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CONCEPTUAL DESIGN REPORT

Bikini Atoll



ENEU BASE FACILITIES

prepared for

USDOJ/USDOE AND THE BIKINI PEOPLE



prepared by

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SECTION 1

EXECUTIVE SUMMARY

This report, under authorization of the U.S. Department of the Interior through the U.S. Department of Energy, under contract #DE AC0886NV10-471, with Holmes & Narver, Inc., presents the engineering study associated with the first phase of final resettlement of the Bikini people to their homeland. Rehabilitation and resettlement is expected to be complete by the mid-1990's and will take place in three successive phases:

Phase I: Design and construction of Base Facilities on the Island of Eneu in preparation for the final rehabilitation of Bikini Atoll.

Phase II: Final rehabilitation of Bikini Atoll.

Phase III: Resettlement of the Bikini people to their homeland.

It has been determined by the Bikini Atoll Rehabilitation Committee (BARC) that Eneu Island on Bikini Atoll is once again safe for human habitation. This decision has initiated a program by which the Bikini people can safely return to and live on their Atoll. The first step in this program is to establish Base Facilities on Eneu Island for the purpose of rehabilitating the remainder of Bikini Atoll. Thus, this report culminates the engineering investigation and presents conceptual designs and costs for the Base Facilities on Eneu Island.

In August of 1986, members of a Holmes & Narver, Inc. engineering team and members of the Bikini Planning Council conducted a fact-finding visit to Bikini Atoll. The purpose of the field trip was three-fold: (1) to inspect Eneu Island and existing facilities; (2) to develop preliminary design concepts for the Base Facilities through discussions with members of the Bikini Planning Council; and (3) to utilize the most cost effective approach, in both construction and long-term maintenance, in basic design, and through the use of native labor and materials.

Of the numerous facilities and structures constructed on Eneu Island during the nuclear testing of the 1950's, only a few remain today. Many of the structures were demolished during the 1969 cleanup as described in Schedule A of this report. The physical condition of existing facilities on Eneu was noted during the August 1986 field trip and the planned action for these facilities is also detailed in Schedule A. A further detailed description of how existing facilities will be rehabilitated is also provided within this report.

In addition to rehabilitating existing facilities on Eneu, several new facilities will be added to the island to create a total Base Facilities complex. The Bikinians agree with the concept of efficiently utilizing all new facilities and thus new structures built on the Atoll will have both short-term and long-term usage potential. Design concepts and preliminary plans for the Base Facilities are presented in this report and have the full endorsement of the Bikini Planning Council.

Rehabilitation of existing facilities combined with the preliminary design concepts and plans provide the basis for the cost estimate for the Base Facilities. Although some of the new facilities and costs may not be essential for a minimum Base Facilities complex, they are essential for a final resettlement of the Bikini people to Bikini Atoll. An anticipated schedule associated with the design and construction of all Base Facilities is also included in this report.

While this report presents conceptual designs for the Base Facilities complex on Eneu Island, it also reflects the wishes and knowledge of the Bikini people. Their input throughout the preparation of this document has proven most valuable.