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Aviation Fleet Training Efficiency Metrics

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**NAVAL
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NAVAL RESEARCH PROGRAM

MONTEREY, CALIFORNIA

Aviation Fleet Training Efficiency Metrics

by

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GSBPP

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POC: LCDR James F. Griffin

Background

Purpose/Objectives: The objective of this analysis is to develop a fleet 'training efficiency' metric that links squadron fuel consumption to operational Training & Readiness (T&R) outcomes and pilot proficiency. The research questions are:

- How should the Navy quantify aviation training efficiency and measure operational T&R outcomes as a function of fuel consumed?
- How should the Navy allocate high value aviation training and readiness targets, while considering administrative activities such as transit to and from ranges and other administrative actions?
- How can the Navy leverage 'forward deployed' hot pits to reduce refueling transits?

The overall aim is two-fold: (1) the development of alternative metrics for T&R assessing both consumable assets (fuel) and enhancement of pilot proficiency and (2) assessment of hot pit locations in CONUS.

Process

Accomplishments: We have completed the literature review and completed all data collection. We have engaged seven thesis students to assist us with the project. We have completed the literature and data collect along with analysis for the potential aviation training efficiency metrics. Our analysis includes both fixed and rotary-wing communities. Data is from SHARP, ASKIT, NALCOMIS, AFAST, and ACES. We have completed the hot pit literature review and are progressing on the cost-benefit analysis regarding hot pit location in the CONUS.

Our data collection has identified a series of data limitation for the efficiency metrics that will be brought forward with our sponsor later this month.

Findings and Conclusions

We have none to report at this time but are progressing on our outcomes for the efficiency metrics. The hot pit analysis is incomplete, however is progressing in a timely fashion.

Recommendations

Not applicable at this point of the project.