STUDY OF THE AIRPLANE’S ACTIVITY AFFECT TO THE
NOISE AROUND SARMI AIRPORT PLAN, PAPUA

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Abstrak

Kabupaten Sarmi is a regency with extern position from Province of Papua. Airport development at Sarmi supposed can to support the growth of air transport need at period to come. Sarmi airport plan location reside in Coast East Districts area. One of negative effect (impact) from planning airport activities is the increasing of noise around airport.

This study uses airport noise predictions method follows the ECAC (European Civil Aviation Administration). This study is focus in single noise or a noise at the time of aeroplane rushes by. Noise value is influenced by distance between aeroplane position (source noise) with hitted impact area position (observation position). Aeroplane position on the air threaten in airport air space planning or Aviation Operation Welfare Area (KKOP). In this study, used 2 conditions of aeroplane position at KKOP, that is aeroplane position resides in entire KKOP area and at area approaches and free base only (take off and landing). Noise value at location / observation points depend on NPD (Noise-Power-Distance) value. NPD value differ to every aeroplane type. In this study is used the aeroplane CN 235 (M-35) type and ATR-42 (M-50) type.

The highest noise value when aeroplane rushes by at all KKOP areas is 74,7 dB for CN 235 and 75,0 dB for ATR 42. Noise value for aeroplane rush by at approach & departure (landing & take off) area only, when landing position in east and take off in west is 77,3 dB for CN 235 and 80,6. dB for ATR 42, while landing position in west and take off in east is 87,2 dB for CN 235 and 87,7 dB for ATR 42.

Keyword: predictions, single noise, noise value, NPD