**ABSTRACT** 

Palapa C2 Satellite has a function as communication repeater in satellite

communication system, orbited at 36.000 km of height and in the equatorial area

or geostationary orbit and lay in 112,95° E orbit. Considering its function and role

is very vital in telecommunication system, therefore, the maintenance of satellite

like position correction is needed, so that the satellite always remain to in its

coverage area and not out of the earth main station's monitoring.

In its circulation, Palapa C2 will not always stay at its orbit because of the

perturbation's effect. The gravitation of sun and moon cause the inclination of the

satellite orbit, while the earth's triaxiality cause the satellite shift to stable point.

Change of attitude and position of satellite in its circulation at the orbit needs an

act from the earth station so that the satellite will always stay at its right orbit.

This earth station's exertion is known as station keeping. Station keeping in the

form of satellite maneuver was done in every 14 days. Maneuver divides into

north/south and east/west maneuver. In each time maneuver needs fuel to activate

the thruster which is causing impellent to alter the satellite position.

At this Final Assignment, analysis the requirement fuel of Palapa C2

satellite for station keeping has been done. In each maneuver, satellite needs a

different fuel so maneuver period will effect to the requirement fuel. At this Final

Assignment, the requirement fuel was calculated and predicted using 14 days and

7 days period of maneuver. With doing the prediction and also based on the

difference of maneuver method, it's found that the use of 7 days maneuver

method will require less fuel compared by the 14 days method.

Keywords: Palapa C2, Propellant, Station Keeping

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