



**GOST R 54721-2011 Global Navigation Satellite System  
Emergency response system in case of accidents  
General procedure for the provision of basic services**

GOST R 54721-2011

NATIONAL STANDARD OF THE RUSSIAN FEDERATION

Global navigation satellite system

EMERGENCY RESPONSE SYSTEM IN ACCIDENT

General procedure for the provision of basic services

Global navigation satellite system. Accident emergency response system.

General base service description

ACS 33.020 \*

\* In ICS 1-2013 GOST R 54721-2011 provided with ACS 33.070.40. -

Note the manufacturer's database.

Introduction date 2012-09-01

## **Foreword**

The objectives and principles of standardization in the Russian Federation established [by the Federal Law of 27 December 2002 N 184-FZ "On Technical Regulation"](#) , and of national standards of the Russian Federation - [GOST R 1.0-2004 "Standardization in the Russian Federation. Significant "](#)

### **Details standard**

1. Developed an open joint stock company "Navigation Information Systems" (JSC "NIS")
2. Make the Technical Committee for Standardization TC 363 "Radio navigation"
3. Approved and entered into force [Order of the Federal Agency for Technical Regulation and Metrology of December 13, 2011 N 882-item](#)
4. Pioneered Information about changes to this standard is published in the annual index

published by the Information "National Standards", and the text changes and amendments - in monthly indexes published information "national standards." In the case of revision (replacement) or cancellation of this standard a notice will be published in the monthly index published by the Information "national standards." Relevant information, notification and lyrics are also posted in the public information system - the official website of the Federal Agency for Technical Regulation and Metrology of the Internet.

## **Introduction**

Emergency response system in case of accidents, "ERA-GLONASS" system ("ERA-GLONASS") is intended to reduce the severity of accidents and other accidents on the roads of the Russian Federation, by reducing the response time of emergency services. System "ERA-GLONASS" is of devices installed on vehicles onboard terminals (car system call emergency services), and geographically distributed in the territories of the Russian Federation elements of infrastructure (navigation and information centers and regional switching nodes.) The basic service provided by the system "ERA-GLONASS" is automatically formation, processing, storage and conveying emergency messages about road accidents in-112, or any other system on the adjacent territory of the Russian Federation and the establishment of security (operations), two-way voice communication with the persons in the vehicle. system "ERA-GLONASS" harmonized with the European system e Call created by major functional properties (using a modem tone as the main mechanism for transferring data, unified structure and format of the required data transmitted as part of an SOS message, establish uniform rules and complete the two-way voice connection with persons in the cab of the vehicle, and others). This standard is a set of standards, "Global Navigation Satellite System. Emergency response system in case of accidents," and defines a general procedure for the provision system "ERA-GLONASS" base (basic) services. Main provisions of this standard are interrelated with the basic set of national standards, "Global Navigation Satellite System. Emergency response system in case of accidents": GOST R 54620-2011 "Global navigation satellite system. Emergency response system in case of accidents. Automotive system calls emergency services. General technical requirements" , GOST R 54619-2011 "Global Navigation Satellite System. Emergency response system in case of accidents. Communication Protocols car system calls emergency services with the infrastructure of emergency response in case of accidents" .

## 1 Scope

This standard applies to the system of emergency response in case of accidents, "ERA-GLONASS" and establishes a common procedure for the provision of basic services.

## 2 References

Used in the standard normative references to the following standards: [IEC 50646-94](#) services to the population. Terms and definitions [GOST R 52928-2010](#) global satellite navigation system. Terms and definitions [GOST R 53801-2010](#) Federal Communications. Terms and definitions [GOST R 54619-2011](#) Global Navigation Satellite System. Emergency response system in case of accidents. Communication Protocols car system call emergency services with the infrastructure of emergency response in case of accidents [GOST R 54620-2011](#) Global Navigation Satellite System. Emergency response system in case of accidents. Car system call emergency services. General Technical Requirements Note - When using this standard appropriate to test the effect of reference standards for public information system - the official website of the Federal Agency for Technical Regulation and Metrology on the Internet or published annually by the information sign "national standards", which is published on the 1st of January this year, and the relevant monthly published by Information Index, published in the current year. If the reference standard is changed (modified), when using this standard should be guided by substituting (modified) standard. If the reference standard is repealed without replacement, the position in which reference is made to it, is used in the part which does not affect the link.

## 3 Terms, definitions, symbols and abbreviations

3.1 This Standard uses the terms defined in [IEC 50646](#) , [IEC 52928](#) , [IEC 53801](#) , as well as the following terms and definitions apply:

3.1.1 **Car system call emergency services**; Speaker: The system installed on a wheeled vehicle the appropriate category and are designed to determine the location and parameters of the vehicle on the signals of global navigation satellite system of the Russian Federation (GLONASS), the message about the vehicle in road accident and provide two-way voice communication with the emergency services.

3.1.2 The **challenge of "ERA-GLONASS" emergency (emergency call)**: a phone call to a single number "112" (with one set of identifiers COS), initiated by the vehicle system call

emergency services maintained network (s) of cellular (mobile radio) connection. NOTE - An emergency call is made to transmit an SOS message, the AU and the establishment of two-way voice communication with the persons in the vehicle.

3.1.3 **Duty-dispatching service;** DDS: control of emergency services, operating around the clock and is designed for the operational management of subordinate forces and means.

3.1.4 **brief reference identifier;** CSI: The short form of the call identifier "ERA-GLONASS", limited current and recent incidents, intended for oral transmission of information Operator call center staff of 112, and providing access to the post of "ERA-GLONASS "over the Internet.

3.1.5 The **minimum set of data;** MND: A set of data that is passed to the automotive system call emergency services when a car accident, and includes information about the coordinates and parameters of movement of the emergency vehicle and the time of the accident, VIN-code of the vehicle and other information, necessary for emergency response.

3.1.6 **Navigation and Information Centre;** SIC: Control system infrastructure "ERA-GLONASS" for receiving, recording, processing and filtering (if it includes a filter contact center) messages from the automotive call emergency services with territory served by the SIC, as well as to generate and transmit an emergency message system "ERA-GLONASS" to the appropriate call center system-112 or other related systems on the territory of the Russian Federation. Remarks

1. The composition of functional problems solved SIC SIC divided into Tier 1 and SRC-2 level.

2. Area (region) SIC service is usually Federal District of the Russian Federation.

3.1.7 **Service Provider:** Legal entity that provides telecommunications services under the license.

3.1.8 **The operator of an emergency response in case of accidents, "ERA-GLONASS" (system operator):** A legal entity performing the operation and maintenance of the system "ERA-GLONASS", including the processing of the information contained in its databases.

3.1.9 **The complete data set;** IPA: Extending a minimum data set additional data elements to be included in the emergency broadcast system "ERA-GLONASS" to improve emergency

response in the aftermath of the accident.

**3.1.10 Consumer base service:** The driver and / or passenger (s) of the vehicle on which the speakers.

**3.1.11 Regional switching node; CGS:** The element of infrastructure systems "ERA-GLONASS", intended to receive calls the system "ERA-GLONASS" networks of mobile telephone communications and the transfer of appropriate messages in the call center system-112 or other related systems in subject of the Russian Federation.

**3.1.12 Assurance system call emergency services via a single number "112" (System-112):** Geographically distributed automated information management system developed in the borders of the Russian Federation, uniting on the basis of uniform on-duty dispatchers municipal duty and dispatch services emergency services and providing treatment to the citizens of the required emergency services using a single telephone number "112".

**3.1.13 System Suite (with respect to a system of "ERA-GLONASS")** Automated Information System on-duty dispatcher service responsible in accordance with the legislation of the Russian Federation on the implementation of the functions of ensuring the cooperation of emergency services in the region of the Russian Federation in the calls ( incident report), which is transmitted an SOS message system "ERA-GLONASS." Note - To include related systems: - System-112; - uniform automated information system of federal bodies of executive power, in charge of on-duty traffic control services, authorized in accordance with the legislation of the Russian Federation on the implementation of the functions of ensuring the cooperation of emergency services in the Russian Federation, in which the system-112 is not formed in accordance with [\[1\]](#) .

**3.1.14 The emergency response system in case of accidents (the system "ERA-GLONASS"):** Federal automated navigation and information system, which operates using the global navigation satellite system of the Russian Federation (GLONASS) standard accuracy, realizing the delivery of messages about traffic accidents and other emergencies on the roads of the Russian Federation, emergency services, and getting the message about the results of the Incident. Note - The analogue system "ERA-GLONASS" is created by the pan-European system of eCall, with which the system "ERA-GLONASS" is harmonized by the basic functional properties ( the use of a modem tone as the main mechanism for transferring data, unified structure and format of the required data transmitted in the MND, the establishment

of uniform rules and complete the two-way voice connection with persons in the vehicle, etc.).

3.1.15 **AC urgent message:** E-mail message, generated and transmitted to the automotive system call emergency services in the emergency call from the network (network) mobile radio communication system, comprising a minimum set of data on road traffic accidents, as well as other data on road traffic incident generated automotive system depending on configuration. Note - Configurations car system call emergency services - in accordance with [IEC 54620](#) .

3.1.16 **The system message "ERA-GLONASS" emergency:** An e-mail, a system generated "ERA-GLONASS" on the basis of specials AU, containing a complete set of data on road traffic accidents and for transmitting a call center system 112-a adjacent system.

3.1.17 **Tone modem:** Modem that allows the transfer of data within the established voice connection.

3.1.18 **Vehicle**, the TC: Surface mechanical device on wheels of categories M and N, intended for use on public roads and car equipped with the system call emergency services [\[2\]](#) .

3.1.19 **Service system "ERA-GLONASS" base:** The result of the system "ERA-GLONASS" consisting automatic generation, handling, storage and conveying emergency messages about road accidents in the call center system-112 or other related system territory of the Russian Federation and the establishment of security (operations), two-way voice communication with the persons in the vehicle.

3.1.20 **Unique reference identifier;** SII: Symbolic or numeric name assigned to the navigation and information center for each call of "ERA-GLONASS".

3.1.21 **Filter the contact center;** FCC: structural element of the Information Center, designed to provide process control system calls "ERA-GLONASS" and the identification of false calls.

3.1.22 **Processing Center (telephone) calls;** ATC: Functional or structural element of the system-112 or other related systems for receiving and processing in real-time incoming voice calls and data (reports of incidents, including emergency message system "ERA- GLONASS " ),

arriving at number 112.

3.1.23 **The emergency services**; EOS: Control of authorized federal executive bodies and their territorial bodies, executive bodies of subjects of the Russian Federation or local governments, as well as their subordinate forces and resources that are in constant readiness for prompt action to ensure the safety and people and property in the event of emergencies and situations.

#### Remarks

1. Emergency services include the appropriate on-duty dispatcher service of abbreviated call emergency numbers of the population, and subordinate forces and means directly responsive to the received calls.
2. A list of emergency services, which call around the clock and free the operator is obliged to provide to the users of telecommunications services, is set to [\[3\]](#).

3.2 This standard uses the following symbols and abbreviations are used: ARM - workstation, the database - the database; GNSS - global navigation satellite system; eCall - Emergency Call (European system of emergency response in case of accidents); GSM - Global System for Mobile Communications (Global digital standard for mobile communications); GPS - Global Navigation Satellite System of the United States of America; SMS - Short Message System (short message system); UMTS - Universal Mobile Telecommunications System [Universal Mobile Telecommunications System cellular (mobile telephone), the third generation]; VIN - Vehicle Identification Number (vehicle identification number).

#### 4 General

4.1 The basic service is the main service provided by the system of emergency response in case of accidents, "ERA-GLONASS", based on its target destination. Basic (basic) service is a result of the system "ERA-GLONASS" consisting automatic generation, handling, storage and communicating emergency messages about road accidents in the call center system-112 or other related system and to establish (switching) two-way voice communication with persons in the vehicle at the territory of the Russian Federation.

4.2 The consumers of basic services are natural persons (the driver and / or passenger, passengers) in the vehicle on which the speakers. Such persons are also applicants and basic services.

4.3 The Contractor is a system of basic services "ERA-GLONASS", consisting of devices installed on vehicles onboard terminal system "ERA-GLONASS" (car system call emergency services), and geographically distributed in the territories of the Russian Federation elements of the infrastructure of the system, run by the operator system "ERA-GLONASS".

4.3.1 Automotive system call emergency services for automatically generating and transmitting on mobile wireless networks GSM, UMTS minimum information about a traffic accident (specials AU), as well as to establish a two-way voice communication with persons in the transport vehicle.

4.3.1.1 Transfer specials AU and the establishment of a two-way voice communication by persons in the vehicle, carried out by an emergency call to a single number "112" (with one of the established categories of service identifiers of the call).

4.3.1.2 Register speakers in the network of mobile telephone communications carried out at the time of the initiation of the emergency call.

4.3.2 The main elements of the infrastructure of the "ERA-GLONASS" is a navigation and information center (SIC 1st and 2nd levels) and the regional switching nodes.

4.3.2.1 In the SIC level 2 in a fixed service area assigned the tasks of receiving, recording, processing and filtering (if it includes a filter contact center) messages from the speakers with the territory served by the SIC, as well as for the formation of and messaging system "ERA-GLONASS" to the appropriate call center system-112 or other related systems.

4.3.2.2 In the SIC Level 1 functions in addition to ensure the provision of basic services in the secured area of service to the extent provided in 4.3.2.1, shall be assigned the control of the system "ERA-GLONASS" in general and the execution of the backup center in case of a temporary release from the staffing process conditions of one of the SIC level 2. Remarks

1. SIC level 1 is also called the Federal navigation and information center (FNITS).

2. The structure of the individual SIC 1st and 2nd levels may include filtering the contact center, the main objectives of which are specified in 3.1.21.

4.4 Call Center (System-112 or other related systems) receives and processes emergency broadcast system "ERA-GLONASS" and bring them to provide relevant units (subsystems) in the structure of the system-112 or other related systems for the decision to involve relevant emergency services for the elimination of the consequences of an accident, as well as representation in the system, "ERA-GLONASS" reports the results of the Incident. Information interaction system "ERA-GLONASS" system-112 or other related systems is organized on a territorial basis (within the boundaries of the Russian Federation) and is carried out in accordance with the legislation of the Russian Federation.

4.5 Network operators [mobile (cellular) communications, telephone (local, national, intra-regional, international) communication] are mediators in the delivery of basic services in the provision of in the prescribed manner appropriate channels of communication entities mentioned in the 4.2-4.4 to establish voice communication and data exchange between them.

4.5.1 Transmission of emergency messages carried by the AU mobile wireless networks GSM, UMTS. Activities concerning the transfer of priority emergency messages AU mobile radio communications networks GSM, UMTS is carried out in accordance with the legislation of the Russian Federation in the field of communication [\[4\]](#) .

4.5.2 Information interaction between elements of the infrastructure of the "ERA-GLONASS", as well as between the "ERA-GLONASS" system, and 112 and other related systems, carried out by the telephone networks (local, long distance, intra-) connection.

4.5.3 The interaction of the system operator "ERA-GLONASS" with the network operators, referred to in 4.5.1 and 4.5.2 shall be in accordance with the requirements established by the legislation of the Russian Federation in the field of communication [\[4\]](#) .

4.6 GLONASS and other similar systems are mediated entities providing basic services. These systems provide free of navigation signals used to determine the coordinate-time parameters and motion parameters (speed, direction) of the vehicle on which the speakers. Kinds of global navigation satellite systems, navigation signals which except GLONASS should be used to determine the location, time and the parameters of the vehicle, as well as other requirements for the navigation performance and properties of the AU, which it

must comply with in relation to the basic service are set out in [IEC 54620](#) (Section 8).

4.7 We establish the following options for the system "ERA-GLONASS" basic services.

4.7.1 Option provision of basic services, in which an emergency message system "ERA-GLONASS" about a traffic accident goes to a call center system, 112 of the Russian Federation, where the accident occurred. This variant is a major in the delivery of basic services and the when the subject of the Russian Federation-112 system established and put into operation in the manner provided [\[1\]](#) .

4.7.2 Option provision of basic services, in which an emergency message system "ERA-GLONASS" about a traffic accident goes to a call center related system of the Russian Federation, where the accident occurred, authorized in accordance with the legislation of the Russian Federation on exercise the functions of Interoperability of emergency services in the region of the Russian Federation to the call (incident report) on a single number "112." This variant rendering system "ERA-GLONASS" basic services is temporary and is used when the subject of the Russian Federation system -112 is not created in the manner described in [\[1\]](#) .

4.7.3 In the provision of basic services for each of the above in 4.7.1 and 4.7.2 of options in addition to bringing an SOS message system "ERA-GLONASS" adjacent to the ATC system is also carried out: - to ensure the establishment of (switching) voice channel of communication between persons who are emergency vehicle and adjacent ATC system; - bringing in "ERA-GLONASS" of the results of response to each emergency message system "ERA-GLONASS" through the adjacent ATC system, in which the message was received.

## 5 Description of the basic services

### 5.1 Stages of providing basic services

5.1.1 The process of providing basic services includes the following steps: - request for basic services (application for the provision of services); - providing access to basic services; - the provision of basic services by the system operator "ERA-GLONASS"; - documenting and archiving of data service.

5.1.2 Stepwise description of the process of providing the basic services provided in 5.2-5.5 and described with reference to the basic version of the service specified in 4.7.1, when the

adjacent (to the system "ERA-GLONASS") is a system-112.

5.1.3 General procedure for the provision of basic services for cases where the subject of the Russian Federation-112 system is not yet operational in the manner provided in [\[1\]](#) , fully corresponds to that in 5.2-5.5. Difference lies in the fact that the emergency message system "ERA-GLONASS" enters the ATC-112 is not a system, and other related systems on the territory of the Russian Federation with authority in the legislation of the Russian Federation Law on synergies of emergency services in the calls (incident report) on a single number "112" .

## 5.2 Request for basic services

5.2.1 The content of the basic steps on demand services is to implement consistent processes for automatic formation (on the side of the vehicle) SOS message about a traffic accident and transfer it to the infrastructure of the system "ERA-GLONASS" for further processing and communication to the ATC system, 112.

5.2.2 Request for basic services are to be initiated by the speaker system and an emergency call in two ways: - initiating an emergency call manually by tapping the "Emergency Call" on the block user interface AC driver and / or passenger of the vehicle in an accident; - initiating emergency Call the automatic triggering the AU.

5.2.3 At the time of the initiation of an emergency call, regardless of the method of initiation is automatic generation of a minimum set of data on road traffic accidents to be transmitted as part of an SOS message, the AU. As part of MND include information about the coordinates and parameters of the vehicle and the time of the accident, VIN- code of the vehicle, as well as other information necessary for emergency response. Requirements for the structure and composition of the MND established in [IEC 54620](#) (Annex B).

5.2.4 Transfer specials AU carried out after registration speakers in the network of mobile radio communication (see 5.3.2).

5.2.5 An emergency call is transmitted using a member of the AU tone modem, the requirements for which are set to [IEC 54620](#) (Section 8.6).

5.2.6 When an emergency call is to establish a voice connection with the AU CGS system "ERA-GLONASS" and transfer within the established connection the minimum set of data on

road traffic accidents in the emergency broadcast speakers.

5.2.7 The procedures for initiating requests for manual and automatic modes, as well as the general requirements for the AU on the regime of "Emergency Call", depending on the category of the vehicle and used variant of embodiment speakers [in the regular configuration (built-in) equipment or additional configuration equipment] are set out in [IEC 54620](#) (Section 7).

5.2.8 An emergency call system "ERA-GLONASS" is transmitted to the nearest vehicle on which the speakers switching center operator mobile telephone communications via the base station which took the call, via a mobile network GSM, UMTS. Note - switching centers operators of mobile radio communications are located in the administrative centers of the Russian Federation.

5.2.9 The MSC operator of mobile radio communications commutes voice connection with a regional switching node system "ERA-GLONASS", located in the same administrative center of the Russian Federation.

5.2.10 In an unsuccessful attempt to send an SOS message, the AU through the use of a modem dial an emergency message is sent to the system operator "ERA-GLONASS" via SMS-messages.

5.2.11 Requirements for the composition and format of the data transmitted in the emergency broadcast system operator AS "ERA-GLONASS", set in the [IEC 54619](#) and [IEC 54620](#).

### 5.3 Providing access to basic services

5.3.1 Provision of access to basic services is spaced in time and the process is carried out in two stages: Stage 1 - providing unconditional access; 2nd stage - providing access to the results of determining the truth of the request for the provision of basic services.

5.3.2 Provide unconditional access to the service is carried out by means of the procedure of registration of the AU in GSM and UMTS operators of mobile radio communications. Joined AU occurs at the time the emergency call initiated manually (by pressing the "Emergency Call" on the block user interface AC) or automatic activation speakers. Procedure, conditions and registration regimes AU in networks of mobile radio telephone installed in [IEC 54620](#) (Section 7).

5.3.3 Procedure for access to basic services system "ERA-GLONASS" on the results of the query to determine the truth of it is in the filter providing contact center system "ERA-GLONASS" in order to avoid false alarms to avoid unnecessary facts attraction of resources emergency field services and is implemented in the manner set out in 5.4.

#### 5.4 Provision of basic services to the system operator "ERA-GLONASS"

5.4.1 Operator "ERA-GLONASS" responsible for organization of the reception and processing, including filtering, emergency messages AU, preparation thereof, and through the use of additional information, emergency notification system, "ERA-GLONASS" and bringing them to the centers Call System-112. Implementation of these tasks by the system operator "ERA-GLONASS" is implemented using software and hardware and infrastructure systems "ERA-GLONASS".

5.4.2 Created and sent to the AU specials enters the regional switching node system "ERA-GLONASS". Upon receipt of the regional switching node sends a confirmation speakers.

5.4.3 The Specials AU adopted a regional switching node is sent to the appropriate (by territory), navigation and information center of the system "ERA-GLONASS" (SIC level 2), which carried out its decoding, reformatting, and storing data with the assignment of a unique reference identifier post. Based on information contained in the report, calling card is formed and implemented its transfer to filter the contact center system "ERA-GLONASS" serving the subject of the Russian Federation, within whose territory the accident. Fixed voice channel of communication with the vehicle is also communicated (redirected) to the specified filter contact center system "ERA-GLONASS".

5.4.4 Operator filter contact center using the established voice connection with the vehicle evaluates the accuracy of the request for the provision of basic services, specifying the persons in the vehicle, the actual need for emergency assistance.

5.4.4.1 Operator filter contact center recognizes the call (service request) to be false, if in the course of the survey of the occupants of the vehicle determined that emergency assistance is needed.

5.4.4.2 In recognition of the service request filtering false statement contact center prohibits further disclosure in the ATC system and the 112-voice connection with the vehicle

stopped. Information about the wrong call on which initiated the service request is sent to the database of the Federal Navigation and Information Centre (SIC level 1) for its archiving.

5.4.4.3 A service request is recognized by the operator filter the contact center to be true if: - based on analysis of information provided by the operator filter the contact center over the voice channel connection when interviewing persons in an emergency vehicle, found that emergency aid the driver and / or occupants of the vehicle is really needed; - no voice connection to the vehicle and made the filter operator call center attempts to recover it were unsuccessful.

5.4.4.4 In recognition of the filtering operator call center service request true as possible complement to the full data set is placed in a database navigation and information center.

5.4.5 Operator filter contact center has to make maximum use of the functionality of both SA and Systems "ERA-GLONASS" \* in general to obtain the necessary information about the circumstances of the incident and determine whether false / true incoming request for the provision of basic services.

\* The text of the document to the original. - Note the manufacturer's database. Note - The order of operator CCF call processing and applied to this decision rule for finding the truth / falsity of requests for service are reflected in the regulations of the filter contact center system "ERA-GLONASS" to execute the function call .

5.4.6 On the basis of additional information obtained in the "ERA-GLONASS", formed a complete set of data about an incident that is placed in a database navigation and information center, in which the request for the provision of services. The composition of the IPA is given in Appendix A.

5.4.7 In the navigation and information center based on the full data set of the incident is the formation of an emergency announcement system "ERA-GLONASS", which takes into account the established order and sent to the interactive ATC-112 system with the assignment post a brief reference identifier. Simultaneously with the transfer of emergency announcement system "ERA-GLONASS" is provided perekommutatsiya (transmission) on the ATC-112 systems installed voice connection with the emergency vehicle (if such a connection has been established).

5.4.8 Navigation and Information Centre also provides publication of the complete data set generated by the incident and e-cards with the place of the accident on a special web portal system "ERA-GLONASS" operating at the Federal navigation and information center (SIC level 1) to providing back-up access to data about the incident on-duty dispatchers from the emergency services involved more events on the response. Access to this information is provided by a brief reference identifier brought to the on-duty dispatchers by telephone.

5.4.9 The results of responses by enrolling in post-emergency 112 system "ERA-GLONASS" is brought through the ATC-112 system, in which it was received, in the navigation and information center (SIC level 2) of the system "ERA-GLONASS" that produced the specified message.

5.4.10 On the basis of information received from the ATC-112 system information about the results of responding to an emergency call in the aftermath of the accident Navigation and Information Centre (SIC level 2) ensures the transfer of all the information on this call from the database of the center to the archive the database of the Federal navigation and Information Centre (SIC level 1).

## 5.5 Documenting and archiving of data on service

5.5.1 Documentation of current data about the queries and the results provide basic services system "ERA-GLONASS" imposed on navigation and information center (SIC level 2) in which these requests are received. Documentation of these data is in electronic form.

5.5.2 Archiving of data on the performance of the system "ERA-GLONASS" to provide basic services rests with the Federal navigation and Information Centre (SIC level 1).

## **Annex A (normative). The composition of the complete data set to be included in the emergency message system "ERA-GLONASS"**

### Annex A (normative)

A.1 A unique reference identifier (call).

A.2 Brief reference identifier (call).

A3 telephone subscriber number automotive systems call emergency services.

A4 date (day / month / year) and time (hour / minute / s) start of the call (up to a few seconds.)

A.5 Language of communication with the applicant services.

A6 Condition voice contact with persons in the vehicle.

A7 ID victims in the presence of the vehicle (TC).

A8 contact telephone number of the applicant (mobile / home).

A9 Name applicant.

A.10 The minimum set of data relating to the call; \*

\* Type Requirements and units of measurement data included in the MND, set in [IEC 54620](#) (Annex B).

- ID specials AU;
- the type of activation specials AS ( automatic / manual),
- the type of call (test / emergency)
- coordinates of the TS;
- the type of vehicle;
- the identifier TA [\[5\]](#) ;
- the type of vehicle energy source;
- the time of the event;
- latitude of the vehicle at the time of the event;
- longitude location TC at the event;
- vehicle direction;
- a latitude difference at time N-1,
- the difference in longitude coordinate at time N-1,
- the difference between a latitude on the time N-2,
- the difference coordinates longitude at time N-2;
- the number of passengers in the vehicle.

A.11 Data on the call processing in FCC:

- Name of FCC;
- operator FCC;
- external telephone number CCF;
- Name FCC statement.

A.12 The address information about the location of vehicle in the text.

## **Bibliography**

- [1] Resolution of the Government of the Russian Federation of November 21, 2011 N 958 "On the system of providing call emergency services on a single number" 112 "
- [2] Technical regulation on safety of wheeled vehicles , as approved by the Government of the Russian Federation of September 10, 2009 N 720
- [3] Government Decree of December 31, 2004 N 894 "On approval of the list of emergency services, which call around the clock and free the operator is obliged to provide to the users of telecommunications services, and the appointment of a single number call emergency services"
- [4] The Federal Law of July 7, 2003, "On the relationship between" N 126-FZ
- [5] ISO 3779:2009 \* Road vehicles. The vehicle identification number (VIN). The content and structure  
(ISO 3779:2009) (Road vehicles - Vehicle identification number (VIN) - Content and structure)