

INFORMATION PAPER

ON

ANG F-16 BLOCK 42 F-100-PW-229 RE-ENGINE

1. Background. ANG Block 42 F-16 aircraft are currently equipped with Pratt & Whitney F100-PW-220 engines (25,000 lbs thrust). Block 42 aircraft, similar to Block 40 (F-110-GE-100; 28,000 lbs thrust) F-16 aircraft, were specifically designed to accomplish the Low Altitude Navigation and Targeting Infrared for Night (LANTIRN) mission. However, current Block 42 engine thrust and performance limitations have resulted in ANG pilots performing combat operations at increased risk. Equipping these aircraft with more powerful F100-PW-229 engines (29,100 lbs thrust) enables the Block 42 F-16 to effectively perform any assigned mission while providing combat pilots a comparable level of performance to the Block 40 F-16. At program inception, a total of 63 PW-229 engines (including spares) were required to upgrade the entire Block 42 fleet. Since that time, the following procurements have been made: FY01 - nine (9) engines/ modifications, FY02 - six (6), FY03 - two (2), and in FY04 four (4) engines were procured. At the conclusion of FY04, a total of 21 engines were procured. The FY05 budget appropriated \$21 million for procurement of four (4) additional engines. Re-engining Block 42 aircraft to increase the combat capability of our F-16 fleet continues to be a high ANG priority.

2. Requirement. TAF 303-76-I/II/III-A (revision 1) SORD for F-16C/D Block 40/42, LANTIRN TDE Report (422 TES, 1990, Classified)

3. Impacts If Not Funded. Block 42 pilots continue to fly AEF-tasked missions at higher risk. These severely under-powered, less capable engines directly impact pilot power-to-thrust ratios when engaging in combat scenarios and during critical phases of flight--especially when flying combat loads at lower altitudes. Decreased combat capability of existing engines negatively impacts mission.

4. Units Impacted.

132 FW, Des Moines IAP, IA; 138 FW, Tulsa IAP, OK; 180 FW, Toledo APT, OH

5. Contractor. Pratt & Whitney (United Technologies), East Hartford, CT

6. Cost.

| Units Required | Unit Cost | Funding Required |
|----------------|-------------|------------------|
| 38* | \$4,700,000 | \$178,600,000 |

* Includes 12 engine spares, support equipment, warranties and installation kits