Biluni

REPOSITORY DOE PASO

COLLECTION DOE NV

BOX NO. 1227 "ERDA#2"

BIKINI "SURVEY (BIO-ME)

FOLDER MARCH & APRIL - 1969

Hundre to me by

Frank Class, or 4/3/69.

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DRAFT

Because of the relatively large contribution of external exposure to the total exposure which will be received by the returning natives, it is most important to remove to the extent practicable all radioactive debris to which the natives might have access. This is particularly important on those inlands where the natives will reside on a full time basis.

To date, no official criteria have been provided by ADC/HQ got what shall constitute appropriate radicle ical standards for the elecanon operation. Inofficially, however, the pivision of Operational Safety, ADC/HA has recommended that criteria be based on ADC Hanual Chapter 5170, appendix 5170. This chapter provides for the disposal of surplus property including radicactively contaminated equipment. Hased on this chapter the following radicactively contaminated equipment. Hased on this chapter the following radicalines are recommended:

- 1. On all islands, every reasonable effort shall be made to reduce the the levels of contamination to the levest practicable level. Should any anomalous "hot spots" be found, the on-site ABC Radiological Safety advisor will recommend appropriate action to the Gormander.
- 2. For those materials where removable surface plutonium levels exceed 500 disintegrations per minute per 100 square centimeters, the material should be discussed of as relicative debris.
- 3. For those materials contaminated with beta or gamma emitters to levels in excess of 0.1 millirad per hour, the materials shall be handled as radioactive debris.

The application of the guidelines should be tempered with judgement and cormon sense.

On Enew and Bikini a careful ground m mitoring radiological survey will

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be conducted as each new road or planting swath is cut. Any radioactive debris found during cheanup will be disposed of by dumning in one of the three designated areas in the lagoon.

On Nam, where beeple will not be living continuously in the near future, general radiation levels are now in the 0.1 to 0.2 mm/hr range. In this case, no attempt to decentaminate the ground surface by removal of large quantities of top soil should be attempted since this would injure the island for future agricultural use. Acareful search for loose radioactive scrap, however, shall be made. Sorap netal or islate adjacent to any ground zero and all compaites and work areas will be considered. Radioactive materials which need to be disposed of and exceed criteria established by guide lines will be dumped in any one of the three designated areas in the lagoon. The specific location of these three designated areas shall be left to the discretion of the Atall Commander, but must meet the following criteria:

- 1. The minimum distance from the meanest islet will be one mile.
- 2. The mini um unter depth will be 35 fathors.
- (). The location will be recorded on an appropriate chart for future reference

If a plutenism contaminated area is found, the degree of contamination will be determined by the ADC Radiological Safety Advisor and he will make appropriate recommendations to the Commander.

WWW representatives will obtain exact locations of dotorations and will also try to pinyoin any potential plutonium contamination locations. These areas can then be given particular attention.

In some cases, bunkers or other structures near a former cround zero contain concrete with activated appragate or reinforcing steel which has reliation levels above 0.1 mg/d/rr. Depending on the level of reliation and

planned for the individual structures several recourses are available. These include cutting out of the contaminated or activated portion, complete removal of the structure, comenting over the reinforcing steel etc. The AEC Radiological Safety Advisor will make appropriate recommendation to the Atoll Commander.