

6.6. Power supply

~~If the AECD is fitted with built-in power supply, it shall be able to operate autonomously~~ for a period of first not less than 5 minutes in voice communication mode followed by 60 minutes in call-back mode (**idle mode, registered in the network**) and finally not less than 5 minutes in voice communication mode.

This capability is tested after performing AECD sled test in accordance with Annex 4 in the following conditions:

- Built-in AECD battery has to be fully charged at the time the test begins, at the discretion of the applicant;
- Ambient air temperature: $(25 \pm 10)^{\circ}\text{C}$
- Average network signal strength

If the AECD is not fitted with built-in power supply, then AECS power supply assessment is performed as described in paragraph XXX16.6. of Part II of this Regulation.

~~As an alternative to the above, the applicant shall demonstrate to the satisfaction of the Technical Service that the performances of the 5-60-5 are fulfilled after the impact.~~

Part II VEHICLES WITH REGARD TO THE INSTALLATION OF AN AECD OF AN APPROVED TYPE

16.5. Verification of AECS functionality (emission of Ecall, HMI functionality and MSD)

The following items shall be verified according to the test procedures of paragraph 4 or 5 to Annex 8 of this regulation as appropriate:

16.5.1. Activation of automatic call

16.5.2. When relevant, manual emergency call control operation

16.5.3. Warning signal generation and microphone operation

16.5.3. Recording, content and emission of Minimum Set of Data (MSD)

16.6. Verification of AECS power supply performance

If AECS power supply assessment is not part of AECD approval according to paragraph 6.6 of Part I of this Regulation, then AECS power supply has to be assessed by one of the following methods:

16.6.1 If the vehicle is subject to the test under Regulation No. 94, then it shall be demonstrated to the satisfaction of the Technical service that the AECS is able to operate after the Regulation 94 test for a period of first not less than 5 minutes in voice communication mode followed by 60 minutes in call-back mode (**idle mode, registered in the network**) and finally not less than 5 minutes in voice communication mode. This shall be done via

- Performing the sequence of 5 minutes voice call followed by 60 minutes of standby and finally 5 minutes of voice call, or
- Demonstrating that
 - the capacity of the standard vehicle battery (power supply) is sufficient to supply power to all vehicle systems for a period of at least 70 minutes, including AECS, performing the sequence of 5

Mis en forme : Retrait : Suspendu : 1,75 cm

Mis en forme : Retrait : Gauche : 3,87 cm, Avec puces + Niveau : 2 + Alignement : 12,25 cm + Retrait : 12,89 cm

Mis en forme : Retrait : Gauche : 4,87 cm, Avec puces + Niveau : 3 + Alignement : 6,93 cm + Retrait : 7,56 cm

Commenté [OF1]: All what is powered after the crash (from radio to ECU of the vehicle). Realistic worst case.

minutes voice call followed by 60 minutes of standby and finally 5 minutes of voice call, and

- the main battery (power supply) was not damaged during the Regulation No.94 test

16.6.2 If the vehicle is not subject to the test under Regulation No. 94, and is subject to the test under Regulation No. 95, then it shall be demonstrated to the satisfaction of the Technical service that the AECS is able to operate after the Regulation 95 test for a period of first not less than 5 minutes in voice communication mode followed by 60 minutes in call-back mode (**idle mode, registered in the network**) and finally not less than 5 minutes in voice communication mode. This shall be done via demonstrating that

- the capacity of the standard vehicle battery (power supply) is sufficient to supply power to all vehicle systems for a period of at least 70 minutes, including AECS, performing the sequence of 5 minutes voice call followed by 60 minutes of standby and finally 5 minutes of voice call, and
- the main battery (power supply) is not damaged during sled test according to Annex 4

16.6.3 If the vehicle is not subject to the test under Regulation No. 94 or 95, then it shall be demonstrated to the satisfaction of the Technical service that the AECS is able to operate after crash test for a period of first not less than 5 minutes in voice communication mode followed by 60 minutes in call-back mode (**idle mode, registered in the network**) and finally not less than 5 minutes in voice communication mode. This shall be done by

- providing documentation demonstrating that the capacity of the standard vehicle battery (power supply) is sufficient to supply power to all vehicle systems for a period of at least 70 minutes, including AECS, performing the sequence of 5 minutes voice call followed by 60 minutes of standby and finally 5 minutes of voice call in post-crash scenario, and
- verifying that main battery (power supply) is not damaged during sled test according to Annex 4

16.6.4 Tests described in paragraphs 16.6.1 and 16.6.2 shall be performed in the following conditions:

- Vehicle battery (power supply) is fully charged at the time the test begins, at the discretion of the applicant;
- Ambient air temperature: (25 ± 10)°C
- Average network signal strength

← **Mis en forme** : Retrait : Gauche : 2 cm, Sans numérotation ni puces

← **Mis en forme** : Retrait : Gauche : 2 cm, Sans numérotation ni puces

← **Mis en forme** : Retrait : Suspendu : 1,75 cm

← **Mis en forme** : Retrait : Gauche : 2 cm, Suspendu : 1,75 cm