

## INFORMATION PAPER

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#### C-130E/H2 AN/APN-241 LOW POWER COLOR RADAR

**1. Background.** The APN-59 radar currently installed on C-130E/H aircraft is suffering from deteriorating reliability, maintainability, and sustainability (RM&S). The current MTBF is 50 hours for the APN-59, while the AN/APN-241 installed on the C-130H2.5/H3 is demonstrating up to 1,300 hours MTBF. The AN/APN-241 has the flight safety-enhancing capability of wind shear prediction and is certified for all-weather precision airdrop, a critical shortfall in current fielded mission capability. The ANG currently has a funded program delivering AN/APN -241 radars to AK, NV, NY, TN, and MO Air National Guard units.

**2. Requirement.** Mission Need Statement AMC/CAF/AETC/AFSOC/AFMC 301-97. This requirement is incorporated in the C-130 Avionics Modernization Program System Requirement Document, dated 31 March 2000. This early installation of the APN-241 is an “AMP-enabling” modification approved by HQ AMC and Warner Robbins ALC/LBR.

**3. Impact If Not Funded.** Operational mission effectiveness will continue to deteriorate. The C-130 AMP Program deliveries are anticipated to begin in early 2008. This will result in less than continuous orders, which will necessitate closing the production line.

**4. Units Impacted.**

124 WG Boise, ID	154 WG Hickam AFB, HI	166 AW Wilmington, DE
127 WG Selfridge ANGB, MI	156 AW San Juan IAP, PR	182 AW Peoria, IL
136 AW Carswell JRB, TX	165 AW Savannah IAP, GA	189 AW Little Rock AFB, AR
137 AW Oklahoma City, OK	118 AW Nashville, TN	129 RQW Moffet, CA
130 AW Charleston, WV	139 AW St. Joseph APT, MO	143 AW Channel Is, CA
152 AW San Juan, IAP, PR		

**5. Contractors.** Northrop Grumman Corporation; Electronic Sensors and Systems Sector; Linthicum, MD

**6. Cost.**

Units Required	Unit Cost	Program Cost
24**	\$943K	\$22,632,000*

\* Includes required spares, support equipment, and technical orders

\*\* Total units required will equip entire ANG C-130E/H2 fleet