



HELILYNX
HELICOPTERS

355FX ELECTRICAL

ELECTRICAL SYSTEM REDESIGN...

THE 355FX DESIGN INCLUDES INSTALLATION OF NEW GENERATOR CONTROL UNITS, A NEW MAIN BUS ELECTRICAL CIRCUIT WITH THREE PRINCIPAL DISTRIBUTION BUSESSE AND AN ISOLATABLE ESSENTIAL BUS TO POWER CRITICAL SYSTEMS IN THE EVENT OF A FAILURE OF THE MAIN ELECTRICAL SYSTEM. THE ELECTRICAL SYSTEM IS FED BY TWO ENGINE-DRIVEN STARTER-GENERATORS, EACH OF WHICH IS CAPABLE OF SUPPLYING 100% OF THE ROTORCRAFT'S NORMAL ELECTRICAL DC LOAD. IN NORMAL OPERATION, THE PRIMARY BUSES ARE INTERCONNECTED. IN ABNORMAL CONDITIONS, THE PILOT CAN ISOLATE EACH BUS; SHEDDING LOAD AS REQUIRED. ESSENTIAL LOADS CAN ALSO BE FED FROM THE BATTERY BUS ALONE. THE ORIGINAL ELECTRICAL SYSTEM FUSES ARE REPLACED BY CIRCUIT BREAKERS, WITH ONLY ESSENTIAL CIRCUIT BREAKERS ACCESSIBLE IN THE COCKPIT. THE REMAINING CIRCUIT BREAKERS ARE PLACED ON A NEW PANEL IN THE AFT BAGGAGE COMPARTMENT.

A DEDICATED AVIONICS BUS FED FROM THE MAIN HIGH POWER BUS AND AN AVIONICS CIRCUIT BREAKER PANEL IS LOCATED IN THE COCKPIT IN THE INSTRUMENT PANEL SUPPORT STRUCTURE.

POWER GENERATION SYSTEM FUNCTIONAL DIAGRAM...

