

Appendix 2

METHODS OF ANALYSIS USED BY THE AEC FOR THE RADIOLOGICAL ANALYSIS OF THE SAMPLES

The analytical method used for gross activity was aeration followed by liquid scintillation counting, with evaporation followed by gas-flow detector counting as an alternative method. The method used for U-234; U-235; U-238; Pa-231; Th-232; Th-230; Th-228; Th-227; Ac-227; Ra-228; Ra-226; Ra-224; Ra-223; Po-210; and Pb-210 was radiochemical separation followed by alpha particle spectrometry; Internal yield tracer and certified efficiency calibration standards. As an additional method U-235, U-238 and Th-232 were also determined by sample atomisation followed by mass determination using chemical calibration standards.