




10 Oct 2008

MEMORANDUM FOR DR. HENRY HUEY, MILCOM VENTURE PARTNERS, US
ARMY COMMERCIALIZATION PILOT PROGRAM

SUBJECT: Letter of Endorsement for US Army SBIR Program Commercialization
Pilot Program Candidate - Adaptive Bandwidth High Power RF Antenna,
Two Nested Plasma Antennas and Two Stacked Plasma Antenna Arrays at
VHF/UHF and HF/VHF, Haleakala Research and Development, Inc.

1. The Plasma Antennas and Arrays are electrically steerable antenna systems capable of scanning 360°, locating and opening a window through which to radiate or receive in that direction, and continue the scanning operation simultaneously. This antenna system has inherent stealth capabilities, and is highly configurable, creating the possibility for insertion into, and enhancement of the capabilities, of many applications.
2. Haleakala Research and Development, Inc. has designed and developed a fully operational prototype/demonstration unit including plasma tube structure, radiator and control components.
3. This work was performed under the US Army SBIR Program in response to the FY04 SBIR Topic A04-005, "Adaptive Bandwidth High Power RF Antenna," generated by the Advanced Energy Armaments Systems Division at Picatinny Arsenal as a technology base design and development effort. Resultant technology would be an enabling factor in future directed energy weapon systems, including but not limited to, less than lethal counter personnel systems, improvised explosive device detection and neutralization, and enhanced communications capabilities (through CECOM).
4. This office would like to add its endorsement to this Phase II effort currently under consideration for selection as a US Army SBIR Program Commercialization Pilot Program Project.


ROBIN GULLIFER
Deputy PM IEDD/PF
PM Close Combat Systems
PEO Ammunition