Code 00
10 July 1973

From: Commanding Officer, Naval Aerospace and Regional Medical Center, Pensacola, Florida 32512
To: The Secretary of the Navy (ASN-R&D)
Via: (1) Chief, Bureau of Medicine and Surgery
(2) Chief of Naval Personnel
(3) Chief of Naval Operations

Subj: Permission to Utilize Human Volunteers in Acceleration/Deceleration Experiments; request for

Ref: (a) Manual of the Medical Department, U. S. Navy
(b) SECNAV Instruction 3900.39 of 28 April 1969
(c) CO NAMI ltr Code 3-0 to Secretary of the Navy dtd 5 Sep 1967
(d) SECNAV ltr SER 69 to CO, NAMI, dtd 24 Nov 1967
(e) NAMRL ltr Code L6/tbb of 19 Jan 1973
(f) BUMED ltr BUMED 7113; 1090 of 16 Feb 1973

Encl: (1) Information brochure for prospective volunteers in the Impact Injury Prevention Program
(2) Consent Form for Prospective Volunteers in the Impact Injury Prevention R&D Program
(3) Experimental Plan
(4) Staff Curricula Vitae

1. Permission to use human volunteers in acceleration/deceleration experiments in accordance with reference (a) and reference (b) was previously requested in reference (c), for a joint Army-Navy medical research program, work unit MR005.04-0085 (now M4312.01-5001BEIJ). Approval was granted by reference (d).

2. As a result, 236 human exposures to impact acceleration were conducted under the work unit without injury to the Army and Navy volunteers. The data collected are being used at present by Army, Navy, NASA, the Department of Transportation and industrial engineers to improve vehicular occupant protective system design.

3. The magnitude of the problem of aviation impact injury and the success of the experimental procedure developed and applied under the work unit has led to the promulgation of ADO 43-12X (Air Crew Impact Injury Prevention) which requires further exposures of human volunteers to impact acceleration. The data to be collected in these experiments is the very fundamental measure of the engineering characteristics of the living human body and, if properly collected, will be valid until the human race changes. The

data are those required to design and validate human protective systems against crash injury. There is no substitute for these data, and there is no other known program in the entire world which is designed to collect them.

4. Renewal of the permission to use human volunteers was previously requested by reference (e) but returned for further elaboration by reference (f). Permission to use volunteers for the experiments detailed in enclosure (3) is hereby requested.

5. The person directly responsible is Captain Channing L. EWING, MC, USN, Principal Investigator and Program Director. Subject monitoring will be performed under his supervision by Dr. D. J. Thomas, LCDR P. MAJEWSKI, MC, USN, and other assigned medical officers.

6. The prospective subjects will be fully informed of all hazards, by discussion and demonstration and by reading enclosure (1); are required to give written consent to volunteer by signing enclosure (2); may leave the study at any time; and will be permitted to sign enclosure (2) only after a rigorous physical and mental examination by a physician to discover any defects that may constitute an excess risk. A fully qualified and informed physician will be present prior to, during and after all experimental runs. Pre- and post-run physical examinations will be conducted by physicians in every case on every run. These and other provisions of reference (b) have been and will be followed, in addition to the provisions of the Declaration of Helsinki and AMA Ethical Guidelines for Clinical Investigation.

7. The experimental team consists of some of the most carefully selected experienced persons in the United States in applying impact acceleration to human volunteers. Staff curricula vitae are enclosure (4).

OSCAR GRAY, JR.