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Maintenance

**NICKEL - CADMIUM BATTERIES AND
BATTERY CONTROL**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction tailors procedures for the usage and care of nickel-cadmium batteries and daily use of aircraft batteries to minimize abuse. It applies to all 301st Fighter Wing maintenance personnel. It implements TOs 8D2-3-1, 8D2-3-12, and 1F-16C-24JG-00-1.

1. General. To prevent thermal run-away and to ensure the required life span and 60-day capacity of the nickel-cadmium batteries on the F-16 aircraft, maintenance personnel will adhere to the following procedures.

- 1.1. Aircraft nickel-cadmium (ni-cad) batteries will be capacity tested in according to TO 8D2-3-12 every 60 days. If the 60-day limit expires, a red X symbol will be placed in the aircraft forms.
- 1.2. All batteries removed from the aircraft will be routed to the Electrical Environmental Section for storage and/or service.
- 1.3. No attempt will be made to adjust the electrolyte or to recharge a weak discharged battery by external means while it is installed in the aircraft.
- 1.4. Do not allow main power switch to remain in BATT or MAIN PWR position for more than 5 minutes without external power or depletion of battery will result.
- 1.5. External power must be applied daily for 30 minutes minimum, to prevent depletion of aircraft battery.
- 1.6. Operation of aircraft canopy will be kept to a minimum to prevent depletion of aircraft batteries.

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