

## **Integrated Fight-Through Power (IFTP) Integrated Power System (IPS)**

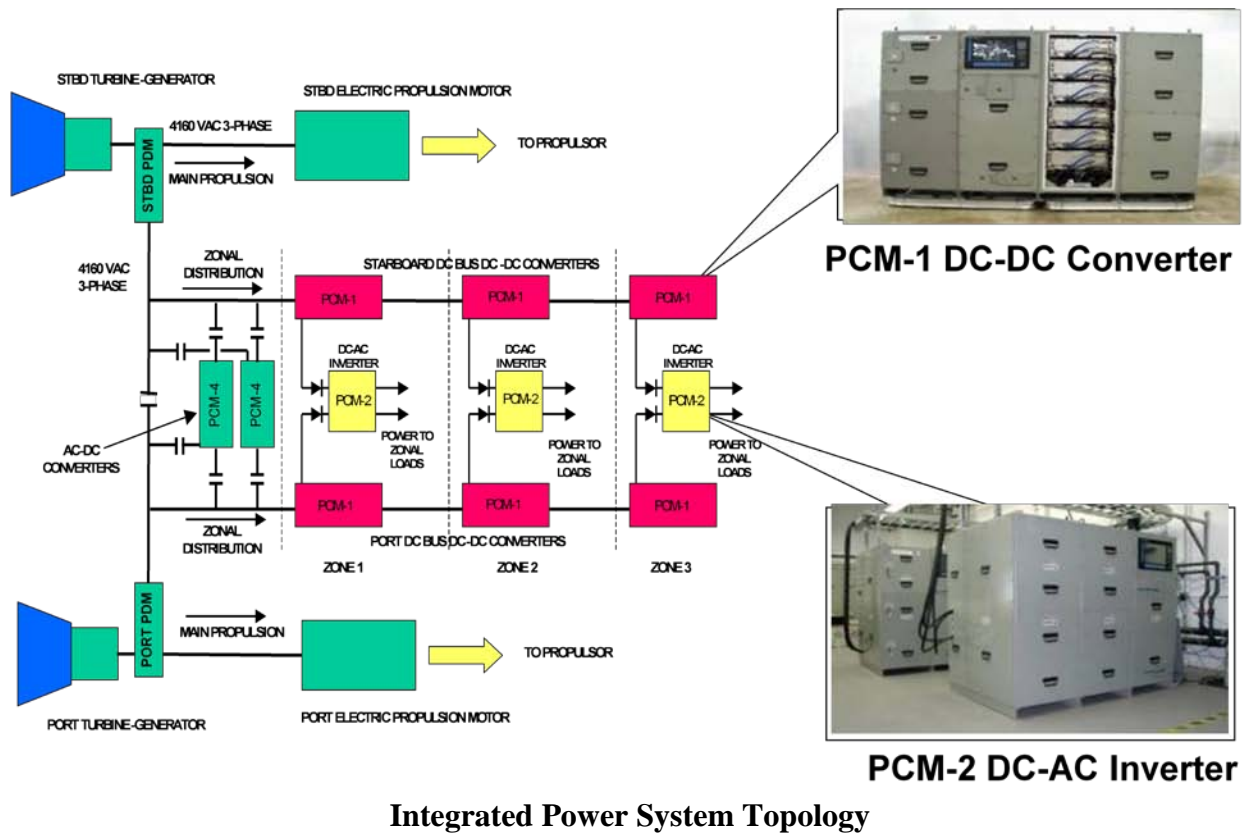
RCT Systems is closely involved with all Next Generation Integrated Power System (NGIPS) activities concerning electric ship requirements. RCT Systems designed, developed, manufactured, and tested Power Conversion Modules (PCM-1s and PCM-2s) that are currently installed in Philadelphia at the Navy's Land Based Test Site (LBTS). RCT Systems was responsible for the complete design and manufacture of these modules from initial concept design through LBTS testing, as a part of the General Atomics team.



**RCT Systems PCMs installed at Navy LBTS**



**RCT Systems PCMs Installed for Test at the General Atomics Test Site**



**Integrated Power System Topology**

During this program, RCT Systems developed, manufactured and tested four 750-kW-rated DC/DC PCM-1s, three 500-kW-rated DC/AC PCM-2s, and all associated computer-based integrated controls. RCT Systems supported the prime contractor in performing the complete system acceptance test at full power on site at their test lab and, subsequently, at LBTS Naval Surface Warfare Center, Carderock Division (NSWCCD). All modules met or exceeded the Navy performance specification requirements, and all detailed design drawings, specifications, and reports met or exceeded the Navy quality standards.