:

Agency: NAVAIR

Contract No. N00019-18-C-1060 PO 1772536

POC: Jessica Vallandingham Myers, (301) 342-1839, jessica.myers@navy.mil

Agency: NAVAIR / NAWC Weapons Division

Contract No. N68936-18-C-0026 PO 1772965

POC: Thomas Vitale, 760-939-1603, thomas.vitale@navy.mil

- (18) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number: amended condition 17