

ABSTRACT

This study aims to describe the broadcasting system used in Programa 2 (105 FM) at Radio Republik Indonesia (RRI), with an emphasis on technical aspects and operational procedures. The Programa 2 broadcasting system incorporates various components to ensure high quality audio signals are received by listeners. The main components in the system include the studio console, audio processor, FM modulator, power amplifier, and antenna system.

The studio console acts as a management center for various audio sources, such as microphones, telephone interfaces, and computer systems. Advanced audio processing techniques, including noise reduction and signal enhancement, are applied to maintain superior sound quality. The modulated audio signals are then amplified through an efficient power amplifier and transmitted through a well-structured antenna system, ensuring optimal coverage and minimal signal degradation.

The research methods used include direct observation of the broadcasting infrastructure at RRI stations, signal quality measurements at several reception points, and interviews with technicians responsible for system maintenance. The results show that the broadcasting system at Programa 2 (105 FM) has been operating well, with stable signal quality and adequate coverage. However, there are some technical aspects that require improvement, such as increasing transmitter efficiency and optimizing the signal distribution network.

Overall, this research provides insight into the importance of technology and proper management in radio broadcasting, as well as providing recommendations for the improvement and development of future broadcasting systems. With the improvement of this system, it is expected that Programa 2 (105 FM) can continue to provide quality information and entertainment services for the wider community.