

PREPRODUCTION INITIATIVE-NELP SUPER FLIGHT LINE ELECTRICAL DISTRIBUTION SYSTEM GENERAL DESCRIPTION

P2 Opportunity: Reduce emissions created by diesel engine-driven support equipment (SE) by replacing the existing engine-driven power supplies with host facility power and redistributing the conditioned power along the flight line. Reduce hazardous waste due to maintenance on flight line SE by reducing the quantity of required equipment to service aircraft.

Equipment Description: The Super Flight Line Electrical Distribution System (SFLEDS) converts and conditions 480V, 60 Hz host facility grid power to 120V, 60 Hz output for low voltage equipment and 115V, 400 Hz output for aircraft while still allowing outputs of 480V, 60 Hz for heavy-duty equipment.

Implementation Requirements:

- Routing of the 480V, 60 Hz power cable from the host facility grid to the SFLEDS site
- Electric: 480V, 60 Hz input power and power cable connection at the input of the SFLEDS unit

Benefits:

- Eliminate hydrocarbon and carbon monoxide emissions.
- Reduce hazardous and flammable materials on the flight line.
- Reduce hazardous waste due to maintenance of SE.

Other Information: None

Procuring Activity Manager:

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Vendor(s):

Custom Turnkey System: **Unitron, Inc.**

Model:
GFC-90M/PFC-300

FY/Site(s):

1995 NELP Initiative, NAS North Island

Cost:

\$305,223 (electrical equipment)
\$7,570 (aluminum ramps and boxes)
\$47,445 (installation and training services)