

COMPARISON ANALYSIS OF FUEL ON MANUAL AND SYSTEMATIC FLIGHT PLAN ON CITILINK AIRLINES ON THE JAKARTA-SURABAYA ROUTE USING AIRBUS A320 AIRCRAFT

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ABSTRACT: A Flight Plan is an essential element for achieving efficiency. Prior to operating a flight, a Flight Plan must be prepared. The flight operations officers (FOOs) utilize Airbus's NavBlue application to create a systematic Flight Plan. They can also manually generate a Flight Plan using the FCOM (Flight Crew Operating Manual) guidebook. This research focuses on the differences in fuel planning between the systematic and manual methods of Flight Plan creation, as there are variations between the two approaches. Qualitative methodology is used to gather and analyze secondary data, including both manual and systematic Flight Plans, weather and environmental data, as well as aircraft technical documents and fuel tank capacities. The anticipated outcome of this research is to provide valuable insights for the aviation industry in enhancing operational efficiency.

Keywords: Aviation, Flight Planning, FOO, FCOM, NavBlue

INTRODUCTION

Flight is a transportation activity that involves the use of aircraft for various purposes, such as passenger and cargo transportation, this statement is quoted in accordance with Law Number 1 of 2009. Flights always have something to do with planning a flight, just before the flight is operated, of course, there is a flight plan or in the aviation world commonly called *Flight Planning* (Altus,

2009). Pilots before carrying out the flight must know about the flight plan in order to understand everything written in the flight plan such as *weather package*, NOTAM (*Notice to Airmen*), MEL/CDL (*Minimum Equipment List/Configuration Deviation List*), *validity time*, flight number, aircraft registration, ETD/ETA (*Estimated Time Departure/Estimated Time Arrival*), route used, *Load Manifest*, Fuel Components,

Airbus Fuel Planning Manual

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