

# ISO 7753:2023-09 (E)

## Nuclear criticality safety - Use of criticality accident alarm systems for operations

<b>Contents</b>	<b>Page</b>
Foreword.....	iv
Introduction.....	v
<b>1 Scope.....</b>	<b>1</b>
<b>2 Normative references.....</b>	<b>1</b>
<b>3 Terms and definitions.....</b>	<b>1</b>
<b>4 General design, detection principle.....</b>	<b>2</b>
4.1 CAAS functions.....	2
4.1.1 Main function.....	2
4.1.2 Additional functions (optional).....	3
4.2 Resilience.....	3
4.3 Detection criterion.....	3
<b>5 Management of unavailability.....</b>	<b>4</b>
<b>6 System design.....</b>	<b>4</b>
6.1 General.....	4
6.2 Alarm.....	4
6.3 Connections.....	5
6.4 Failure of detectors, false alarms, detection logic.....	5
6.5 Obsolescence, replacement parts.....	5
6.6 Supervising.....	5
<b>7 Criteria for positioning.....</b>	<b>6</b>
7.1 General.....	6
7.2 Positioning of detectors and detection zone.....	6
7.3 Alarm signal.....	6
7.4 Positioning of other CAAS components.....	6
<b>8 Testing.....</b>	<b>6</b>
<b>9 Personnel familiarization.....</b>	<b>7</b>
<b>Annex A (informative) Elements for the definition of the minimum accident of concern.....</b>	<b>8</b>
<b>Annex B (informative) Principles for CAAS detectors positioning.....</b>	<b>16</b>
<b>Annex C (informative) Examples of CAAS need considerations.....</b>	<b>24</b>
<b>Bibliography.....</b>	<b>28</b>