

“U.S. Army RDECOM/TARDEC Fuel Cell Overview”

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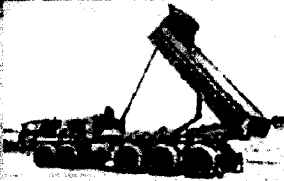
DUAL NEEDS FOCUS



COLLABORATIVE
ENVIRONMENT

COOPERATIVE AGREEMENTS

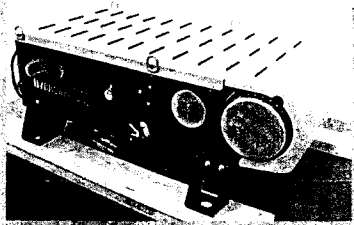
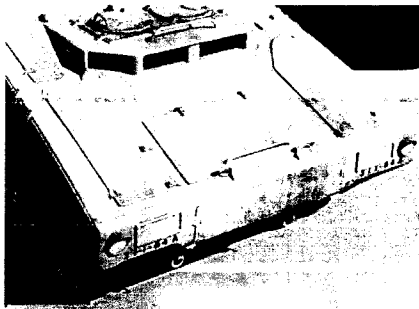
COMMON OPERATIONAL



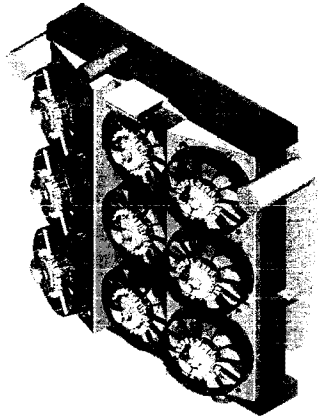
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Fuel Cell Integrated with Diesel Engine



20 Kilowatt
Fuel Cell APU

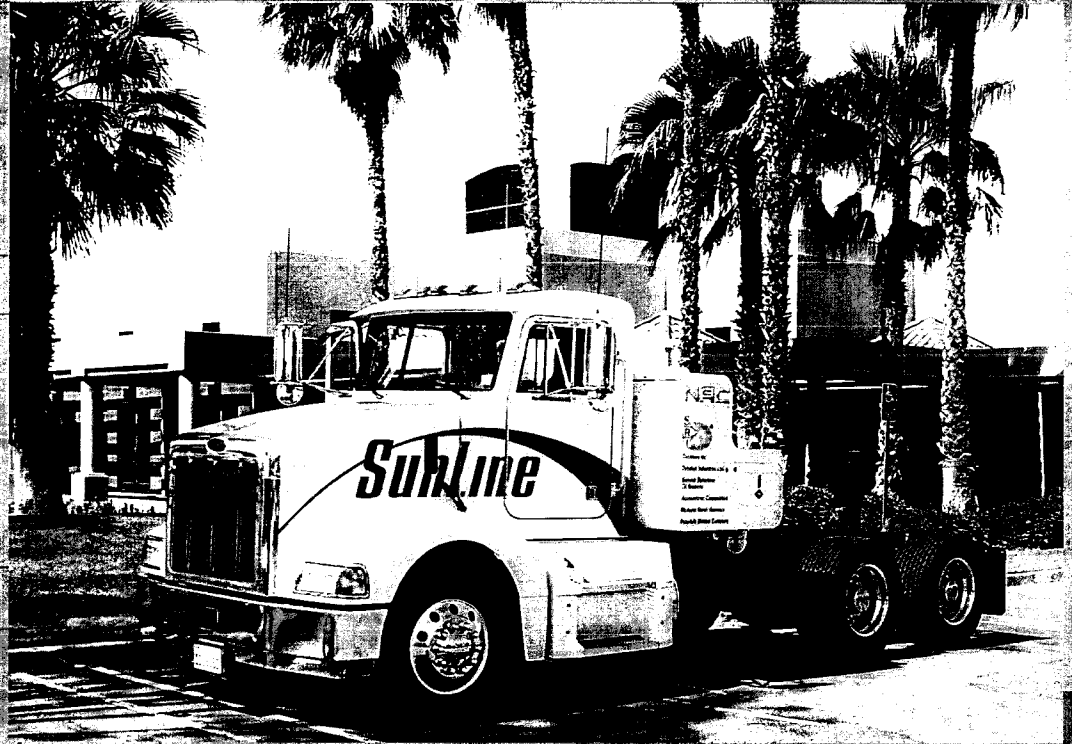
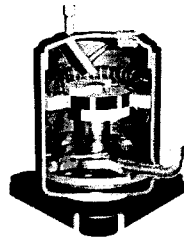


Electric
Radiator Fans

Electric
Coolant Pump



Electric
air
conditioning
pump



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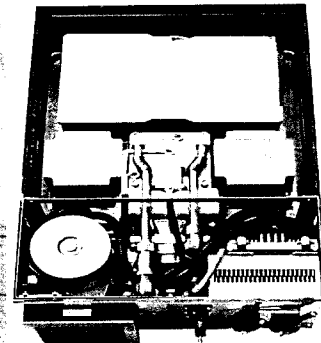
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Auxiliary Power Unit Programs

SunLine with Southwest Research

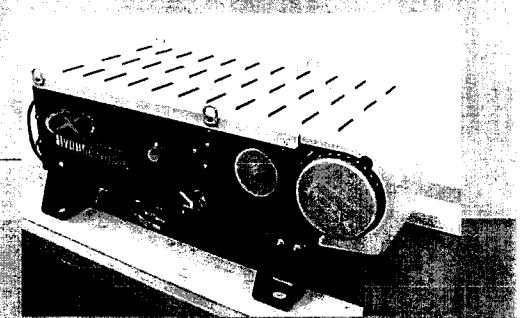


Peterbilt test bed tractor

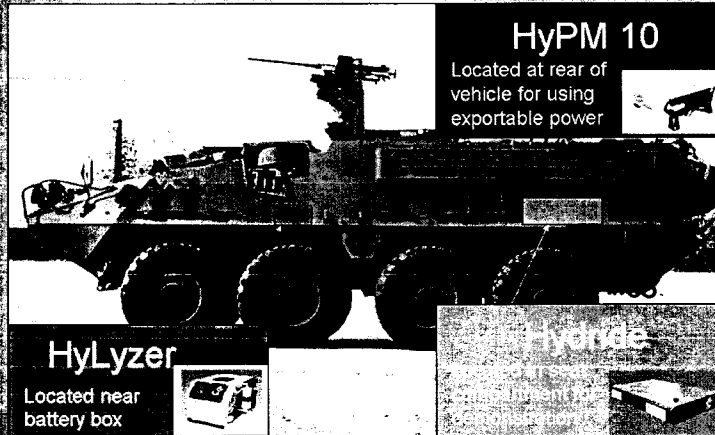


Delphi 5 kW SOFC APU

Ballard / Freightliner/
University of Alabama



10 kW PEM APU



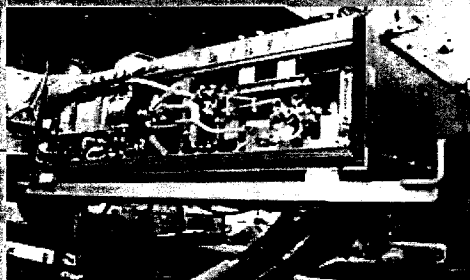
HyPM 10

Located at rear of vehicle for using exportable power

HyLyzer

Located near battery box

Hydise



Methanol fueled APU mounted on a class 8 truck test platform

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GM T-800 Truck at Ft. Belvoir



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Fuel Cell Strategy Summary

Emphasis on inter-service, inter-agency cooperation and coordination

Fuel cell auxiliary power units (APU)

Reforming of JP-8 (jet fuel) single battlefield fuel

Demonstrate commercial fuel cell vehicles on military bases

Leverage industry to move fuel cells from civilian uses to military vehicles

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