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CONFIDENTIAL

No. 273

U.M.	Bill
17 FEB 1959	
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The Embassy of the United States of America presents its compliments to the Ministry of Foreign Affairs and has the honor to refer to the Ministry's Note Verbale of June 21, 1958 (P.J.V.-105.F.9.a), which granted permission for the United States Department of Defense to conduct certain scientific research programs in specified areas of Greenland during the year 1958.

On instructions, the Embassy now has the honor to request the approval of the Government of Denmark for continuation of these research and development activities during the calendar year 1959. The areas for which clearance is desired are shown on the map enclosed herewith. It will be noted that the areas plotted on the map are largely similar to, although somewhat less extensive, than the areas for which approval was granted last year.

Danish participation in the proposed research and development program is invited and encouraged, and studies deriving from the various programs would be made available to the Danish Government, as in the past. It is hoped that Danish personnel will be able to participate in these proposed programs, and in such case arrangements for their housing, field messing and limited post-exchange privileges would be made by the Department of the Army. Transportation to and from Greenland, and messing while at Thule should be without cost to the United States Government, however.

The proposed

The proposed program would be conducted by the Department of the Army and would have the purpose of developing engineering methods and techniques to construct structures on the Greenland Icecap, including roads, camps, and other military facilities under the conditions of terrain and weather encountered in arctic regions. The program would also include research and development in over-snow movement, clothing and equipment, collection and evaluation of meteorological data, and the testing of engineer, ordnance, and transportation corps vehicles and equipment. In addition, there would be basic research in the physical properties of snow, ice, and frozen ground.

The following paragraphs delineate the six areas by geodesic position, and list the scientific activities contemplated for each area:

a. Area I: Bounded by $77^{\circ}30'N$ $76^{\circ}00'W$, $81^{\circ}50'N$ $60^{\circ}45'W$, $83^{\circ}30'N$ $40^{\circ}00'W$, $83^{\circ}40'N$ $26^{\circ}00'W$, $81^{\circ}45'N$ $10^{\circ}45'W$ / $81^{\circ}20'N$ $48^{\circ}00'W$. It is desired to carry out the following activities in this area from February through December 1959:

- (1) Development of access routes to the Icecap.
- (2) Gathering meteorological, geological, and glaciological data.
- (3) The testing of over-snow transportation techniques and equipment.
- (4) Aerial reconnaissance and aerial photographic studies.

b. Area II: Bounded by $77^{\circ}30'N$ $76^{\circ}00'W$, $81^{\circ}20'N$ $48^{\circ}00'W$, $79^{\circ}45'N$ $48^{\circ}00'W$, $76^{\circ}40'N$ $71^{\circ}00'W$. It is desired to carry out the following activities in this area from February through December 1959:

- (1) Testing of over-snow transportation techniques and equipment.

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- (1) Testing of over-snow transportation techniques and equipment.
- (2) Gathering of meteorological, geological, and glaciological data.
- (3) Aerial reconnaissance and aerial photographic studies.

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c. Area III: Bounded by $76^{\circ}40'N$ $71^{\circ}00'W$, $79^{\circ}45'N$ $48^{\circ}00'W$, $80^{\circ}40'N$ $29^{\circ}25'W$, $79^{\circ}02'N$ $18^{\circ}30'W$, $78^{\circ}27'N$ $44^{\circ}40'W$, $75^{\circ}30'N$ $66^{\circ}00'W$.

It is desired to carry out the following activities in this area from February through December 1959:

- (1) Construction of a sub-surface camp to test engineering techniques and methods.
- (2) Testing of engineer and transportation corps equipment and techniques.
- (3) Gathering of glaciological, geological, and meteorological data.
- (4) Aerial photographic and aerial reconnaissance studies.
- (5) Development of methods and techniques for compacted snow runways and roads.
- (6) Basic research in the physical properties of snow and ice.
- (7) Development of methods and techniques for the use of snow and ice as a structural material.
- (8) Continuation of thermal regime and heat balance studies.
- (9) Development of techniques and methods for providing sanitation and water supply facilities on the Greenland Icecap.

d. Area IV: Bounded by $76^{\circ}37'N$ $60^{\circ}00'W$, $78^{\circ}27'N$ $44^{\circ}40'W$, $72^{\circ}19'N$ $37^{\circ}30'W$, $71^{\circ}26'N$ $47^{\circ}46'W$. It is desired to carry out the following activities in this area from February through December 1959:

- (1) Testing of engineer and transportation corps methods, techniques and over-snow equipment.
- (2) Gathering of meteorological, geological, and glaciological data.
- (3) Aerial reconnaissance and aerial photographic studies.

e. Area V: Bounded by $71^{\circ}00'N$ $55^{\circ}00'W$, $71^{\circ}26'N$ $47^{\circ}46'W$, $72^{\circ}19'N$ $37^{\circ}30'W$, $72^{\circ}17'N$ $36^{\circ}48'W$, $67^{\circ}32'N$ $34^{\circ}35'W$, $67^{\circ}30'N$ $40^{\circ}00'W$, $66^{\circ}57'N$ $47^{\circ}00'W$, $66^{\circ}10'N$ $53^{\circ}30'W$. It is desired to carry out the following

activities

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in this area from February through December 1959:

- (1) Gathering of meteorological, geological, and glaciological data.
- (2) Access route studies.
- (3) Aerial reconnaissance and aerial photographic studies.
- (4) Icecap neve (i.e., granular snow) studies and surveys.

f. Area VI: Bounded by $66^{\circ}57'N$ $47^{\circ}00'W$, $67^{\circ}31'N$ $40^{\circ}00'W$, $59^{\circ}30'N$ $43^{\circ}00'W$, $60^{\circ}40'N$ $18^{\circ}30'W$. It is desired to carry out the following activities in this area from February through December 1959:

- (1) Gathering of meteorological, geological, and glaciological data.
- (2) Access route studies.
- (3) Aerial reconnaissance and aerial photographic studies.
- (4) Icecap neve studies and surveys.

Enclosure:

Map of Greenland.

Embassy of the United States of America,

Copenhagen, February 16, 1959.

A. J.