ABSTRACT

Inventory control policy in a company becomes an important thing. PT. EFG

is a company engaged in aircraft engine repair services. In the process of engine

repair operation, PT. EFG often experience delays of PT. EFG must pay a fine.

Cause of delay that is not available part replacement so have to wait for ordering.

To be able the availability of parts, PT. The EFG must have a policy of determining

the number of parts order for CT7 engine parts inventory so as to reduce the total

cost and increase the service level.

Based on the results of distribution test it is known that demand for repair

2015-2016 has poisson distribution. Then the method used in determining inventory

control policy is using power approximation approach.

The result of inventory policy using power approximation approach for each

part has a mean of 1 unit with 1 month interval review. The order is made if the

part that has reached the point of reorder point and the order amount does not

exceed the maximum inventory level.

By using approach of power approximation to do stock PT. EFG can increase

service level by 15% with total inventory cost savings of \$ 50,219.17 from \$

121,773.67.

Keyword

: Inventory Control Policy, Poisson, Power Aproximation, Service

Level

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