

St. Norbert College

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1925

### Excerpt from Des Peres Yearbook: Local College is Now Ready to Broadcast

The Des Peres Yearbook

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## Local College is Now Ready to Broadcast

(Special from the DePere Journal-Democrat, April 9th.) 1925

The work of installing equipment has been finished, the official license to broadcast has been received from the government, and everything is now in readiness to begin radio broadcasting at St. Norbert's College. A test program was given Sunday evening at 7:30, and very favorable reports were received from various quarters.

The license is for a first class station and the call is WHBY. George Carey, the athletic coach, has been selected as the official announcer. The right to broadcast at any time is granted in the license issued to the college. This license calls for first class musical entertainments and it follows that only the best instrumental and vocal music will be broadcasted in the programs.

The transmitter has an input of 500 watts and an output of 100 watts. The Heising system of modulation with the speech amplifier with modified Hertley oscillation, is being used. The antenna consists of a four wire inverted L cage 18 inches in diameter, 60 feet long, supported by two steel masts on the roof of Boyle Hall; this is balanced by a ten wire counterpoise directly beneath the antenna in the basement.

The transmitting night range is about 1000 miles. The tubes are lighted by alternating current. The voltage required for an ordinary receiving set is one-tenth of what is required of these tubes. The music is received from the college studio located in the main

building, and transferred over telephone lines to the operating station on the fourth floor of Boyle Hall where it is put through a bank of amplifiers and then impressed upon the grids of the modulator tubes. This audio frequency current is then applied to the carrier wave which is being sent out by the oscillation tubes.

The station fulfills the requirements of the government in being able to operate on 300 and 600 meters for use in time of national peril or distress signals which may be sent out by ships. The station is equipped with receiving sets that will immediately pick up messages that range from 20 to 25000 meters.

The college is fortunate in receiving a license to operate at any time for a period of three months on a wave length of 250 meters. This license can be renewed at the expiration of the stipulated time, as the Department of Commerce does not issue a license to Class A stations for longer than three months, due to the congested condition of the air which requires constant shifting of wave lengths.

The college authorities are desirous of having the public feel that they want to represent the community at large in the make-up of programs. The engineering staff will appreciate any comment from fans as to the quality of tone, so that they make necessary alternations to improve the reception and rectify defects in transmitting.