Appendix № 1 to the Contract from «» year №
Lot number 1
TERMS OF REFERENCE deployment, assembly, installation, jointing and commissioning of products 83t099
1. The purpose of works on assembly, installation, docking 83t099 products - upgrading the product 65s30. 2. Objects of modernization: GTSKS № 1 (Module B, Chekhov); TTSKS № 8 (Irkutsk); TTSKS № 1 (Severomorsk); TTSKS № 7 (Novosibirsk). 3. List of items to be deployed at the facilities upgrade with the inclusion of their composition GUPS-420 and T-241PD equipment with the block pairing of AB-038 (second version included): product 83t605 (Module B) - (Chekhov); product 83t613 - (Irkutsk); product 83t609 - (Severomorsk); product 83t612 - (Novosibirsk).
4. Ongoing work:
Ne The Name of work 1. Survey sites (if necessary). 2. Acceptance facilities construction readiness for installation of products. 3. Development of design estimates for the installation of products 83t605 (Module B), 83t613, 83t609 83t612 and taking into account the technical means of the dismantling of the product 65s820 (GTSKS Ne 1, g.Chehov). List of technical resources for dismantling is determined from a survey of object. 4. Correction sets of design documentation (RCU) for the products 83t605, 83t613, 83t609 83t612 and taking into account the inclusion in their composition GUPS-420 and apparatus T-241PD with the interface block AB-038. 5. Dismantling of facilities from the product 65s820 (GTSKS number 1) in accordance with the PDS. 6. Installation of products in accordance with the design and estimate documentation (CAP) and the corrected design documentation. 7. Pre-commissioning and testing autonomous operation mounted products. 8. Conducting obektovyh SR preparation of necessary documents for products 83t605, 83t613, 83t609 83t612 and to the certification bodies as objects of EW EWT. 9. Initial training customer service representatives use the product's use. 10. Act of acceptance. Note: 1. Work on the assembly, installation, dock products are carried out: in accordance with the PDS and RKD designed for each object; post-construction training facilities of objects (in consultation with the troop units 52686 and 87406 is allowed to do these activities on a working CAP). 2. GUPS-420 and T-241PD supplied separately by the Customer. 3. Works include the cost of CPM for installation of products 83t099, as well as CPM deployment GUPS-420 and T-241PD (at full capacity products 83t099).
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TERMS OF REFERENCE

2 List of CFB-M

the organization of a fragment of a modernized system of data exchange (product 83t51M), input into the existing management system upgraded communications switching centers (SCC)

1. Purpose of work; functional test of the modernized communications switching centers (CFB-M) 83t51M products under real conditions of functioning and preparedness of their input into the existing system.

product 83t605 (Module B) - GTSKS-M № 1 (Module B, Chekhov);

83t607 product - GTSKS-M № 2 (bp Monino);

83t611 product - GTSKS-M № 3 (Module A, bp Hills);

83t613 product - TTSKS-M № 8 (Irkutsk);

83t609 product - TTSKS-M № 1 (Severomorsk);

83t610 product - TTSKS-M № 2 (Kaliningrad);

83t618 product - TTSKS-M № 9 (Vladivostok);
83t612 product - TTSKS-M № 7 (Novosibirsk).
3. The planned composition of the fragments 83t51M products in 2010:
fragment number 1 comprising: a product 83t0119, GTSKS-M № 2, GTSKS-M № 3 (Module A);
fragment number 2 consisting of: a product 83t0119, TTSKS-M № 2, TTSKS-M № 9;
Nº 3 piece consisting of: a product 83t0119, GTSKS-M № 1 (Module B), TTSKS-M № 7, TTSKS-M № 8.) Ch , Sev , Way
The main table at work on the organization of the fragments 83t51M articles:

formation of each CFB-M-based products and equipment 83t099 channel paths existing CFB - for GTSKS-M № 2, GTSKS-M № 3 (Module A), TTSKS-M № 2 and TTSKS-M № 9;

functional test of each CFB-M (including established in 2010), composed of fragments of products 83t51M;

input into the current system (a product 83t51M) of all CFB-M;

training and technical assistance personnel service operation.

5. List of works:

Nº The Name of work

In the first stage (part number 1)

- 1. Adopt a service manual disconnected from the existing products 83t51M CFB and CFB generate-M (Product and 83t607 83t611 (Module A), based on the product 83t099 and connect to the necessary equipment from the current (interrupted) CFB (GTSKS number 2 and GTSKS № 3 (Module A). Develop a table of concordance trunks (channels) for switching equipment channel paths for the products and 83t607 83t611 (Module A) and submit to the military unit 52686-A.
- 2. Run setup and check the functioning of autonomous formed CFB-M, and ensure their readiness for entry into the product 83t51M. Conducting obektovyh SR preparation of necessary documents for certification bodies as objects of EW EWT.
- 3. Together with the service operation to form a fragment consisting of: a control point "Fort", 83t607, 83t611 (Module A) on the structural and address tables (SAT), established by representatives of the Defense Ministry, and to ensure its functioning in accordance with established for CFB-M modes
- 4. Analysis, identification and removal of hardware and software (software) failures (errors) errors.

Presentation of a fragment of the commission of military unit 52686 (to conduct comprehensive inspections of functioning)

- 5. Take part in the conduct of comprehensive audits of functioning fragment Commission in / h 52686, in accordance with "Methods of upgrading switching centers 65s30 products by introducing product operation, 83t099", approved May 17, 2005 the commander of military unit 52686 and the program checks the functioning of the elements of the product 83t51M with elements 65s30 products, approved by Acting commander of military unit 52686. Eliminate observations (deficiencies).
- 6. Ensure the readiness of products and 83t607 83t611 (Module A) to input into the product 83t51M and reliable operation in all modes, provided documentation.
- 7. Provide technical assistance to the service manual input products and 83t607 83t611 (Module A) of the product 83t51M in accordance with "Methods of upgrading switching centers 65s30 products by introducing product operation, 83t099", approved May 17, 2005 the commander of military unit 52686 and the program checks functioning elements 83t51M product with elements of the product 65s30 ", approved by Acting commander of military unit 52686.
- 8. Make appropriate changes in composition of hardware and software products in the forms and 83t607 83t611.
- 9. Positive results of comprehensive inspections and operation of products 83t607 83t611 (module A) to perform the work of the second phase (part number 2)

In the second stage (part number 2)

- 10. Adopt a service manual disconnected from the existing products 83t51M CFB and CFB generate-M (Product and 83t610 83t608) based products 83t099 and connect to the necessary equipment from the current (interrupted) CFB (TTSKS number 2 and TTSKS number 9). Develop a correspondence tables trunks (channels) for switching equipment of channel paths for the products and 83t610 83t608 and submit to the military unit 52686-A.
- 11. Run setup and check the functioning of autonomous formed CFB-M, and ensure their readiness for entry into the product 83t51M
- 12. Perform work as outlined in paragraphs 3 through 8 in relation to products and 83t610 83t608.
- 13. Positive results of comprehensive inspections and operation of products 83t610 83t608 perform the work of the third stage (part number 3).

In the third stage (part number 3)

- 14. Adopt a service manual CFB-M (Product 83t605 (Module B), 83t609, and 83t612 83t613). Develop a table of correspondence between the means of new equipment channel paths and connect to trunks (channels), and submit to the military unit 52686-A. 15. Perform work as outlined in paragraphs 3 through 8 in relation to goods: 83t605 (Module B), 83t609, and 83t612 83t613. At all stages
- 16. Conduct initial training of personnel service operation on the device and operation of products.

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TERMS OF REFERENCE to maintain the readiness of BSOD, maintenance stand 65s30 products, 83t6-1, 83t7	
 Maintaining community stands products 65s30, 83t6-1, 83t7, repair and restoration of Carrying out maintenance in the amount of the annual then stands 65s30, 83t6-1, 83t7. Using the product stands 65s30, 83t6-1, 83t7 for training and technical assistance to of SOD, GSH SEI, Eighth management GSH, ONS Armed Forces, service manual for n software products. Analysis and modeling of the stands outside of situations in SOD ACS Forces, with re Maintenance work ISP stands. Participation in the commissioning of new and upgraded 4. Certification of software products on the 83t6-1. Participation in the tests in part to ensure the Information Technology conjugation sys 6. Issuance of baseline data and other materials for products and 65s30 83t51M on requirements. 	operational staff the control room operation ewly developed or upgraded technology or ecommendations service manual products. technology.
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Note: 1. Number of fragments can be increased to four.

TERMS OF REFERENCE on supervision izd.83t51M

1.Tsel works - improving the performance of elements of the product 83t51M and GENSAT.

2. Objects of modernization:

83t099 product, product and program 83t0119 GENSAT generator. Programe

3. Work carried out in accordance with the recommendations of the commissions appointed by order of the commander of military unit 52686, and offers maintenance services on the results of trial operation. Complex software tools upgraded products 83t099 delivered on all upgraded centers suite of software products 83t0119 - the product 83t601, GENSAT - a military unit 18008.

4. Ongoing work:

№ The Name of work

1. The implementation of products and 83t099 83t0119 unambiguous interpretation of input VSWR at the opening, the National Assembly, when connecting the CSA facilities management, etc.

2. Implementation of software and technical capabilities in the product output SAT 83t099 and database product 83t0119 printed on the agreed to by the military 52686-A 52686-O 18008 and SEI GSH forms

3. Translation of information about failures object, the communication format is HMS.

4. The exception in all forms, where there is information "the date, time, manual input" date "on the number of RM 3 and RM № 4 83t601 products without the use of' calendar "

5. Displays a status table ASC and EDV in the "SOC" the following characteristics: Center logically unavailable - "A";

Center defective less than 15 minutes - "H";

Center defective more than 15 minutes - "X".

6. The implementation of security features in the RM product 83t601 chime when you receive a message (NLF IWW messages, to change the states of the centers).

7. Displays a status table ASC and EDV values overflows into categories of urgency for each direction of communication, as well as provide operational ASC lights outside the system.

8. The implementation of the generator of passwords and keys operators 83t601 products and upgraded centers.

9. The product is 83t601 in the state table of means for CEB and CFB-M time and date specified in a single format.

10. The product is 83t601 in the state table lines ASC and MLC "in coordination with the military unit 52686-O to increase the line spacing and distance between groups of lines associated with the maintenance of the entire table display on the screen.

11. The implementation opportunities sampling control objects from the database on the DNA (8 characters, CAO, LAO, HLW). 12. Implementation of synchronization RM № 3 № 4 and RM 83t601 products in the processing of information in the logs of requests adjustments, etc.

requests adjustments, etc.

13. Improvement of flow control kodogramm (change the mechanism of issuing bans on categories of urgency) and in the light of this revision of software in terms of choice of routes of transmission.

14. Refinement RKD-685 loop products to ensure optimal stocking spare parts.

15. Realization of the mapping of values (in agreement with the military unit 53686) of all parameters with possible changes in adjusting the conditions and characteristics of the VSWR, NA, or control objects in the table (form) input source setup data.

16. Implementation of the possibility of incorporating into the product 83t099 caps on the connector 2RMT14KPE (H) G1V1V used for troubleshooting, causing signal "unauthorized access".

17. Analysis of health products and 83t0119 83t099 (subject to work with T-241PD (T-240PD) submission of a feasibility study and statements to create products BZIP 83t51M.

18. Implementing a mechanism GENSAT automatic reassignment of control object while preserving its characteristics to the exclusion of the subscriber.

19. Implementing a unified mechanism GENSAT calculate checksums for database products and upgraded 83t601 centers.

20. The table status control HC and HNC CFB (T9) on the product 83t0119: order numbering CFB ascending double digits;

provide dynamic color change when changing the state Assembly.

21. Analysis and presentation of feasibility study in part: implementation of the mechanism GENSAT select multiple items tables and their subsequent disposal; media replacement functional software with more modern;

synchronization of information between the RM and RM № 3 № 4 83t0119 products on the local network;

backup database on the number of RM 3, RM № 4 products 83t0119; exception providing the information in hexadecimal code;

installation of remote jobs 83t605 products (modules "A" and "B") for management of the upgraded product 83t51M center №

1; installing panels measuring levels of signals transmission and reception channels at GUPS - 420 (Product and 83t601 83t605);

Manning GUPS-420 single ISP in the cell of DSP, power supply and control panel; Manning APP products and 83t601 83t605 system unit, staffed by communication controller;

transfer drive to the right side of system units specialized CFM products and 83t601 83t605;

installation of light indication of unauthorized access to racks and products 83t099 83t0119;

conservation of RM-122 for the operation of circuit blocks unauthorized access to equipment from the ZAS products 65s820;

installation on the number of RM 3 and RM № 4 products 83t601 visual display with wide screen; implementation at the number of RM 3 and RM № 4 products 83t601 operator, both from the keyboard, and with a graphic manipulator-type "mouse":

installation on the product 83t601 device documentation A3; increase on the product 83t099 capacity data channels to 72;

a stencil prepared with variable variable in forming part of the corrective orders; rapid formation of status messages hardware products 65s820, 65s834 with the issue in the main menu: regime change computers (DZ, D1, EZ, ET); carrying load of computer centers with an indication of the checksums, the time of loading; established mode of operation of computer centers.

22. Analysis and presentation of feasibility study in part: installation in a room where you installed the RM number 3 and number 4 products 831601 scoreboard communities to display the information in the form agreed to by the military 52686-A 52686-C; use of the product 831099 scoreboard communities to display the information displayed on the RM of the operator; implementation of product features 831601-based laptop with the ability to connect to any center.

23. Participation in audits performed by improvements in the organization of the fragment products 83151M.

24. Adjustment of ED and PD products 831601, 831602, 831603, 831605, 831606, 831607, 831603, 831601, 831611, 831612, 331613, 831614, GENSAT, in accordance with the work performed to upgrade products and 831099 8310119.

25. Manufacture of T3 sets KSPO (one set for the KMT and CD) and 13 sets of ED and the PD (including CD) to dispatch on objects 83151M products.

26. Manufacturing GENSAT 1 set and 1 set of ED and the PD with the mailing list in a / h 18008.

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TERMS OF REFERENCE

for the maintenance of spare parts, repair facilities, systems and process control systems, "Center" 65s820, 65s834, 65s965

Purpose of work:

Increase in terms of technical facilities, systems and process control systems, "Center" 65s820, 65s834, 65s965 by the quality of their maintenance and repair.

Ongoing work:

- 1. Carrying out repairs, maintenance and technical inspection of complex products 65s820, 65s834, 65s965, as well as its member facilities, carried out by calling the Customer field service products:
- 1. Military Unit 10926, Chekhov, Moscow region.;
- 2. Military Unit 69039, np Slides Rogachev, Moscow Region.:
- 3. Military Unit 29112, Sec Monino, Moscow region.;
- 4. Military Unit 15138, Severomorsk;
- 5. Military Unit 95154, Sec Krasnotorovka, Zelenograd district, Kaliningrad region.;
- 6. Military Unit 40283, Novosibirsk;
- 7. Military Unit 36728, Irkutsk, Russia;
- 8. Military Unit 20937, Vladivostok.
- 2. Upon completion of the work at the facility Artist takes notes on the form the product of the work performed, including the repair of the replaced parts (components), warranty information, distributed on the replaced device, and is two-sided act. Act is signed by representatives of the service operation and the Contractor shall be approved by commanders of military units and sealed with the official stamp.
- 3. Term departure teams of specialists for the objects of Moscow should not exceed 2 days, the Moscow region 3 days, other regions 5 days of receipt of the call.
- 4. Restoring health products must be achieved by repairing them directly in the field manual complexes using obektovyh ISP with their subsequent completion of the expense of basic spare parts. At the same NIC is responsible for:
- Participation in the work of re-examination (examination) of products in general, or their individual components;
- Implementation of agreed actions with the customer to address the observations and deficiencies identified in the acts of technical inspection of products on sites operating systems.
- 5. Defective removable media from the products sent in for repair services operating on the enterprise of the Contractor. Term repair faulty removable devices (including those of secrecy) in the enterprise Contractor shall not exceed 30 days from receipt for repair, enterprises subcontractors 60 days. Repaired at the plant NIC (accomplices) hardware Artist returns to the objects of exploitation or provides a base for spare parts supplies. Executor rests on delivery within the Moscow region (Moscow city and Moscow region) be repaired and refurbished portable devices.
- 6. For the repair of faulty removable from the product shall be obliged to deploy to the production area businesses special diagnostic equipment (stands control removable devices). In this case, at the Contractor shall:
- Maintenance of the bench equipment;
- Manufacture and storage media with the test programs check removable devices;
- Production, recording and storage of repair and technological documentation, necessary for the repair of removable devices;
- The acquisition of technological equipment, special devices and materials required for repairs of removable devices
- Maintaining a computer database containing information on complaints for repairs, repaired and sent to the objects of exploitation of removable devices.
- 7. The warranty on repaired at the plant NIC (accomplices) hardware (removable media) from the product should not be less than 12 months after repair.
- 8. Within the warranty period, Contractor at the request of the Customer or CAP MO by its own means and at their own expense within 10 days from the date of receipt of the claim must eliminate the defects and shortcomings in the repaired product, regardless of the causes of defects or differences in the determination of their origin.
- 9. The warranty period is specified on the form (passport) or a device certificate for a repaired removable device.
- 10. Warranty does not apply to parts and components, which replaced during the repair was made.
- 11. For the timely replenishment of removable parts and accessories in the obektovyh ISP (ISP-O) spent in the repair of the complexes, the Contractor deploys on the premises of the enterprise in the dry, heated rooms, equipped with burglar and fire alarm systems, basic spare parts products in accordance with the statements of the ISP. In this case, at the Contractor shall:
- Implementation of measures for the registration, preservation, maintenance, repair and replenishment of basic spare parts;
- Maintaining a computer database containing information about the presence, location and movement of elements of basic spare parts;
- Clarification (revision) formulations of basic spare parts as directed by the Customer;
- The purchase of spare parts to replace Non-Repair and expended for repairs to supplement the basic spare parts;
- An inventory of spare parts and basic preparation of proposals to write off the removable nodes;
- Deposit at the direction of Customer Non-Repair decommissioned devices for recycling;
- Preservation of basic spares and fire safety facilities;
- Maintaining temperature and humidity, and cleaning in warehouses.
- 12. Contractor must ensure that the contact phone number for communication services, operating systems with the dispatch service

Contractor for addressing the organization of operative repair and delivery of basic spare parts needed removable devices. In documents supplied with the equipment should be given information about the repair, the mark of acceptance of work VP MO and warranty periods.

- 13. Restores obektovyh ISP ("zero" position) must be carried out by the Contractor in a period of not more than 3 days, basic spare parts no more than 30 days.
- 14. All work performed by the Contractor shall be accepted by the military representative of the Defense Ministry.

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TERMS OF REFERENCE

for the maintenance of spare parts, maintenance, repair hardware products 83t51M

Purpose of work:

Maintaining community facilities 83t51M articles by quality of their maintenance and repair.

Ongoing work:

1. Carrying out repairs, maintenance and technical inspection of complex products 83t51M, as well as its member facilities, carried out by calling the Customer field service products:

Military Unit 10926, Chekhov, Moscow region.;

Military Unit 35527, Moscow;

Military Unit 69039, np Slides Rogachev, Moscow Region.; Crotha

Military Unit 34011, Kuznetsk-8, the Penza region.;

Military Unit 83069, Smolensk.

- 2. Upon completion of the work at the facility Artist takes notes on the form the product of the work performed, including the repair of the replaced parts (components), warranty information, distributed on the replaced device, and is two-sided act. Act is signed by representatives of the service operation and the Contractor shall be approved by commanders of military units and sealed with the official stamp.
- 3. Term departure teams of specialists for the objects of Moscow should not exceed 2 days, the Moscow region 3 days, other regions 5 days of receipt of the call.
- 4. Restoring health products must be achieved by repairing them directly in the field manual complexes using obektovyh ISP with their subsequent completion of the expense of basic spare parts (in terms of channel equipment). At the same NIC is responsible for:
- Participation in the work of re-examination (examination) of products in general, or their individual components;
- Implementation of agreed actions with the customer to address the observations and deficiencies identified in the acts of technical inspection of products on sites operating systems.
- 5. Defective removable media from the products sent in for repair services operating on the enterprise of the Contractor. Term repair faulty removable devices (including those of secrecy) in the enterprise Contractor shall not exceed 30 days from receipt for repair, enterprises subcontractors 60 days. Repaired at the plant NIC (accomplices) hardware Artist returns to the objects of exploitation or provides a basic spare parts (in terms of channel equipment) for supplies. Executor rests on delivery within the Moscow region (Moscow city and Moscow region) be repaired and refurbished portable devices.
- 6. For the repair of faulty removable from the product shall be obliged to deploy to the production area businesses special diagnostic equipment (stands control removable devices). In this case, at the Contractor shall:
- Maintenance of the bench equipment;
- Manufacture and storage media with the test programs check removable devices;
- Production, recording and storage of repair and technological documentation, necessary for the repair of removable devices;
- The acquisition of technological equipment, special devices and materials required for repairs of removable devices
- Maintaining a computer database containing information on complaints for repairs, repaired and sent to the objects of exploitation of removable devices.
- 7. The warranty on repaired at the plant NIC (accomplices) hardware (removable media) from the product should not be less than 12 months after repair.
- 8. Within the warranty period, Contractor at the request of the Customer or CAP MO by its own means and at their own expense within 10 days from the date of receipt of the claim must eliminate the defects and shortcomings in the repaired product, regardless of the causes of defects or differences in the determination of their origin.
- 9. The warranty period is specified on the form (passport) or a device certificate for a repaired removable device.
- 10. Warranty does not apply to parts and components, which replaced during the repair was made.
- 11. For the timely replenishment of removable parts and accessories in the obektovyh ISP (ISP-O) spent in the repair of the complexes, the Contractor deploys on the premises of the enterprise in the dry, heated rooms, equipped with burglar and fire alarm systems, basic spare parts products (in terms of channel equipment) in According to statements of the ISP. In this case, at the Contractor shall:
- Implementation of measures for the registration, preservation, maintenance, repair and replenishment of basic spare parts:
- Maintaining a computer database containing information about the presence, location and movement of elements of basic spare parts;
- Clarification (revision) formulations of basic spare parts as directed by the Customer;
- The purchase of spare parts to replace Non-Repair and expended for repairs to supplement the basic spare parts;
- An inventory of spare parts and basic preparation of proposals to write off the removable nodes;
- Deposit at the direction of Customer Non-Repair decommissioned devices for recycling;
- Preservation of basic spares and fire safety facilities;
- Maintaining temperature and humidity, and cleaning in warehouses.
- 12. Contractor must ensure that the contact phone number for communication services, operating systems with the dispatch service Contractor for addressing the organization of operative repair and delivery of basic spare parts (in terms of channel equipment) necessary removable devices. In documents supplied with the equipment should be given information about the repair, the mark of

acceptance of work VP MO and warranty periods.

- 13. Restores obektovyh ISP ("zero" position) must be carried out by the Contractor in a period of not more than 3 days, basic spare parts (in terms of channel equipment) not more than 30 days.
- 14. All work performed by the Contractor shall be accepted by the military representative of the Defense Ministry.

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