

**RADIATION MONITORING EQUIPMENT**

Table 1. Alpha Survey Instruments

<b>Alpha Survey Instruments</b>				
<b>Instrument</b>	<b>Type</b>	<b>Scale</b>	<b>Indicator</b>	<b>Description</b>
AN/PDR-56	Scintillation	0 to 1000K, 4 ranges	CPM/100cm <sup>2</sup>	Small auxiliary probe provided for monitoring irregular objects. Mylar® probe face is very fragile; a puncture disables the instrument. Accompanying X-ray probe is calibrated for 17 kilo electron volt (keV) with associated meter scale from 0 to 10/m <sup>2</sup> in four ranges.
AN/PDR-77	Scintillation	0 to 999K CPM Digital Auto Ranging	123cm <sup>2</sup>	See the instrument sets in table AP7.T3.
ADM-300 (with alpha probe AP-100A)	Scintillation	0 to 1.2M CPM	CPM; microcuries per meter squared ( $\mu\text{Ci}/\text{m}^2$ ); dintegrations per minute (DPM) per 123 cm <sup>2</sup>	Portable alpha probe with three units of alpha measurement possible. High-range.
PRM-5	Scintillation	0 to 500K, 4 ranges	CPM	Portable, high- and low-range instrument for detecting plutonium contamination by measuring associated X rays and low-energy gamma radiation. Effective in inclement weather and much less subject to damage during field use.
Ludlum Model 3 (See table AP7.T2., below)	Scintillation	0 to 400K	CPM	Portable, high- and low-range instrument. Similar in operation and function to the AN/PDR-60.
Ludlum Model 2220	Scintillation	0 to 500K, 4 ranges	CPM	Liquid crystal display and integral digital readout.