EXPEDITIONARY DIRECT CURRENT POWER DISTRIBUTION (DCPD)

PROJECT OVERVIEW

DCPD provides an intuitive material solution that enables the Warfighter to distribute power between existing and future DC sources and loads with minimal required training. Just as the 3-prong NEMA power plug has become a recognizable interface for AC power, DCPD will standardize a power distribution architecture and connectors suitable for the majority of DC loads. DCPD consists of a power distribution box, cables, and standardized connectors that will allow compatibility with currently-fielded and emerging DC sources.

DCPD powering a mobile COC off of vehicle export power at an Initial Technology Insertion at Camp Lejeune

BENEFITS

DCPD reduces training, labor, and cognitive burden, enables a lighter and more agile force, and increases reliability by simplifying the means of powering DC-based equipment. DCPD provides a means of distributing power from current and emerging capabilities and helps enable MDO and EABO. Initial DCPD prototypes have been tested at a variety of events and vendor produced prototypes have gone through validation at NSWC Carderock and ATC.

PATH FORWARD

Vendor articles completed testing at NSWC Carderock and are continuing to be evaluated by field users. DCPD is transitioning to a Program of Record in November 2023 and will be fielded in April of 2024 with an AAO of 2531 systems.

DoD Executive Agent

Office of the Assistant Secretary of the Army for Installations, Energy, and Environment

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FOR FURTHER INFORMATION

National Defense Center for Energy and Environment (NDCEE)
http://www.denix.osd.mil/ndcee/home

Naval Surface Warfare Center Carderock Division (NSWCCD)
https://www.navsea.navy.mil/Home/Warfare-Centers/NSWC-Carderock/