

## Ammonia Code of Practice

### Summary of changes from the 2008 edition to the 2012 edition

This document outlines the major changes to the Ammonia Code of Practice from the 2008 edition to the 2012 edition. The 2012 edition is effective for all audits conducted in 2012 and beyond until a subsequent update is published. There were a number of minor clarification made in the 2012 edition based on feedback provides to management from the dealers and the Auditors. These minor changes have not been outlined in this document and their addition to the 2012 edition should not impact sites certified under the Code prior to January 1, 2012.

All sites should take note of the major changes identified below. Sites should allow review all the policy documents which appear at the beginning of the 2012 Ammonia Code of Practice and Implementation Guide.

Protocol	Changes	Comment
<p><b>A1.2</b></p> <p>Contact with people located near the storage facility</p>	<p>Protocols A1.2 (a) and (b) have been deleted and replaced with protocol A1.3. This protocol is mandatory.</p> <p>The remainder of protocol A1.2 has been renumbered. The former A1.2 (c) is now A1.2 (a) and the former A1.2 (d) is now A1.2 (b).</p> <hr/> <p>Please note that effective January 1, 2017, all sites situated less that 500 metres from population concentrations for less than 100 metres from any occupancies will be required to have pull away protection installed on both liquid and vapour hose connections.</p>	<p>Protocols A1.2 (a) and (b) as well as protocol G2.2 have been replaced with A1.3. This was done to simplify the communication requirements into one protocol. These changes do not change the original intent of the required communication activity, rather provide a clearer indication of what the requirements are. Sites previously in compliance should encounter no difficulties meeting this new protocol provided that communication frequencies have been maintained and Protocol G2.2 was in compliance. This new protocol is mandatory. Previously protocol G2.2 was a point score.</p>

<b>A8</b> Housekeeping	A new protocol has been added requiring that a written housekeeping plan for all sites be in place. This is a mandatory requirement.	Housekeeping is an essential element to ensure all equipment, include life safety equipment, is maintained in an appropriate working manner. To assist sites in meeting this protocol, a checklist is available in the Appendices guide which can be accessed on the FSSC website at <a href="http://www.fssc.ca">www.fssc.ca</a>
<b>OLD B5</b> Measuring devices	Former protocol B5 required that measuring devices used for measuring the volume/weight of ammonia be suitable for anhydrous service and have been approved for this use.	This protocol has been removed from the Code. Given B5 has been removed all following protocols in section B have been re-number. For example the new B7 was B8 in the former guide.
<b>OLD C5</b> Measuring devices	Similar to B5, the former protocol C5 required that measuring devices used for measuring the volume/weight of ammonia be suitable for anhydrous service and have been approved for this use.	This protocol has been removed from the Code. Given C5 has been removed all following protocols in section C have been re-number. For example the new C7 was C8 in the former guide.
<b>C11.4</b>	This is a new requirement for nurse and applicator tanks which requires that hose end valves guards be in place.  The remainder of section C11 has been renumbered.	This is an important life safety addition to the protocols. This new requirement for nurse tanks is consistent with other protocols (B2.4 & C2.4) which already require hose end guards for fixed storage tanks and transport delivery units. This protocol is scored at 20 points.
<b>C16</b> Security for nurse and applicator tanks	This is the former protocol C17. This protocol has been re-worded but the content of the protocol is unchanged from the prior version.	C16.3 now has a section (a) and (b) where previously these were itemized separately. This change was made to improve the wording of this protocol.
<b>C17.2</b> Nurse and applicator tank	This was the former protocol C18.2. This protocol is now mandatory. Previously it was scored at 20 points.	The provision of a preventive maintenance program for tank running gears is essential to ensure their proper operation consequently this protocol was changed from a point requirement to a mandatory requirement.

preventative maintenance		
<b>D11</b> Customer education	This protocol, which requires that customers transporting and using anhydrous ammonia be instructed on the proper safety and emergency response procedures - now requires that customers be re-trained, at a minimum, every three years. This is a mandatory requirement. Previously this was a 20 point protocol.	Many facilities provide their customers with annual re-instruction on proper safety and emergency response procedures. This re-instruction frequency is encouraged. As a minimum all sites must be re-training customers every three years.
<b>E 2.1</b> Safe operating procedures	This is a training requirement that requires that employees be able to describe the correct processes for safety and effectively performing all anhydrous ammonia transfer operations.	This protocol was previously scored at 20 points. This protocol is now mandatory.
<b>E 3.1</b>	This protocol requires that records be available indicating an annual safety inspection for all vehicles transporting anhydrous ammonia.	This protocol was previously scored at 20 points. This protocol is now mandatory.
<b>E 3.2</b>	This protocol requires that records exist indicating an annual inspection of all running gear on nurse wagons.	This protocol was previously scored at 10 points. This protocol is now mandatory.
<b>OLD E3.3</b>	This protocol required that records be available indicating that required testing and verification of measuring devices had been completed.	This protocol has been removed and the remainder of section E3 has been re-numbered.
<b>OLD G2.2</b> Emergency response	This protocol required annual communication with occupancies within 3 km radius.	This protocol has been replaced by A1.3 and is now mandatory.
<b>Old H7.4</b>	This protocol for rail car operations that the availability of a safety belt/harness and 50 footlife line.	This protocol has been removed and the remainder of section 7.4 has been renumbered.