

MAR 7 - 1973

OP-098E/lec

Ser 098/22

NAVY DEPARTMENT

FOURTH ENDORSEMENT on NAVAIRDEVGEN ltr Ser 4031 of 10 Nov 1972

71-3824

From: Chief of Naval Operations  
To: Secretary of the Navy (ASN(R&D))

Subj: Permission for the use of human subjects to evaluate automobile occupant restraint systems; request for

Ref: (a) SECNAVINST 3900.39 of 28 Apr 1969

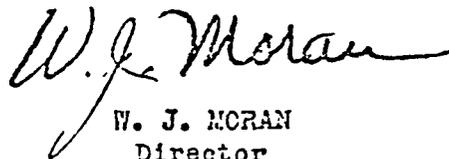
1. Forwarded, recommending approval of the use of human volunteers, commencing upon receipt of such approval, to evaluate various automobile occupant restraint systems utilizing a horizontal linear acceleration sled.

2. The proposed program involves exposure of human volunteer subjects to controlled linear acceleration force profiles safely within established human tolerance limits. The subjects are all experienced and have been exposed previously to impact-type accelerations on the horizontal accelerator to be used in these tests. This program is part of an on-going contractual effort between the Naval Air Development Center and the Department of Transportation and these tests are required to enable the Department of Transportation to approve automobile occupant restraint system designs. The development of more effective restraint systems for automobile occupants will be of direct benefit to Navy personnel and their dependents and the technology developed is directly transferable to personnel protection and safety engineering design considerations for military aircraft.

3. The basic correspondence, with endorsements, has been carefully reviewed. The Chief of Naval Material has recommended approval. The Chief, Bureau of Medicine and Surgery has also recommended approval and commented that the risk to the health of these volunteers is acceptably low and that the protocol for obtaining informed consent, as well as the medical supervision, support and safeguards planned are considered to be adequate. The requirement to obtain the data which this project will yield is further strongly endorsed; however, the comments of the Chief, Bureau of Medicine and Surgery concerning the applicability of these data to validation of anthropometric dummy biodynamics and/or mathematical models are also endorsed by the Chief of Naval Operations. The Chief of Naval Personnel has recommended approval of the utilization of active duty personnel in existing billets for voluntary duty as experimental subjects in this program.

4. The Commander, Naval Air Development Center is directed by this endorsement to meet all the requirements imposed by reference (a).

5. A letter of implementation has been prepared and your signature is recommended.



W. J. MORAN  
Director

Research, Development, Test & Evaluation

Copy to:

NAVAIRDE CEN

CHNAVMAT (MAT 034B)

→ Chief, BUMED (Codes 71, 7113)

Chief, NAVPERS (PERS A22a)

ONR (Codes 107,440)