

ulations

85

Marshall Islands

NNL

~~BEIR-II~~ values as given in BEIR-I rather than the revised values based on increasing age of the population shown in Table V-4 of BEIR-III.

2. For estimates of cancer risk both the relative risk coefficient + the absolute risk coefficient were used to give a range of estimated ^{risks}. The absolute risk coefficient gives a lower value, is less variable with the population + is not dependent upon the spontaneous cancer incidence, which is not known for

the Bakers population. The relative risk coefficient give a high value, but since it is based on the spontaneous cancer incidence, which is unknown for the Bakers population, it is probably less reliable than the estimate ~~that~~ calculated from the absolute risk coefficients.

3. For estimating ^{inherent} cancer incidence, the bone marrow dose was used because it was slightly higher than the whole body dose. This ^{probably} introduces a small element of conservatism.

4. For estimation birth defects neither BEIR-I or BEIR-III is very clear about what is meant by parental dose, thus it is not clear whether ~~the~~ birth defects should be based on the dose to one parent or ~~that~~ to both parents. ~~The~~

In the latter case, the ~~the~~ 30-yr whole body dose would be doubled, ^{in addition}. Also because we believe the risk coefficient from BEIR-I ^{study} is ^{more} conservative than BEIR-III, we elected to use the

20 year whole body dose as ^{provided} D_1 - not detailed.

5. For ^{the 140} persons who returned to Bikini & were re-exposed in August 1978, it was assumed that no children will be conceived by persons above age 40, that 300 children will be born after August 1978, and that all children born will be offspring of parents, both of whom returned to Bikini. The parental dose was obtained as follows:

Average dose to males ≤ 40 years old = 1.36 rem

Average dose to females ≤ 40 years old = 1.08 rem

Total parental dose = 2.44 rem

parental dose used in calculator = 1.72 rem

6. The average dose values, ^{for persons who lived on Bikini} were calculated from ^{individual} ~~data~~ ^{data} ~~for the Bikini~~ ^{for 50 males & 49} females. These values are tabulated in the Appendix.

7. The ^{spontaneous} ~~total~~ incidence of birth defects was taken to be 10.7% of all live births ~~for~~ for BEIR-III.

These are average values for the