



United States of America  
**FEDERAL COMMUNICATIONS COMMISSION**  
**FM BROADCAST TRANSLATOR/BOOSTER**  
**STATION LICENSE**

Authorizing Official:

Official Mailing Address:

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BROADCAST SCIENCES LLC  
1240 HORSESHOE TRAIL  
MALVERN PA 19355

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James D. Bradshaw  
Deputy Chief  
Audio Division  
Media Bureau

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Facility Id: 142298

Call Sign: W221DG

License File Number: BLFT-20170106ACP

Grant Date: February 07, 2020

This license expires 3:00 a.m.  
local time, August 01, 2022.

This license covers permit no.: BMPFT-20160714ABR

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 set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

Callsign: W221DG

License No.: BLFT-20170106ACP

Name of Licensee: BROADCAST SCIENCES LLC

Principal community to be served: PA-EXTON

Primary Station: WRTI (FM) , Channel 211, PHILADELPHIA, PA

Via: Direct - off-air

Frequency (MHz): 92.1

Channel: 221

Hours of Operation: Unlimited

Antenna Coordinates: North Latitude: 40 deg 03 min 31 sec  
West Longitude: 75 deg 35 min 54 sec

Transmitter: Type Accepted. See Sections 73.1660, 74.1250 of the Commission's Rules.

Transmitter output power: 0.14 kW

Antenna type: (directional or non-directional): Directional  
Description: PSI FML2-3/4-DA

Major lobe directions 200  
(degrees true):

	Horizontally Polarized Antenna:	Vertically Polarized Antenna:
Effective radiated power in the Horizontal Plane (kw):	0.17	0.17
Height of radiation center above ground (Meters):	90	90
Height of radiation center above mean sea level (Meters):	309	309

Antenna structure registration number: 1030858

Overall height of antenna structure above ground (including obstruction lighting if any) see the registration for this antenna structure.

Special operating conditions or restrictions:

- 1 The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

\*\*\* END OF AUTHORIZATION \*\*\*