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Topic: 5C99 "Senezh" - an automated control system for anti-aircraft missile brigade (Read 8543 times)

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**5C99 "Senezh" - an automated control system for anti-aircraft missile brigade**

" : July 16, 2006 03:23:20 am"

5C99 Senezh (TU1.600.057)

anti-aircraft missile brigade automated control system

PURPOSE

The automated control system for the command post (KP) 5TS99 "Senezh" is intended for centralized automatic and automated control of combat operations by a group of air defense forces of mixed composition, equipped with all types:

- anti-aircraft missile systems (SAM) and anti-aircraft missile systems (SAM) (S-300P, S-300V, S-200V, S-200D, S-75, S-75M1, S-75M4, S-125, S -125M2);
- fighter interceptors (IP);
- radar means of the air defense forces.

ACS "Senezh" solves the tasks of putting an air defense group into combat readiness, targeting and targeting to air defense systems and systems for aerodynamic purposes, jammers, coordination of military operations of fire weapons; automated guidance of fighter aircraft for aerial purposes, safety control of flights of guided fighter-interceptors and their drive to airfields; integrated training of combat crews.

DEVELOPMENT AND PRODUCTION

Development - the equipment of the automated control system of the regiment (brigade) of the Senezh air defense air defense system was developed by the Peleng design bureau, Yekaterinburg.

Production - GPO "Vector", Yekaterinburg.

MODIFICATIONS

- 5C99E "Senezh-M" - 🤔
- 5S99M Senezh-M - 🤔
- 5S99M Senezh-M1 - 🤔
- 5S99M-1 "Senezh-M" -
- 5S99M-2 -
- 34L6 "Senezh-M1E" - export performance.

TECHNICAL DESCRIPTION

ACS 5S99 "Senezh" can function in two configuration options:

Full composition:

- cabin 26M6, a mobile combat control center (MPBU), for the operational management of air defense systems, air defense systems and single-player missiles - 1 unit;
- cabin 27M6, an additional combat control center (RPBU), to expand the technical capabilities of the ACS to manage the air defense and IA groups, organize a

- stationary command post (KP) on the basis of additional AWS - 1 unit;
- ED2hZO-T400 diesel power station with two 30 kW diesel generators and a built-in voltage converter for receiving 220 V 400 Hz power supply based on a Ural-43203 or KamAZ-4310 automobile - 2 units;
- a truck tractor of the Ural, KAMAZ type for transporting products 26M6 and 27M6 - 2 units;
- a radio station of the type R-997-1M "Shepherd" for receiving information from the IP - 1 unit;
- R-997-2M "Shepherd" type radio station for transmitting information on board an IP - up to 4 units.
- 46I6 "Rainbow-ME", command transfer station (SEC) on board fighter-interceptors - up to 3 units
- the equipment of the coordinate pick-up point (CPM) for processing primary information from radar stations of the reconnaissance and target designation of air defense systems (SAM) and the issuance of up to 5 units to the automated control system "Senezh";
- "PORI-M ", a set of automation equipment for the KSA of the radio engineering division to provide the Senezh automated control system with radar information - 1 unit;
- 5R662 / 5R663, a radio relay station for transmitting information to controlled objects via radio relay communication lines - up to 15 units.

Reduced composition:

provides the solution of operational control tasks of air defense systems, air defense systems and IA based on:

- cabin 26M6, a mobile combat control center (MPBU), for the operational management of air defense systems, air defense systems and single-player missiles - 1 unit;
- ED2hZO-T400 diesel power station with two 30 kW diesel generators and a built-in voltage converter for receiving 220 V 400 Hz power supply based on a Ural-43203 or KamAZ-4310 automobile - 2 units;
- a truck tractor of the Ural, KAMAZ type for transportation of 26M6 products - 2 units;

MAIN TACTICAL AND TECHNICAL CHARACTERISTICS

Range, km to 1600

The number of simultaneously processed air objects up to 120

Number of guided fire weapons:

- SAM and air defense systems up to 17 (up to 77 shooting channels)
- SP up to 6

The ability to receive radar information from all types of radar and air defense control systems

Deployment time, min:

- full strength up to 120
- reduced composition to 15

SOURCES OF INFORMATION


- S. Gagin, V. Korovin, A. Karpenko, R. Angelsky. SYSTEM-200. Equipment and weapons: yesterday, today, tomorrow No. 11.12 / 2003, 1-5 / 2004

- <http://pvo.guns.ru/asu/senezh.htm>

- <http://www.ausairpower.net/APA-Rus-ADCP-CP.html#mozTocId80347>

- <http://okb-peleng.ru/nashi%20razrabotki.html>



 Senezh-me.jpg (45.94 KB, 578x382 - viewed 301 times.)

Yary

General Moderator

Veteran

 Offline

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34L6 "Senezh-M1E"

automated control system for a group of air defense forces

PURPOSE

ACS 34L6 "Senezh-M1E" is intended for command and control operations by the Air Defense Forces group, equipped with all types of anti-aircraft missile systems (SAM), anti-aircraft missile systems (SAM), guidance of fighter-interceptors (IP) from the built-in system point of guidance (PN), as well as all types of radar means of the air defense forces.

TECHNICAL DESCRIPTION

Tasks to be solved:

- centralized alert grouping;
- reception, processing and display on the screens of workstations (AWS) of information about the air situation and the results of the actions of managed assets;
- receiving orders from a higher command post (KP) and issuing to the KP reports on the readiness and actions of guided fire weapons and guided fighters;
- automatic target allocation and the issuance of target designations for fire weapons for targets and bearings with the preservation of manual assignment (cancellation) capabilities with AWP;
- automated issuance of control commands to subordinate means and sources of radar information;
- control of guidance and drive of fighters to the landing aerodrome, solving navigational problems using radio control lines "Lazur-M", "Rainbow-SAZO - SPK-75";
- interaction with neighboring KP anti-aircraft missile regiments or KP fighter aviation regiments in ensuring coordination of actions of air defense systems, air defense systems and aviation;
- comprehensive and autonomous training of group calculations;
- documenting the work process and issuing reporting documents.

The equipment of the automated control system "Senezh-M1E" is located in 2 transported semi-trailers (cabs). The comfort of the personnel of the calculation during the operation of ACS is provided by the air conditioning, heating, ventilation system with protection against toxic, radioactive and bacteriological substances.

CONTENTS OF DELIVERY**Basic kit:**

1. Mobile control center (MPBU) 26M6 for operational management of air defense systems, air defense systems and single-player air defense - 1 unit;
2. Additional control center (ДПРУ) 27M6 for expanding the technical capabilities of the automated control system for managing the groupings of air defense missile systems and IA, the organization of a stationary command post (CP) based on additional workstation - 1 unit;

3. The power supply system ED2x30-400-1RA1M1 with two generators with a capacity of 30 kW each and a built-in voltage converter for receiving power supply 220 V 400 Hz - up to 2 units;
4. A truck tractor of the Ural or KAMAZ type for transporting products 26M6 and 27M6 - up to 2 units;
5. The trailer of auxiliary equipment PVO-1 - 1 unit;
6. The trailer of the auxiliary equipment PVO-2 - 1 unit;

Attached funds:

7. Radio relay station of type [5Я662](#) / [5Я663](#) / [66Я6Е](#) for transmitting information to controlled objects via radio relay communication lines - up to 15 units;
8. A radio station of the type [R-997-1M "Shepherd"](#) for receiving information from the IP - 1 unit;
9. A radio station of the type [R-997-2M "Shepherd"](#) for transmitting information on board an IP - up to 4 units;
10. Radio station [R-161A2M "Equator-3M"](#) - up to 1 unit;
11. Interfacing cabins 5F20E, 5F20ME - up to 15 units;
12. Coupling cab 52L6E - up to 2 units;
13. Control equipment for command radio control lines (AK KRU) - up to 1 unit;
14. Three-coordinate radar type 1L117 - 1 unit;
15. Three-coordinate radar type "Opponent-GE" - 1 unit;
16. Command transfer station on board fighter-interceptors of type 46I6 "Rainbow-ME" - up to 3 units;
17. The equipment of the coordinate pick-up point (PSK) for processing primary information from radar stations of the reconnaissance and target designation of air defense systems (SAM) and the issuance of up to 5 units to the automated control system "Senezh-M1E";
18. A set of automation equipment for KSA of a radio engineering unit of [the PORI-M type](#) to provide ACS Senezh-M1E with radar information - 1 unit.

Reduced composition:

Provides a solution to operational control tasks of air defense systems, air defense systems and IA based on the mobile version of the KP:

1. Mobile control center (MPBU) 26M6 for operational management of air defense systems, air defense systems and single-player air defense - 1 unit;
2. The power supply system ED2x30-400-1RA1M1 with two generators with a capacity of 30 kW each and a built-in voltage converter for receiving power supply 220 V 400 Hz - 1 unit;
3. A truck tractor of the Ural or KAMAZ type for transporting the 26M6 product - 1 unit.

TACTICAL AND TECHNICAL CHARACTERISTICS

Range, km to 1600

The number of simultaneously processed air objects up to 120

Number of guided fire weapons:

- SAM and air defense systems up to 17 (up to 77 shooting channels)
- IP (group IP) up to 6

The ability to receive radar information from all types of radar and ACS PV.

Deployment time, minutes:

- full strength, hours up to 120
- reduced composition (mobile version of KP) to 15

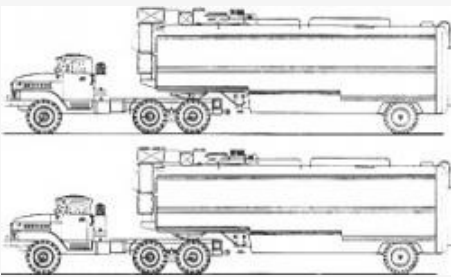
SOURCES OF INFORMATION

- OAO UPP "Vector"
- <http://okb-peleng.ru/nashi%20razrabotki.html>

Model of automated control system of the Senezh-M1E anti-aircraft missile regiment,

© Said Aminov:

- in the foreground the control and communication cabin 27M6,
- on the rear mobile command post 26M6



26M6 and 27M6 ACS Senezh.jpg (22.02 KB, 295x176 - viewed 699 times.)



34L6 Senezh-M1E Basic kit Said Aminov Vestnik PVO.jpg (338.01 KB, 768x508 - viewed 1243 times.)



34L6 Senezh-M1E Basic kit 36M6 27M6 DES Said Aminov Vestnik PVO.jpg (399.75 KB, 768x417 - viewed 785 times.)

Last Edit: October 23, 2012 05:26:43 pm by Yary

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Do what you must, and whatever happens ...

Yary
 General Moderator
 Veteran
 ★★★★★
 Offline
 Posts: 2337



Re: 5C99 "Senezh" - an automated control system for anti-aircraft missile brigade
 " Answer # 2: October 07, 2012, 04:29:57 pm"

Inside the cabin MPBU 26M6.

Quote: halmiso on October 28, 2012, 07:30:42 pm

Quote: Yary on October 07, 2012, 04:29:57 pm

And to what, to which complex of ACS, RTV or ZRV are these photos related?

This is ASU Senezh



full-29508-26938-battle_mngmnt_old_01 wasfa simhq.com 1.jpg (185.82 KB, 1280x960 - viewed 960 times.)



full-29508-26939-battle_mngmnt_old_02 wasfa simhq.com 2.jpg (186.19 KB, 1280x960 - viewed 840 times.)



full-29508-26940-battle_mngmnt_old_03 wasfa simhq.com 3.jpg (53.26 KB, 453x604 - viewed 811 times.)

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Do what you must, and whatever happens ...