

## **RADIATION MONITORING EQUIPMENT**

Table 4. Tritium Survey Instruments

<b>Tritium Survey Instruments</b>			
<b>Instrument</b>	<b>Scale</b>	<b>Indicator</b>	<b>Description</b>
T-446	0 to 10	Microcuries per cubic meter ( $\mu\text{Ci}/\text{m}^3$ )	Portable, automatic scale switching, trickle charger for Nickel Cadmium F-sized cells. With adapter kit, has urinalysis capability with 5-minute response. Filters particulate to .3 microns; not sensitive to smoke and paint fumes.
AN/PDR-73	0 to 10K; four ranges	$\mu\text{Ci}/\text{m}^3$	Portable air monitor comprising radiacmeter Intensity Measuring (IM)-245/Portable Detector Radiation, designed to detect gaseous radioactive contamination in the ambient air. The instrument is capable of continuous air sampling and is calibrated to read directly the level of tritium. Powered by twelve internal rechargeable "C" cell batteries or by 115 Alternating Current Volt, 60 Hz when in continuous use.
AN/PDR-74	0 to 100K; three ranges	$\mu\text{Ci}/\text{m}^3$	The portable RADIAC set contains an IM-246 air monitor to detect gases. Calibrated in terms of tritium activity but may be used to monitor other radio gases. Powered by "D" cell batteries. Alarm sounds at preset meter reading.