ASSESSING OF THE PAVEMENT ON THE RUNWAY AND TAXIWAY AT KUALA NAMU AIRPORT, DELI SERDANG - NORTH SUMATRA

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ABSTRACT

Airport is a supporting factor for the development in terms of economic, social, cultural, and industrial. While the existing airport is the city of Medan was not sufficient for the development of cities and infrastructure, due to the Polonia airport in Medan in the middle of town. So that flight activity can disrupt the surrounding area causing noise and cause trouble growing city growth, such as the construction of buildings that can not be too high which can interfere with aircraft visibility. Therefore, the development of Medan city need a new airport of international class standard, so as to support economic growth so that medan city could grow and reduce noise, and the condition of the airport, which is an international-class standard-size aircraft such as B-747-400 can carry a full load. Where the new airport will be built Deli Serdang area - namely North Sumatra, Kuala Namu Airport.

Assessing of the pavement at Kuala Namu Airport, Deli Serdang-North Sumatra using the methods of the Federal Aviation Administration (FAA), analyzes the runway, and land planning shaman power using PVD.
With the analysis conducted found that the thick of planning runway and taxiway pavement with a thick obtained FAA method = 109.63 cm critical and non critical = 97.65 cm. For the analysis of runway at the airport at Kuala Namu, the direction of the runway to determine the dominant wind direction led to the northeast. And for the land carrying capacity, the use of PVD using a square pattern with dimensions of 10 x 0.3 cm².

**keyword**: Kuala Namu Airport, Pavement Assessment Runway, and Taxiway.