



HELILYNX
HELICOPTERS

350FX ELECTRICAL

ELECTRICAL SYSTEM REDESIGN...

THE 350FX DESIGN INCLUDES INSTALLATION OF A NEW GENERATOR CONTROL UNIT, A NEW MAIN BUS ELECTRICAL CIRCUIT WITH THREE PRINCIPAL DISTRIBUTION BUSESSES 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 ONE ENGINE-DRIVEN 150 AMP STARTER-GENERATOR WHICH IS CAPABLE OF SUPPLYING THE ROTORCRAFT'S NORMAL ELECTRICAL DC LOAD. 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. DURING NORMAL OPERATION, THE BATTERY IS CONNECTED TO THE HIGH POWER BUS FOR BATTERY CHARGING. ALTERNATIVELY, THE BATTERY CAN FEED THE HIGH POWER BUS AND THE DISTRIBUTION BUSESSES IF THE GENERATOR IS NOT OPERATING, OR JUST THE NEW ESSENTIAL BUS IF BATTERY POWER NEEDS TO BE CONSERVED.

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...

