**ABSTRACT** 

One of the needs of modern society now is a quick and safe transportation.

Including the choice fell to the air transport aircraft. It takes a good security system to

support aviation safety and security. To avoid accidents when the aircraft will arrive or

land at the airport it needs auxiliary facilities to support the operation of the airport

landing. One of such facilities is the Instrument Landing System (ILS) which is an

instrument landing aids (non-visual) used to assist pilots in making aircraft approach and

landing procedures at an airport. ILS consists of three sub-systems and one of them is the

Glide Slope that will be discussed in the manufacture of this Final.

In the Final Project it has been designed a sub block Glide slope transmitter

systems that work there are UHF frequencies between 329.3 to 335 MHz but only just a

prototype, A prototype that is designed is expected to be a system that can be applied

directly to the airport. To simplify design, the schematic used by an application data sheet

in addition to the design of filters and amplifiers, software Advanced Design System is

used to simulate the circuit directly so we get the corresponding results. Measurements

were performed using a transmitter block oscilloscope and spectrum analyzer to obtain

information about the performance and characteristics of the prototype which is made.

Prototype transmitter that has been realized has capability of generating a carrier

frequency of 329.3 MHz to 335 MHz frequency range and work in accordance with the

expected specifications. The sample frequency used was 329.3 MHz and 335 MHz.

Parameters that have been tested from the prototype transmitter block is the response

frequency and magnitude of output power. However, this prototype has not been able to

replace the existing transmitter equipment at the airport because still not perfect.

Keywords: ILS, Glide Slope

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