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Nuclear-Weapon-Carrying Capability Added to Air-Spacecraft of the Third Millennium Traveling on the Hyperbolic Trajectory, Military Version (ASTM 786-H-M)

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Abstract – *Air-Spacecraft of the Third Millennium* traveling on the hyperbolic trajectory, military version (ASTM 786-H-M) is launched in VTOHL (Vertical-Takeoff and Hovercraft-Landing) mode and then put into the hyperbolic trajectory using the extended-Q system, accomplishing vanishing of the down-range/the cross-range errors. ASTM 786-H-M lands in the hovercraft mode (suspended above the ground, allowing passengers and cargo to be downloaded through ropes and chains), permitting the landing possible on marsh (soft muddy) landscape as well as in thick forests (wet landscape) and deserts (soft sand reserves). Other benefits include, practically, no upper limit on velocity (exception is the limit imposed by special theory of relativity), prevention from EMP attacks and GPS-signal blocking/blinding by using INS (Inertial-Navigation System instead of GPS), combined with stellar (celestial) navigation, as well as the stealth (reduced time-of-flight in the boost phase and then travel on the ballistic trajectory beyond the reach of radars — engine operting for a very short time in the boost phase and no engine IR signature available in the ballistic phase, imroving the stealth cabability) and the hybrid modes (flown by a pilot during normal operations, but switches to the pilotless mode, if the pilot becomes unconscious, severely injured or killed during flight operations — ASTM 786-H-M is programmed to return to point-of-launch, flying by computers and instruments, only); crew communicate among themselves through secure-encrypted messages employing cipher code. This paper adds dual capability (coventional as well as nuclear), which include tactical nuclear weapons (mini-nukes), neutron bombs, fission bombs (atomic bombs) and, ultimately, fusion bombs (hydrogen bombs) to ASTM 786-H-M. This capability should bring ASTM 786-H-M at par with F-35B or even better.

Video-Recorded Presentation • Program (page 6, 6th entry) • Certificate of Participation • Abstract Booklet • Full Text

Keywords – Dual capability, Extended-Q system, Hyperbolic-astrodynamical-coördinate mesh, Normal-component-cross-product steering, Normal-component-dot-product steering, Tactical nuclear weapons, Two-body problem

ASTM (786-E) • ASTM (786-H) • INS-based Navig. for ASTM • Cipher Code for Secure-Encrypted Comm. • SDI

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