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Major General Percy Clarkson  
Commander  
Joint Task Force 132  
Washington 25, D. C.  
Dear General Clarkson:

The purpose of this letter is to define more exactly the aims and procedures for the world-wide fallout monitoring program for IVY and to clarify the need for our request in the accompanying letter.

The purposes of the program are as follows:

1. To enable Task Force 132 and the U. S. Atomic Energy Commission to respond quantitatively to legitimate concerning the deposition of radioactive debris in
  - a. Continental United States
  - b. Pacific Islands beyond the cognizance of the Task Force (particularly those in the annulus 500-1000 miles from Eniwetok).
  - c. Other locations in the world where it will be possible to establish stations through the cooperation of the U. S. Weather Bureau, the U. S. Air Force, and the U. S. Department of State.
2. To extend our knowledge of the fate of radioactive debris from a nuclear detonation.
3. To define the area of maximum fallout in order that positive information with respect to potential hazards from Operation IVY can be suitably documented.
4. Although not a primary purpose of this undertaking, the data obtained will be of great help to the U. S. Weather Bureau in advancing their knowledge of planetary air movements.

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General Clarkson

**SECURITY INFORMATION**

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In general the program will be administered along the following lines:

The basic network, as proposed, consists of 96 stations located at facilities operated by the U. S. Weather Bureau, the Air Force and the U. S. Department of State.

Each of these stations will collect duplicate fallout samples using the gummed paper technique. Collectors would be changed every 24 hours and the samples forwarded to New York for radiometric evaluation. Collections would begin towards the middle of October and continue for an indefinite period beyond the second IVI detonation, the exact length of time to depend on the findings.

Within this network there will be approximately a dozen air sampling stations divided equally between Continental United States and the Pacific Islands in the annulus 500-1000 miles from Eniwetok (the exact location of the Pacific stations will be decided at a later date.)

In order to obtain information on fallout at the localities immediately beneath the cloud trajectories, the network of fixed monitoring stations will be augmented by mobile units based as follows:

HONOLULU:

It is proposed that a member of the Health and Safety Division of the New York Operations Office be assigned to Pearl Harbor and that six Navy or Air Force personnel be assigned for possible monitoring operations in the Hawaiian Islands. It will be desirable but not essential that the individuals have had some radiological training. On the basis of past experience, they can be trained for their mission in 2-3 days. The individuals then will be held in readiness in the event the cloud trajectories warrant detailed measurements in the Hawaiian Group.

GUAM:

Similarly, a six man unit should be assembled at Guam where a representative of the Health and Safety Division of the New York Operations Office will be assigned. Of the three bases of mobile operations, the unit at Guam appears to be

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General Clarkson

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the most necessary because within its area of responsibility are islands on which fallout can be expected to occur. It is contemplated that the group at Guam will be assigned responsibility for reconnaissance of the Philippines and the Carolines.

KWAJALEIN:

A representative from the Health and Safety Division of the New York Operations Office at Kwajalein will be assigned responsibility for reconnaissance of that portion of the Marshalls beyond the cognizance of the Task Force, and the Gilbert Islands. This individual will be assigned responsibility for liaison with Task Force 132. He will also be responsible for liaison with Atomic Energy Commission's operations at Guam and Honolulu.

Based on our recent discussions with Commander Maynard, personnel and equipment limitations at Kwajalein may require that the staff and facilities of the Radsafe Officer be mutually utilized; however, it appears highly desirable that no less than six non-commissioned personnel be assigned to our monitoring mission.

Ideally, the mobile teams should obtain the kind of data which have been collected during the past two series of tests in the United States. It is proposed that the teams be completely equipped by the Atomic Energy Commission for the type of measurements we have made in the past, but because of operational difficulties inherent in the South Pacific, their actual mission should be determined in the field by the NYOO representative in charge. In some instances it may be feasible to collect complete data beginning prior to the arrival of the cloud, but it is more likely that our mobile operations will often consist of after the fact background radiation measurements.

To complete the picture of this world-wide fallout monitoring program as now envisioned there is attached a list of stations that will probably be in operation. This list is subject to minor



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changes after further conferences with the U. S. Weather Bureau and Department of State. The U. S. Air Force stations indicated are actually Air Weather Service installations located at these bases and their participation will be under the direction of the U. S. Weather Bureau.

Very truly yours,

John C. Bugher, M.D.  
Director  
Division of Biology and Medicine

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