

ENGINEERING EXHIBIT NO. 7  
APPLICATION FOR LICENSE  
U. S. BROADCASTING LIMITED PARTNERSHIP  
FM STATION WPEZ  
JEFFERSONVILLE, GEORGIA  
CH 229C1                      100 KW                      207 M

This exhibit has been prepared on behalf of U. S. Broadcasting Limited Partnership, licensee of FM broadcast station WPEZ Jeffersonville, Georgia. Station WPEZ has been authorized a change in facilities, including an upgrade from Class C2 to C1. The facilities authorized in File No. BPH-20001003ACI include use of channel 229C1 (93.7 MHz), employing effective radiated power of 100 kilowatts, with antenna height above average terrain of 207 meters. Construction of the station has been completed, and the station is ready to be licensed.

The transmitting facility of WPEZ consists of a 30 KW transmitter, 246.9 meters (810 feet) of 3-inch Andrew type HJ8-50B air dielectric co-axial cable and an ERI type SHPX-8AC eight-bay, one-wavelength spaced antenna. The power transfer efficiency of the transmission line at 93.7 MHz is 77.7 percent. The gain of the ERI circularly polarized antenna is 4.49. Based on these values, the transmitter output power is 28.7 kilowatts for an effective radiated power of 100 kilowatts.

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A special condition on the construction permit specifies that station WVOH-FM Hazlehurst, GA (Facility ID 30658) must be licensed for operation on channel 228C3 before a license can be granted for WPEZ. The FCC computer database indicates that station WVOH-FM is licensed for operation on channel 228C3, File No. BLH-20010502AAV.

In all respects, the WPEZ construction is in complete accord with the FCC permit.



Louis R. du Treil, Sr.  
du Treil, Lundin & Rackley, Inc.  
201 Fletcher Avenue  
Sarasota, Florida 34237-6019  
941 329 6000

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