



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
AVIATION APPLIED TECHNOLOGY DIRECTORATE
US ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND
FORT EUSTIS, VIRGINIA 23604-5577

AMSRD-AMR-AA

1 May 2008

MEMORANDUM FOR: Chief, Platform Technology Division, ATTN: (b) (6)

SUBJECT: Flight Release for A160T Flight Operations at Naval Air Engineering Support Lakehurst, NJ.

1. References:

- a. AATD Memo 70-20, 30 Mar 05, *Airworthiness Flight Release Process for Aircraft Systems*.
- b. Boeing Document AUS08D0276, A160T Unmanned Aerial System (UAS) Airworthiness Substantiation Documentation, dated 17 April 2008
- c. Boeing A160T, Operator Training Syllabus, dated 1 May 2008
- d. Operator's Checklist, A160T, Version 1.1, dated 27 March 2008.
- e. A160T A012 Test Plan, Lakehurst Flight Exercises, Support of C4ISR OTM E08, dated 28 April 2008
- f. FAA Memorandum, "Federal Aviation Administration (FAA) Certificate of Authorization (COA) for A160 Unmanned Aircraft System (UAS) in the National Airspace System (NAS) outside of restricted/warning area airspace", COA 2008-WSA-7.

2. This memorandum constitutes a Flight Release in accordance with (IAW) Reference 1a for the purpose of authorization to conduct ground and flight EMC, test emergency procedures to include lost link and lost communications, and to conduct flight operations in support of the C4ISR OTM E08 within Class D airspace at Naval Air Engineering Station (NAES) Lakehurst, New Jersey, KNEL. The A160T has not been proven to be airworthy to manned vehicle standards. However, the processes outlined in reference 1a were used to ensure safe operation of the A160T within instructions and limitations identified in this document. This flight release allows flight operation of the vehicle within a specific area where radio communication-line-of-sight has been assessed and strict controls are applied for safe operation with personnel nearby. Strict controls for safe operation include stand off ranges, ground observers, dual redundant communication links and a lost link emergency procedure. In addition, this airworthiness release is contingent on successful demonstration of the requirements detailed in paragraph 5d below. Failure to meet the requirements of paragraph 5d will terminate the validity of this airworthiness release.