

# ISO 18213-6:2008-03 (E)

## Nuclear fuel technology - Tank calibration and volume determination for nuclear materials accountancy - Part 6: Accurate in-tank determination of liquid density in accountancy tanks equipped with dip tubes

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Physical principles involved .....</b>	<b>2</b>
<b>4</b>	<b>Required data .....</b>	<b>4</b>
<b>5</b>	<b>Equipment required .....</b>	<b>4</b>
<b>6</b>	<b>Operating procedures .....</b>	<b>5</b>
<b>7</b>	<b>Calculation of probe separation and liquid density .....</b>	<b>5</b>
<b>7.1</b>	<b>General .....</b>	<b>5</b>
<b>7.2</b>	<b>Case 1: Fast bubbling rate .....</b>	<b>5</b>
<b>7.3</b>	<b>Case 2: Slow bubbling rate .....</b>	<b>8</b>
<b>8</b>	<b>Uncertainty estimation .....</b>	<b>10</b>
<b>8.1</b>	<b>Density .....</b>	<b>10</b>
<b>8.2</b>	<b>Local acceleration due to gravity .....</b>	<b>11</b>
<b>8.3</b>	<b>Changes in reference conditions .....</b>	<b>11</b>
<b>Bibliography .....</b>		<b>12</b>