

Army Capt. Charles Day checks radioactivity at Cactue

## New cloud hangs over Enewerak: health fear for returning natives

First of three articles.

By BRUCE BENSON

ENEWETAK ATOLL - The 20th century slammed across this neckface of islets in a lary. Now spent of war and miclear explosions, the atoli is ready to be returned to the gentle people who formerly fixed here.

The people of Enewerak can over-come the unexpluded ordinance and other debris of World War II. They are less certain about living with radipactivity — some of it to remain for 240,000 years — released from 43 nuclear tests in the northern part of the atell from 1948 through 1950. Iteratic cases of cancer have

ecoured among other people of the heronesian mid-Pacific who were irradiated from the fallout of a hydrogen bomb test in 1954. The respected muligrancies have called into question the scientific as sumptions of human tolerance to

Pacific atolls who were dosed with downwind fallout, especially at Rongetap and Utirik, the Enewetak peo-ple are believed to have escaped radioactive contamination. The United States had removed them forcibly before the tests, to a distant

Although most want to return, Although most want to return, some of the people are wondering whether the technology that reduced much of Enewetak to inclear rubble, also can locate and remove contaminated matter to a level that will keep them free from radiation-induced illnesses such as cancer and rene mutations.

gene mutations.
While decontamination scientists of the Defense Nuclear Agency and the former Atomic Energy Commis-

now the Energy Research and elopment - Administration Development Development. Administration (ERDA), affirm they can do the job, events of recent years have instilled a sense of caution in the people of

Ten years ago, the United States undertook a similar cleanup at litki-ni atoll and allowed some residents

to return. A shill-pending suit was filed in 1975 with the U.S. District : filed in 1975 with the U.S. District Court in Hawaii/Claiming that the radiological scrubbing of Bikini was incomplete. ERDA monitoring of some 160. Bikini people who moved back to their atold in 1970 has revealed an uptake of radiometides spontaneously emitted radiant energy — in residents that is deemed in their than accordable.

chemical resembling to physical earlier and is found in cabible plants. The time lag for any given amount of cool in to dreap by sneshalf, known insitts halt-life, is 35 years.

"the will be having talks in the next few weeks with Trust Territory (fife earliers) has to the cool feet in the position.

Bikini, Enewetak, Rangalap and United Nations trusteeship set up in

events have occurred on Rongelap and Utigilt to shake confidence in the

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U.S. decontamination program, A little-publicized study by the Brookhaven National Laboratory reported in 1974 that growth retardation and thyroid tumors have developed in

some Rongelap residents.

They received skin irradiation in the "thousands of rads" from the downwind fallout of Operation Bravo, the U.S. hydrogen bomb-explosion at Bikini of March 1, 1984,

explosion at Blant of March 1, 198-, the study said. - 1 december 1, 198-, and the time of the (fallout) accident it was not considered likely that the thyroid had received a sufficient dose of radiologine to result in abnormalities. In retrospect this proved to be quite wrong, since thyroid injury and its sequelae have been the most serious late result of the fallout exposure of the Marshallese people, "said the report.

Of 68 persons irradiated on Ronor to persons fraudited on home galep, 29 developed thyroid abnormalities by 1974 and 24 underwent surgery for the removal of tissue. Cancer was found in three of the 24 patients. Advent Brookhaven review, the 24 patients and the stockhaven review.

The 20-year Brookhaven review, carried out for the Atomic Energy Commission, said: "Regarding cancer of the thyroid, on the basis of Marshall Islands statistics, about 0,035 cases would be expected in the Rongelap group over the 20-year period, whereas three cases occurred."

period, whereas three cases occurred." The 157 or 158 people of Utirik
atoli were farther downwind and received perhaps a 10th as many rads,
which are a unit of absorbed dosage.
Of that atoll, the study said: "In the
Utirik population about 0.05 cases
would be expected and one occurred; in view of the low dose of radiation it is unlikely that this case is
radiation induced."

It now develops, however, that

It now develops, however, that more than one malignancy have occurred among the Utirik people. An ERDA health team has docu-An ERDA health team has documented three confirmed cases of thyroid cancer, with still another unconfirmed. The Utiric people reportedly have lost confidence in the ERDA health visits, which are paid four times a year.

The incidence of thyroid cancer on Utiric may lead to a reexamination of service the result of the paid to a reexamination of service the result "sea" levels.

of previously assumed "safe" levels
of ionizing radiation.

Dr. Knud D. Knudsen, an ERDA
physician stationed on Kwajalein
atoli, left by boat last week to conduct the quarterly exacts on Diwin
and Rongelap but will not visit Utition assembling to Theodore Murawkii.

and Rongelap but will not visit our, according to Theodore Murawski, mother ERDA health official, on Kwajalein; 1972. "We're trying-to'get-another physician out here to visit Utitic," le said, "Dr. Knudsen is not going to Utirie on this trip in part because

the people there don't want him."

It is against this background that ERDA and the Defense Nuclear Agency are beginning their three-year cleanup of Enewetak with \$20 mil-lion appropriated by Congress. Visitors to the aloil arrive at Enewetak island, the largest of some

Enewetak island, the largest of some 60 islands, that encircle the placid waters of a lagoon 17 miles across and 23 miles long in a northerly southerly axis! The nation "Enewetak" is preferred by the islanders over "Eniwelok," the more common usage in post news stories.

Although a pipprick on the map, the atoll becomes a world of its own as one searches the horizon, able to see only a few of the scores of islets. In a corrugated tin building, the

In a corrugated tin building, the humidity held in check by trade winds and one struggling air condi-tioner, Army Col. Edgar Mixan led a briefing on the plan to return Enewetak to the people who, accord-ing to their legends, were "knere from the beginning,

Twelve islands of the atoll are con-

sidered noncontaminated at present, all of them in the south. Enewetak island, anchoring the southern quadrant of the vast fringing reef, and rant of the vast tringing cert and Medern island, two dots northward, were once bustling places where as many as 10,000 scientists and sup-port personnel lived while exploding nuclear devices at the atoll's northera section.

In the 1950s, Enewetak again be-In the 1960s, Enewetas again of came active as the receiving out for missiles launched from Vandenberg Air Force Base in California, Nose cones were aimed at the lagoon and recovered from its depths of, 100 to 200 feet.

200 feet. Troops of the 84th heavy combat engineering battalion from Scholield Barracks in Hawaii started arriving last week to clean up from the northern area an estimated 125,000 cubic yards of noncontaminated debris, 7,300 cubic yards of radioactive material and mother 79,000 cubic wards of soil contaminated with numerical soil contaminated soils. yards of soil contaminated with plu-

tonium

For the next six months they will be renovating facilities on Enewetak and building a mini-city on Lojwa, one of the few islands in the north one of the few islands in the north considered safe. A thousand troops and decontamination scientists will be sanitizing the atoll when the operation reaches its peak by the end of the year.

When through, they will dismantle most of the structures, then turn

When through, they will dismantle most of the structures, then turn over to the Department of Interior an additional \$12 million job of creating an agricultural base and living facilities in a land-use plan worked out in agreement with the Enewetak people.

NEXT: The Enewelak people return nome.

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