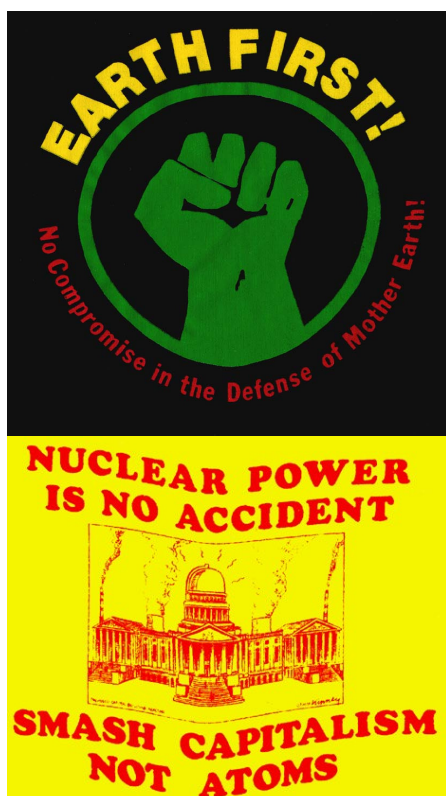


MALRAD SCENARIO 4



Background:

A newspaper receives a warning from a known extremist environmental group that public rooms of some government buildings have been contaminated with radioactive materials in a radical act of protest at an upcoming governmental vote on nuclear power. The warning is viewed as credible by the authorities in light of reports of suspicious activities at a number of nuclear facilities in a neighbouring country in the preceding months. The relevant authorities are dispatched to search for contamination and cleaners report having observed a black powder in the carpet of one of the public seminar rooms. A 3 x 3 inch NaI detector is employed to make measurements and this was mounted vertically some 50 cm above the surface of the carpet in question. A point source of ^{241}Am , ^{109}Cd , ^{137}Cs , ^{88}Y and ^{60}Co was measured to establish the energy calibration. The measured background corrected dose rate was of the order of 20 to 25 $\mu\text{Sv/hr}$ above the carpet.

Materials provided:

Two spectra, in a number of formats are provided.

Scenario_4_source.(range of formats) - the spectrum obtained from above the carpet.

Scenario_4_point.(range of formats) - spectrum of the point source taken earlier.