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FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554

Approved by OMB
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Public reporting burden for this collection of information is estimated to average 4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Federal Communications Commission, Office of Managing Director, Washington, DC 20554, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (3060-0065), Washington, DC 20503.

APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION UNDER PART 5
OF FCC RULES - EXPERIMENTAL RADIO SERVICE (OTHER) THAN BROADCAST

A. Applicant's Name and Post Office address (Give street, city, state, and ZIP Code. See Instruction No. 4) BORLAS SALES CORPORATION 33 RANDOLPH AVENUE AVENEL, NEW JERSEY 07001	DO NOT WRITE IN THIS BLOCK File No. 3049-EX-PL 52																																																																																							
2.(a) Application for (check only one box) ☒ New Station ☐ Modification of existing authorization	2.(b) For Modification indicate below File No.: Call Sign:																																																																																							
3. Application for modification indicate change in (check all that apply) ☐ Frequency ☐ Emission ☐ Power ☐ Location ☐ Other particulars (describe below or in attached Exhibit No. _____)																																																																																								
4. Particulars of Operation (See instructions below) <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Frequency (State Whether kHz or MHz) (A)</th> <th colspan="3">POWER</th> <th rowspan="2">EMISSION (E)</th> <th rowspan="2">MODULATING SIGNAL (F)</th> <th rowspan="2">NECESSARY BANDWIDTH (kHz) (G)</th> </tr> <tr> <th>(B)</th> <th>(C)</th> <th>(D)</th> </tr> </thead> <tbody> <tr> <td>1.635.5 THRU</td> <td></td> <td>37 DBW</td> <td>MEAN</td> <td>F3E</td> <td>3000</td> <td>12</td> </tr> <tr> <td>1.645.0</td> <td></td> <td></td> <td></td> <td>F2D</td> <td>2600</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>F3C</td> <td>2600</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>O1B</td> <td>4800</td> <td>15</td> </tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td> </td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		Frequency (State Whether kHz or MHz) (A)	POWER			EMISSION (E)	MODULATING SIGNAL (F)	NECESSARY BANDWIDTH (kHz) (G)	(B)	(C)	(D)	1.635.5 THRU		37 DBW	MEAN	F3E	3000	12	1.645.0				F2D	2600	12					F3C	2600	12					O1B	4800	15																																																	
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(A) List each frequency or frequency band separately. (If more space is required, attach as Exhibit No. _____). (B) Insert maximum R.F. output power at the transmitter terminals. Specify units. (C) Insert maximum effective radiated power from the antenna (If pulsed emission specify peak power). (D) Insert "MEAN" or "PEAK" (See definitions in Part 5). (E) List each type of emission separately for each frequency. (See Section 2.201 FCC Rules.) (F) Insert as appropriate for the type of modulation: (1) the maximum speed of keying in bauds; (2) maximum audio modulating frequency; (3) frequency deviation of carrier; (4) pulse duration and repetition rate. For complex emissions, describe in detail in the space provided below. (G) Describe how the necessary bandwidth was determined in space provided below.																																																																																								

5(a). Proposed location of transmitter and transmitting antenna (Check only one box) ☐ FIXED/BASE ☒ MOBILE ☐ BASE & MOBILE									
(b) If permanently located at a fixed location, give below <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">State</td> <td style="width: 25%;">County</td> <td style="width: 50%;">City or Town</td> </tr> <tr> <td colspan="3">Number and street (or other indication of location)</td> </tr> </table>		State	County	City or Town	Number and street (or other indication of location)			(d) If mobile, describe the exact area of operation IN US AND OUTSIDE US	
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(c) Geographical coordinates exact to the nearest second <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">North Latitude ° ' "</td> <td style="width: 50%;">West Longitude ° ' "</td> </tr> </table>		North Latitude ° ' "	West Longitude ° ' "	(e) Geographical coordinates of the approximate center of proposed area of operation (mobile applications) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">North Latitude ° ' "</td> <td style="width: 50%;">West Longitude ° ' "</td> </tr> </table>		North Latitude ° ' "	West Longitude ° ' "		
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6. Is a directional antenna (<i>other than radar</i>) used? ☒ Yes ☐ No If "YES", give the following information: (a) Width of beam in degrees at the half-power point <u>10 DEG</u> (b) Orientation in horizontal plane _____ (c) Orientation in vertical plane _____ RIGHT HAND CIRCULAR									
7. Is this authorization to be used for fulfilling the requirement of a government contract with an agency of the United States Government? ☐ Yes ☒ No If "Yes", attach as EXHIBIT No. _____, a narrative statement describing the government project, agency, and contact number.									
8. Is this authorization to be used for the exclusive purpose of developing radio equipment for export to be employed by stations under the jurisdiction of a foreign government? ☐ Yes ☒ No If "Yes", attach as EXHIBIT No. _____, the following information: (a) The contract number and the name of the foreign government concerned.									
9. Is this authorization to be used for providing communications essential to a research project? (The radio communication is not the objective of the research project). ☐ Yes ☒ No If "Yes", attach as EXHIBIT No. _____, a narrative statement providing the following information: (a) A description of the nature of the research project being conducted. (b) A showing that the communications facilities requested are necessary for the research project involved. (c) A showing that existing communications facilities are inadequate.									
10. If all the answers to Items 7, 8, and 9, are "No", attach as EXHIBIT No. <u>1</u> , a narrative statement describing in detail the following: (a) The complete program of research and experimentation proposed including description of equipment and theory of operation. (b) The specific objectives sought to be accomplished. (c) How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along line not already investigated.									
11. (a) Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application. (b) If less than 2 years, give the length of time in months that the authorization requested in this application will be required.									
12. Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? ☐ Yes ☒ No If you answer yes, submit an Environmental Assessment required by Section 1.1311.									

13. List below, transmitting equipment to be installed (if experimental, so state):		NO. OF UNITS
MANUFACTURER	TYPE	
EB	SATURN COMPAC T	1

14. Is the equipment listed in Item 13 capable of station identification pursuant to Section 5.152?

☒ Yes
 ☐ No

15. Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building?

☐ Yes
 ☒ No

If "Yes", give the following (See Instruction 9):

(a) Overall height above ground to tip of antenna is _____ meters.

(b) Elevation of ground at antenna site above mean sea level is _____ meters.

(c) Distance to nearest aircraft landing area is _____ kilometers.

(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna.

(e) Submit as EXHIBIT No. _____, a vertical profile sketch of total structure including supporting building, if any, giving heights in meters above ground for all significant features. Clearly indicate existing portion, noting particulars of aviation obstruction lighting already available.

16. Applicant is (check only one box)

☐ Individual
☐ Association
☐ Partnership
☒ Corporation

☐ Other (describe below)

17. Is applicant a foreign government or a representative of a foreign government?

☐ Yes
 ☒ No

18. Has applicant or any party to this application had any FCC station license or permit revoked or had any application for permit, license or renewal denied by this Commission?

☐ Yes
 ☒ No

If "Yes", attach as EXHIBIT No. _____, a statement giving call sign of license or permit revoked and relate circumstances.

19. Will applicant be owner and operator of station?

☒ Yes
 ☐ No

20. Give name, title, and telephone number (include area code) of person who can best handle inquiries pertaining to this application.

21. List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified.

EXHIBITS AND ITEM NO. OF FORM					
Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form
1	THEORY OF OPERATION				