

BAM-Dangerous Goods Procedural Rules (BAM-GGR)

BAM-GGR 002 – Initial and periodic tests as well as the inspections of Intermediate Bulk Containers (IBCs)

Is a competent authority under:

- § 6 (2) No. 8 and 15 dangerous goods regulations for road and rail (GGVSE) in the version released on the 24th November 2006, (BGBl. I S. 2678)
- § 6 (5) of the maritime dangerous goods regulations (GGVSee) from the 6th January 2006 (BGBl. I No. 4 S. 138), last amended through article 518 V from 31st October 2006 (BGBl. I No. 50 S.2407) (9. competency ordinanceV)

In conjunction with the

- Directives for the implementation of the dangerous goods regulations for road and rail (GGVSE) (GGVSE-implementations guideline) – RSE – from the 29th January 2007 (VkB1. 2007, book 5, S. 106),

BAM publishes the following regulations following collaboration with the Federal Ministry of Transport, Building and Urban Affairs (BMVBS) and the affected economic bodies:

These regulations describe the process of the carrying out of inspections and tests on IBCs according to ADR/RID/IMDG-Code subsection 6.5.4.4 (Inspection and test of every metal IBC, rigid plastics IBC and composite IBCs) and 6.5.4.5 (repaired IBCs) as well as the process of recognition of inspection bodies according to § 6 (2), No. 8 and 15 of GGVSE through the BAM.

*Applicable with immediate effect.
Berlin, 30th July 2007*

Revision details:

Rev. 1 from 08.12.2000: Format alterations

Rev. 2 from 03-04.2001: Format alterations

Rev. 3 from 29.08.2003: Conformance with ADR/RID 2003 and the abolishment of the differences of inspections centres according to the IBC-volume

Rev. 4 from 30.07.2007: Conformance with ADR/RID 2007

BAM-GGR 002 – Initial and periodic tests and inspections of Intermediate Bulk Containers (IBCs)

1 Scope

These regulations apply to metal IBCs, rigid plastics IBCs and composite IBCs for the transport of dangerous goods.

2 Regulations of the BAM, acting as the competent authority

2.1 Tests

The initial and periodic tests of IBCs are, according to paragraph 6.5.4.4.2 of the ADR/RID and IMDG-Codes, to be carried out by competent (as defined under point 5) or recognised (as defined under point 6) inspection bodies and with consideration for these regulations.

2.2 Inspections

The requirements of section 6.5.4.4.1 a) of the mentioned regulations are considered to be satisfactorily fulfilled when the inspections are subjected to a competence test at least once every five years as explained under point 5 or recognised by the BAM as being carried out by a recognised Inspection body as described in point 6.

The requirements of section 6.5.4.4.1 b) of the regulations are considered to be satisfactorily fulfilled when the inspections (visual tests) are carried out by competent (as defined under point 5) persons.

2.3 Tests and inspections following repairs or maintenance.

The requirements of the section 6.5.4.5 of the mentioned regulations are considered to be satisfactorily fulfilled when repaired or otherwise maintained IBCs are inspected and tested as outlined in point 2.1 (as far as applicable) and point 2.2.

3 Definitions

3.1 Inspection of conformity to design:

Tests as to whether the Intermediate Bulk Container (IBC) is manufactured to design specifications in regard to the dimensions and used materials (including the wall thickness), as well as investigating whether proper welding processes were applied and whether the used structural and service fittings meet the specifications, as well as the correctness and legibility of the marking.

3.2 Inspection of the internal and external conditions

Visual inspections regarding the internal and external condition of the Intermediate Bulk Container (IBC), particularly that of the coatings (paint, galvanisation), the presence of rough/sharp edges, damage to the container body and structural finishing's as well as corrosion.

3.3 Inspection of the accepted functions of the service equipment.

Testing of the filling and emptying mechanisms (controlling the tops connections, condition of the seals, safety of the flooring in the event of the use of a quick release clamp etc.), tests regarding the effectiveness of venting device as well as the response behaviour of pressure relief device.

4 Processes of the tests and inspections, documentation

4.1 The tests (leak test) to be conducted before the first time use for transport of dangerous goods and the inspection to be conducted before the IBC is brought into service are carried out by the manufacturer within the framework of the final in-production inspection before handing over an IBC. They are subject to the regulations of the safety-quality program of the manufacturer recognised by the BAM.

4.2 The documentation of the examinations carried out before the first time use of the IBC and those of the inspection carried out prior to the IBC being brought into service belong to the production documentation of the manufacturer. The persons responsible for the affixing of the UN-marking are according to subsection 6.5.2.3 also responsible for ensuring conformity with the approved design and, if required, the leak tightness of the individual IBCs.

- 4.3 The periodic tests/inspections are conducted at the cost of the user/owner as outlined by the inspection body and under the use of test manuals. For the purpose of the tests and inspections the user/owner is to be prepared to provide a suitable test environment and any documentation relating to the results of previous tests/inspections.
- 4.4 The results of the tests and inspections must be recorded in the form of a report, which the user or owner of the Intermediate Bulk Container (IBC) is to retain until the next inspection.
- 4.5 The results of the tests and inspections and any made decisions resulting from these results regarding the future use of the IBC are to be fully documented in this report.
- 4.6 The report may only be signed or validated in any other means by workers with the authority to do so.
- 4.7 The marking plate of the IBC are to contain the date (month and year) of the leak test and/or the inspection according to section 6.5.4.4.1 b) (compare 6.5.2.2.1). For inspections following section 6.5.4.4.1 a) the approved markings of the centre (stamp) are additionally required. For tests and inspections carried out after successful repair or maintenance according to section 6.5.4.5 the IBC is also to be marked with the markings of the state in which the test and inspection was carried out.

5 Authorities, recognised Inspection Bodies and Experts

- 5.1 Authorities are:

Those authorities named in § 6 paragraphs 5 and 7 of the GGVSE
- 5.2 Recognised inspection bodies are those recognised by the BAM under point 6 of these regulations.
- 5.3 Experts are persons who
 - are entrusted with these tasks by the management and require no instruction in the carrying out of such responsibilities;
 - due to their specialised education, their knowledge or practically gained experience guarantee that the tests are carried out according to regulations and
 - who possess sufficient knowledge regarding the specifics relating to the Intermediate Bulk Container (IBC) to be tested, perhaps through specific training.

6 Process of recognising an inspection body.

- 6.1 Inspection bodies fulfilling the requirements as outlined in the annex will be recognised by the BAM after paying the costs of the services rendered by the BAM as detailed in the expenses directive.
- 6.2 There is no preferred method for the submission of an application for recognition as an inspection body. As such all detailed data regarding the test facility provided to the BAM is to account for the professional competence of the employee and the quality management system in written form. Relevant prerequisites such as for example accreditation for DIN EN 45001 or DIN EN ISO/IEC 17025 will be recognised according to the proven area of competence.
- 6.3 For the first recognition the inspection body must prove its fulfilment of these requirements through a first time BAM audit.
- 6.4 The recognition follows an examination of the provided documentation. This recognition is time limited and generally valid for three years. This may be renewed for a further three years following another successful audit.
- 6.5 The recognition may be revoked by the BAM at any time should for example repeated mistakes be made during the inspection procedure.
- 6.6 Inspection bodies recognised by the BAM are members of the working party "Inspektionsstellen" (Inspection bodies), which generally convenes once a year. It serves the purpose of exchanging experiences, the standardisation of the inspection practise, sharing of information regarding the establishment of new regulations and standards, and the need for revisions to

already existing regulations and standards. The participation of at least one representative from each inspection body is obligatory.

- 6.7 Alternatively the recognition can be limited to one year with the option of renewing it for a further year following another successful BAM audit instead of taking part in the exchange of experience, due for example to problems with the language for foreign inspection bodies.
- 6.8 Following recognition by the BAM the inspection body will be recorded in the published directory for recognised inspection bodies specifying contact persons and details (Tel./Fax/Email) and displaying an image of the marking stamp.
- 6.9 The BAM is to be made immediately aware of any changes made after the recognition, particularly regarding the persons responsible for the handling of the inspections.

Annex Requirements of an inspection body.