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In reply refer to:
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August 4, 1980

Dr. William J. Bair
Battelle Pacific Northwest Lab.
P. O. Box 999
Richland, Washington 99352

Dear Bill:

1. Cover. My recollection still remains that the Bikini people wanted the word radiation in the title to stand out by using smaller type for the remainder. As it is, this does not accomplish their wishes.
2. Glossary I question whether the statement "bone marrow makes blood cells" will mean anything to them. If they have a word for it, why define it?

The use of the word "cells" in the marrow definition followed by the definition of cells raises questions. Is it fair to say that these cells "... join together to make up each part ..." of the blood. Another reason to eliminate the marrow definition.

We talked a bit about the order of words. I would prefer to put them in the order in which they occur. As it stands, the definition of the word alpha, for example, includes the word "energy" and this is not explained until we reach radiation.

3. Introduction - next to last parag. The purpose of this paragraph was to explain that, although the titles, pictures and many of the words are the same as in the Enewetak booklet, there have been changes to, hopefully, clarify some of the information. If this is not included, I see no purpose to leaving the sentence as it is now.
4. Things That Are Radioactive
Parag. 4. The second sentence seems to be an improper place to introduce iodine. For the others, we were careful to introduce them by name and, then, describe the

The last arrow in the figure on the bottom of pages 4 and 5 should be removed. There is no symbol after the one with 4 wiggly lines.

5. pp. 7. In the top figure would it be possible to move the labels for air and soil closer to the symbols? Shouldn't the symbol on the man have a label such as "in people's bodies"?
6. pp. 9. I would prefer that the notation that islands were destroyed be in the legend with the islands shown in black dots as we did in the Eawetak booklet. There is no need to rub their noses in it by displaying it so prominently.
7. pp. 10. The legend on the figure is inappropriate for this section. In this section we are talking about what is there not how it is measured. In fact, the first English paragraph is the legend for this figure. Note that there is no Marshallese to correspond to the first paragraph. I also believe that this is the wrong figure. This one was drawn for the section "... they dug many holes ...". The figure of the man distracts from the point of the illustration in this section. Hank did have one with just the hole that was to go here.
8. pp. 12. On rereading the phrase "are near the surface", I am not certain what this means to the people. In fact it contradicts the next sentence where only part of the radiation from the deep soil reaches people. I would eliminate the rest of the sentence following cobalt.
9. pp. 14. The statement in the 2nd sentence of column 2 is true for plutonium but, not cesium. A large fraction of that eliminated from the lungs will be absorbed from the GI tract and not eliminated until later.
10. pp. 16, parag. 24W. Blood is included in the parts of the body. We then say that the parts are made of cells. Doesn't the blood consist of a large fraction of carrier



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TO: W. J. Bair

-3-

DATE: August 4, 1980

- plasma? What will the people think of this? I would eliminate blood from the list.

11. pp. 17, figure. The caption "cancer can occur like a swelling inside or outside on the body" ignores non-solid cancers and may be misleading. Could we add "in some types of cancer, however, no swelling occurs".
12. pp. 17, 2nd column. In the second line, the word "many" implies "not all". Are there groups of people that do not have natural mutations?

The last two sentences could be questioned on theoretical grounds because we have not specified the amount of radiation. Should this be related to the radiation received at Bikini? The wording of the last sentence could be changed to something like: "Scientists cannot detect a small increase". The present wording sounds a bit like we are telling them - prove it!

13. pp. 19. The last paragraph gives the impression that if they stay below the standard no harm will occur. Thus, in the sentence starting on the 7th line, "To protect people these organizations have recommended" It would be better to state that scientists believe that some harm will occur with even small amounts of radiation. Then "to keep the amount of harm small".

In parag. 34 move "given on pages 21 to 27" to follow "information" and set off with commas.

In parag. 35 do we want to indicate the possible return to their atoll? I thought that we had changed this.

14. pp. 21 et al. I trust that the numbers for cancers are not the real ones. For example, doubling the cancer in the next 30 years on Enyu seems somewhat high.
15. pp. 29. Shouldn't there be a caption for the figure.

2nd parag., last sentence. Do we really mean "that it was possible for there to be no danger"? Didn't they say that there was no danger?



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-4-

DATE: August 4, 1980

16. pp. 31. The last paragraph should be changed to reflect the fact that there are now two sets of maps.

Sincerely yours,

A handwritten signature in cursive script, appearing to read 'J. W. Healy', written over the typed name.

J. W. Healy

JWH:d1

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Reviewed by P. Schmitt Date 4/30/97