



Figure 2- 1 Location of the center of gravity of TK-C69 TP

2.1.4. Codes and standards used for design purposes.

TP TK-C69 loaded with TVS-K was estimated with consideration for general standards encompassing all package designs enlisted in 10CFR 71 § 71.43, SSR-6 (Items 607-651) and NP-053-16 (Items 2.4 – 2.8).

Production, assembly, testing, maintenance and operational procedures shall be executed compliant to the following normative/technical documents:

- GOST 14.201-83. «Assurance of manufacturable structures»;
- GOST 14.205-83. «Manufacturability of product structure»;
- GOST 14192-96. «Labeling of cargo»;
- GOST 15150-69. «Machines, devices and other technical tools. Alternative versions for different climates. Categories, operational conditions, storage and transportation under different environmental factors»;
- GOST 19433-88. «Hazardous cargo. Classification and labeling»;
- GOST 23170-78. «Packages for machine engineering products. General requirements»;
- NP-001-97. «General safety provisions for atomic power plants. »;
- NP-016-05. «General safety provisions for the objects of nuclear fuel cycle»;
- NP-061-05. «Safety rules to be observed during storage and transportation of nuclear fuel at the objects implementing atomic energy»;
- NP-063-05. «Nuclear safety rules for the objects of nuclear fuel cycle»;

- NRP-93. «Norms substantiating strength calculations for transportation packaging carrying nuclear fissile materials»;
- PBYA-06-00-96. «Principal branch-wide rules of nuclear safety encompassing usage, recycling, storage and transportation of nuclear-hazardous fissile materials»;
- PBYA-06-09-90. «Nuclear safety rules in the process of storage and transportation of nuclear-hazardous fissile materials»;
- PNAEG-7-009-89. «Equipment and pipelines of atomic energy facilities. Welding and ad-welding. General provisions»;
- PNAEG -7-010-89. «Equipment and pipelines of atomic energy facilities Welded joints and ad-welds. Rules to be observed during control»;
- PNAEG -7-019-89. «Unified methods to control basic materials (semi-finished products), welded joints and ad-welds on the equipment and pipelines of atomic energy facilities. Ultrasonic control. Control of pressurization. Gaseous and liquid methods»;
- SP 2.6.1.1281-03. «Sanitary rules for radiation safety of personnel and population during transportation of radioactive materials (substances)»;
- SP2.6.1.24-03. «Sanitary rules covering design and operation of atomic power plants»;
- SP 2.6.1 758-99. «Ionizing radiation and radiation safety. Norms of radiation safety»;
- SP 2.6.1 799-99. «Ionizing radiation and radiation safety. Basic sanitary rules ensuring radiation safety»;
- International code of marine transportation of hazardous cargo (IMDG-Gode);
- European agreement for land-based transportation of hazardous cargo at international scale (ADR);
- Rules of safe transportation of hazardous cargo ;
- Rules of transportation of hazardous cargo – annex 2 to the Agreement for international railway cargo transportation;
- European agreement for transportation of hazardous cargo via internal waters (ANDR).