Soldier Power Decision Support Tool

Samir Abdelkhalek, Austin Canara, Paul Evangelista, Kyle French, and Nathan Penick

Department of Systems Engineering

United States Military Academy

West Point, NY 10996

Corresponding author's Email: nathan.penick@usma.edu

Abstract: Today's individual Soldier equipment increasingly requires more power, directly increasing battery loads. Efficient power management decisions and smart employment of power management equipment will benefit Soldiers, small units, and the entire logistics chain. Small unit leaders and Soldiers stand to benefit from a decision support tool (DST) capable of considering mission requirements, estimating energy usage, determining small unit power equipment requirements, and determining charging needs. This research focuses on the development of a simple yet informative Android application based DST that integrates with the Nett Warrior System. This document summarizes a research approach, methodology, and proposed solution to address this need.

Keywords: Soldier Power, Decision Support Tools, Energy Requirements, Power Requirements, Soldier Literacy, NETT Warrior, Android Applications