Approved by the order of the Chairman of Azerbaijan Caspian Shipping Closed Joint Stock Company dated 1st of December 2016No. 216.

**AZERBAIJAN CASPIAN SHIPPING CLOSED JOINT STOCK COMPANY**

**IS ANNOUNCING TWO STAGE OPEN BIDDING FOR THE PROCUREMENT OF PERIODIC ANNUAL REPAIR AND MAINTENANCE SERVICES OF AUTOMATION AND ELECTRONICS SYSTEMS ON BOARD THE VESSELS**

 **Bidding No. 097/2022**

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|  | **The bidding will be held in two stages. In the first stage, technical proposals will be considered and the procedure for determining the qualification eligibility of the applicants will be carried out and only the applicants who are considered technically qualified and received an official invitation by ASCO to the second stage will be allowed to participate in the second stage. Documents to be submitted for participation in the first stage of the bidding (excluding the price quotation):*** Application for participation in the bidding (template has been attached hereto);
* Bank evidence as a proof of participation fee;
* The Certificate of recognition issued by the “Russian Maritime Register of Shipping in Azerbaijan” LLC;
* The certificate of recognition issued by the State Marine Administration of the Republic of Azerbaijan;
* Reference on vehicles in balance or in use, as well as availability of necessary special clothing;
* Reference on work experience in the relevant field (including any official information confirming work experience (copies of contracts, etc.) and letters of recommendation received from clients, if any);
* Certificate evidencing number of personnel, employee qualification (at least 5 documents identifying labor contract notification and conformity of qualification – including diplomas, certificates, licenses, etc.);
* Information on technical capabilities (information on available technical facilities and equipment – documents on the ownership of each edifice on rental or any other basis, as well as technical manuals of the facilities and equipment shall be submitted. Moreover, the facilities and equipment shall be certified and calibrated as determined by the relevant authorities);
* Audited accounting balance or tax return (approved by tax authorities);
* Reference from relevant tax authorities on the absence of tax indebtedness;
* Statement issued by the relevant tax authorities on the absence of expired commitments associated with taxes and other compulsory payments and failure of obligations set forth in the Tax Code of the Republic of Azerbaijan for the last one year (excluding the period of suspension);
* Bank statement of the contractor's financial status during the last 1 (one) year;
* Articles of Association (including all amendments and changes thereto);
* Excerpt from the Registry (issued within the last 1 month);
* Certificate of Tax Payer`s Identification Number

At the initial stage, the documents reflected above and the application for participation in the bidding ( signed and stamped) and bank evidence proving payment of participation fee (excluding bidding price offer) shall be submitted in English, Russian or in Azerbaijani languages to the official address of "Azerbaijan Caspian Shipping" CJSC (hereinafter referred to as "ASCO" or "Procuring Organization") or email address of contact person in charge by **17.00** Baku time on **June 20, 2022**.   Description (list) of the services has been attached hereto.  |
|  | **The participation fee and Collection of General Terms and Conditions:*** Any participant (bidder), who desires to participate in the bidding, shall pay for participation fee stated below (the payment order shall necessarily state the name of the organization holding open bidding and the subject of the bidding) and shall submit the evidence as a proof of payment to ASCO not later than the date stipulated in section one. All participants (bidders), who have fulfilled these requirements, may obtain General Terms and Conditions on the Bidding relating to the procurement subject, from the contact person in charge on the same day at any time from 09.30 till 17.30 at any business day of the week.
* Participation fee amount (VAT excluded): **AZN 100 (hundred)**
* The participation fee may be paid in AZN or equivalent amount thereof in USD or EURO.
* ***Account No. :***

|  |  |  |
| --- | --- | --- |
| AZN | USD | EURO  |
| Name: The International Bank of Azerbaijan ABB- Customer Service DepartmentCode: 805250TAX ID: 9900001881Correspondent account: AZ03NABZ01350100000000002944SWIFT: IBAZAZ2XBeneficiary: AZARB.XAZAR DANIZ GAMICILIYI QSCTAX ID: 1701579951Account No. (AZN): AZ36IBAZ38050019441115341120 | Intermediary Bank: Citibank N.Y, New YorkAcc.36083186, SWIFT: CITIUS33Beneficiary Bank: The International Bank of AzerbaijanIBA- Customer Service DepartmentSWIFT: IBAZAZ2X Nizami str., 67Beneficiary: AZARB.XAZAR DANIZ GAMICILIYI QSCTAX ID: 1701579951Account No.: AZ26IBAZ38150018401115341120 | Intermediary Bank: Commerzbank AG, Frankfurt am MainSWIFT: COBADEFFACC # 400 88 660 3001Beneficiary Bank: The International Bank of Azerbaijan,IBA-Premier Customer ServiceSWIFT: IBAZAZ2X Nizami str., 67Beneficiary: Azerbaijan Caspian Shipping CJSCTAX ID: 1701579951Account No.: AZ06IBAZ38150019781115341120 |

* **In no case shall the participation fee be returned back !**
 |
|  | **Warranty for the performance of contractual obligations*** Contract performance bond is required in the amount of 5 (five) % of the purchase price.

**Contract Performance Term:*** The services are supposed to be purchased within one (1) year from the date of conclusion of the service agreement.
 |
|  | **Final deadline date and time for submission of the bidding offer:*** Documents for stage shall be submitted to ASCO in a double envelope signed and stamped (both sides of the envelope shall be signed and stamped) by **17.00** Baku time on **08 July 2022.**
* All bidding offer envelopes submitted after the above-mentioned date and time shall be returned unopened.
 |
|  | **Address of the procuring company:**The Azerbaijan Republic, Baku city, AZ1003 (postcode), 2 Neftchilar Avenue, Procurement Committee of ASCO. **Contact person in charge:**Rahim Abbasov, Procurement Specialist of the Procurement DepartmentTelephone No.: +99450 2740277Email address : rahim.abbasov@asco.az, tender@asco.az **Contact person on technical issues:**Leyla Huseynova, Lead Engineer on the Ship repair of the Fleet Technical Operation DepartmentTelephone No.: +99455 9999302Email address: leyla.huseynova@asco.az **Contact person on legal issues:**Landline No.: +994 12 4043700 (ext: 1262)Email address: osman.valiyev@asco.az;  |
|  | **Date and time assigned for the opening of bidding offer envelopes:**Opening of envelopes of the first stage will take place on **July 11, 2022** at the address specified in section V of this Announcement. In the first stage, ASCO reserves the right to exclude participants with a serious deficiency in their documentation. ASCO may, at its sole discretion, make further requests for the submission of incomplete documents. Participation of bidders the in the opening of envelopes for the first stage is not intended. Applicants who have successfully passed the technical assessment and expected to receive a formal invitation to stage II for the submission of price quotation may participate in the opening of the envelopes containing the bidding offer (quotation) at the time reflected in the invitation letter sent by ASCO. Details of how to participate will be reflected in the official invitation.  |
|  | **Information on the winner of the bidding :**Information on the winner of the bidding will be posted in the "Announcements" section of the ASCO official website.  |

(On the participant's letter head)

APPLICATION FOR PARTICIPATION IN

THE OPEN BIDDING

\_\_\_\_\_\_\_\_\_\_\_ city “\_\_”\_\_\_\_\_\_\_20\_

\_\_\_\_\_\_\_\_\_\_\_№

To the attention of the Chairman of ASCO Procurement Committee

Mr Jabrail Mahmudlu

We, hereby confirm the intention of [ to state full name of the participant ] to participate in the open bidding No. [ bidding No. shall be inserted by participant ] announced by ASCO in respect of procurement of "\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_" .

Moreover, we confirm that no winding - up or bankruptcy proceeding is being performed or there is no circumstance of cessation of activities or any other circumstance that may impede participation of [ to state full name of the participant ] in the stated bidding.

In addition, we warrant that [ to state full name of the participant ] is not an affiliate of ASCO.

Below-mentioned contact details are available to respond to any question that may emerge in relation to the documents submitted and other issues:

* Contact person in charge:
* Position of the contact person:
* Telephone No.:
* E-mail:

Attachment:

1. Original of the bank evidence as a proof of payment of participation fee – \_\_ page(s).

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(initials of the authorized person) (signature of the authorized person)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 (position of the authorized person)

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 **LIST OF SERVICES:**

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| **Installation, maintenance and maintenance of electronics and automation equipment on board the vessels** |
| ***Item no*** | ***Nomination of works*** | ***current repair***  ***hours*** | ***overhaul***   ***hours*** | ***current repair***   ***value***  ***(in manats)*** | ***overhaul*** ***value******(in manats)*** |
|  | ***4.1.- T i m e A l l o w a n c e s*** |  |  |  |  |
| ***1*** | ***Main chart. Design, development of drawing*** |  |  |  |  |
| ***2*** | ***Pressure relay Replacing with local pressure or thermal relay*** |  |  |  |  |
| ***3*** | ***Indicating instrument. Operational Check. Replacement*** |  |  |  |  |
| ***4*** | ***Element of the automatic control and regulation system (non-contacting and contacting***   ***"increase - change", direction indicating instrument). Functioning check*** |  |  |  |  |
| ***5*** | ***Electronic circuit board (card) Fault detection*** |  |  |  |  |
| ***6*** | ***Parts of the circuit board. Fault detection*** |  |  |  |  |
| ***7*** | ***Radio element manufactured abroad. Replacing that part with a local analogue*** |  |  |  |  |
| ***8*** | ***Winding for contact switch, selector switch, relays, and other electrical appliances. Winding.*** |  |  |  |  |
|  | **4.2.1—M a i n e n g i n e o p e r a t i n g s y s t e m**  |  |  |  |  |
| ***9*** | ***Main engine (1 ME) operating system of derrick barge "Azerbaijan"***  |  |  |  |  |
| ***10*** | ***Main engine (1ME) operating system of the derrick barge "Atlet", firefighting ship "Vikhr" and tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***11*** | ***Main engine (1ME) operating system of the motor vessel "Bunkerovshik" and crane ship "Taman"***  |  |  |  |  |
| ***12*** | ***Heavy fuel viscosity control system of the tug-supply vessels*** |  |  |  |  |
| ***13*** | ***Heavy fuel viscosity control system of the "PSK" type passenger vessel*** |  |  |  |  |
| ***14*** | ***The electronic gauge system of the main engine rotational frequency of the tug—supply vessel "Aura, passenger vessels "Titan" and "Sabit Orujov" and pipe laying vessel "Israfil Huseynov".*** |  |  |  |  |
| ***15*** | ***The system designed for controlling the oil vapor generated in the main engine crankcase of the derrick barge "Atlet"*** |  |  |  |  |
| ***16*** | ***The system designed for controlling the oil vapor generated in the main engine crankcase of the "PSK" type passenger vessel*** |  |  |  |  |
| ***17*** | ***The operating system of the main diesel engine centralized cooling system of the derrick barge "Atlet"***  |  |  |  |  |
|  | **4.2.2. - C e n t r a l i z e d g a u g e a n d c o n t r o l s y s t e m** |  |  |  |  |
| ***18*** | ***"СРS -2" type centralized control and registration system for measurable indicators of the crane vessel "Atlet"*** |  |  |  |  |
| ***19*** | ***"SACO" type centralized control and registration system for main engine measurable indicators of the tug—supply vessel "Aura" and tug—supply vessel "Nercha"******.*** |  |  |  |  |
| ***20*** | ***"АЛСИ-8" type centralized control and registration system for measurable indicators of the tug—supply vessel "A. Gulmammadov"*** |  |  |  |  |
| ***21*** | ***Remote gauging system of the power plant and auxiliary machinery indicators of the motor vessel "Bunkerovshik"******.*** |  |  |  |  |
| ***22*** | ***The centralized control and registration system for measurable indicators of the "Vikhr" type firefighting vessel***  |  |  |  |  |
| ***23*** | ***The centralized control and registration system for main engines measurable indicators of the tug—supply vessel "Neftegas"******.*** |  |  |  |  |
| ***24*** |  **The centralized control and registration system for diesel generators measurable indicators of the tug—supply vessel "Neftegas" .**  |  |  |  |  |
| ***25*** | ***The centralized control and registration system for measureable indicators of rudder gear controllable-pitch propeller of the tug - supply vessel "Neftegas"******.*** |  |  |  |  |
| ***26*** | ***The centralized control and registration system for measurable indicators of bilge water and ballast system valve operating system of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***27*** | ***"Stringer" type control, measurement, and alarm system of the pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
|  | **4.2.3 – E m e r g e n c y a l a r m a n d w a r n i n g s y s t e m a n d g e n e r a l a l a r m s y s t e m** |  |  |  |  |
| ***28*** | ***Emergency alarm and warning system of the power plant unit, machinery, and systems of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***29*** | ***Emergency alarm and warning system of the power plant unit of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***30*** | ***Emergency alarm and warning system of the power plant unit of the crane vessel "Atlet", firefighting ship "Vikhr" and tug—supply vessel "Neftegas" (1 engine)*** |  |  |  |  |
| ***31*** | ***Emergency alarm and warning system, manufactured by "Stromberg" company, of the main engines and auxiliary machinery of the tug-supply vessels "Aura" and "Nercha"*** |  |  |  |  |
| ***32*** | ***Emergency alarm and warning system of the power plant unit of the tug-supply vessels "Aura" and "Nercha"*** |  |  |  |  |
| ***33*** | ***Emergency alarm and warning system of the main engines of the motor vessel "Bunkerovshik" and crane ship "Taman"*** |  |  |  |  |
| ***34*** | ***Emergency alarm and warning system of the auxiliary diesel generators (3 DG) of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***35*** | ***МХ-5 "Аутроника" type exhaust gas temperature control system of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***36*** | ***Temperature control and "Аутроника" type emergency alarm and warning system of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***37*** | ***КВ-5 "Аутроника" type group alarm system of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***38*** | ***General alarm system of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***39*** |  ***General alarm system of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***40*** | ***Onboard alarm system of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
|  | **4.2.4- A u x i l i a r y , e m e r g e n c y d i e s e l g e n e r a t o r s o p e r a t i n g s y s t e m , M a i n D i s t r i b u t i o n B o a r d a n d E m e r g e n c y S w i t c h b o a r d** |  |  |  |  |
| ***41*** | ***Operating system of the diesel generators (2 DG) of the crane vessel "Atlet"*** |  |  |  |  |
| ***42*** | ***Operating system and emergency alarm and warning system of the auxiliary diesel generators (2 DG) of the tug—supply vessels "Nercha" and "Aura"*** |  |  |  |  |
| ***43*** | ***Operating system of the auxiliary diesel generators of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***44*** | ***Operating system of the auxiliary diesel generator of the firefighting ship "Vikhr"*** |  |  |  |  |
| ***45*** | ***Operating system of the towing winch diesel generator of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***46*** | ***Operating system of the pulling device diesel generator of the pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
| ***47*** | ***Operating system of the anchor winch diesel generator of the pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
| ***48*** | ***Operating system of the auxiliary diesel generator of the crane vessel "Taman"*** |  |  |  |  |
| ***49*** | ***Operating system of the start—stop system of auxiliary diesel generators (3 units) of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***50*** | ***Operating system of the emergency diesel generators of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***51*** | ***Operating system of the emergency diesel generators of the crane vessel "Atlet" and firefighting ship "Vikhr"***  |  |  |  |  |
| ***52*** | ***Emergency and warning system of the emergency diesel generators of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***53*** | ***Operating system of the emergency diesel generators of the pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
| ***54*** | ***Emergency switchboard. Electronic part. Pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
| ***55*** | ***Emergency switchboard. Electronic part. Tug - supply vessel "Aura"*** |  |  |  |  |
| ***56*** | ***Main distribution board. Electronic part. Crane vessel "Atlet"*** |  |  |  |  |
| ***57*** | ***Main distribution board. Electronic part. Tug—supply vessels "Aura" and "Nercha"*** |  |  |  |  |
| ***58*** | ***Main distribution board. Electronic part. Pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
|  | **4.2.5 – O p e r a t i n g s y s t e m o f t h e a u t o m a t I c p i l o t s y s t e m a n d r u d d e r s y s t e m** |  |  |  |  |
| ***59*** | ***Operating system of the rudder gear of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***60*** | ***Pilot house operation desk of the crane vessel "Atlet" and firefighting ship "Vikhr"*** |  |  |  |  |
| ***61*** | ***Rudder gear operating system manufactured by " Radical Decca" company***  |  |  |  |  |
| ***62*** | ***Automatic pilot device operating, control and alarm system of the tug - supply vessel "A/Gulmammadov"*** |  |  |  |  |
| ***63*** | ***Pilot house operation desk of the tug—supply vessel "A.Gulmammadov"*** |  |  |  |  |
| ***64*** | ***Rudder gear operating system of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***65*** | ***Operating system of the electronic distribution equipment designed for energy supply of the rudder system of the tug—supply vessel "Neftegas" .*** |  |  |  |  |
| ***66*** | ***Automeatic remote operating system of the rudder gear of the tug—supply vessel "Neftegas"***  |  |  |  |  |
| ***67*** | ***Rudder gear operating system of the tug-supply vessel "Nercha"*** |  |  |  |  |
|  | **4.2.6 - O p e a r t i n g a n d a l a r m s y s t e m o f t h e c o n t r o l l a b l e p i t c h p r o p e l l e r** |  |  |  |  |
| ***68*** | ***Operating and alarm system of the controllable pitch propeller of the crane vessel "Atlet", firefighting ship "Vikhr" and tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***69*** | ***Operating system of the controllable pitch propeller of the tug—supply vessel "Aura*** |  |  |  |  |
| ***70*** | ***Alarm system of the controllable pitch propeller of the tug—supply vessel "Aura*** |  |  |  |  |
| ***71*** | ***Operating system of the clutch connecting controllable pitch propeller and reducer of the tug—supply vessels "Nercha" and "Aura"*** |  |  |  |  |
| ***72*** | ***Operating and alarm system of the controllable pitch propeller of the tug—supply vessel "A. Gulmammadov"*** |  |  |  |  |
| ***73*** | ***Automatic remote operating system of the propeller device manufactured by "MAPEL" company of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***74*** | ***Operating system of the "Seffle" type controllable pitch propeller of the tug—supply vessel "Nercha"*** |  |  |  |  |
| ***75*** | ***Alarm system of the controllable pitch propeller of the tug—supply vessel "Nercha"*** |  |  |  |  |
|  | **4.2.7— A u x i l i a r y t h r u s t d e v i c e o p e r a t i n g s y s t e m**  |  |  |  |  |
| ***76*** | ***Operating system of the auxiliary thrust devices of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***77*** | ***Operating system of the auxiliary thrust device of the crane vessel "Atlet".*** |  |  |  |  |
| ***78*** | ***Operating system of the auxiliary thrust devices of the tug—supply vessels "Nercha" and "Aura"*** |  |  |  |  |
| ***79*** | ***Operating system of the auxiliary thrust devices of the tug—supply vessel "Lyutoga"*** |  |  |  |  |
| ***80*** | ***EYS 63 type automatic remote operating system of the auxiliary thrust devices (located on the bow and stern) of the tug - supply vessel "Neftegas" and firefighting ship "Vikhr"***  |  |  |  |  |
|  | **4.2.8 - B o i l e r o p e r a t i n g s y s t e m**  |  |  |  |  |
| ***81*** | ***Operating system of the main and auxiliary steam boilers of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***82*** | ***Water level maintaining support and water salinity control system in the hot well tanks of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***83*** | ***Operating system of the steam boiler of the crane vessel "Atlet", firefighting ship "Vikhr" and tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***84*** | ***Water level maintaining support and water salinity control system in the hot well tanks of the crane vessel "Atlet", firefighting ship "Vikhr" and tug—supply vessel "Neftegas"***   ***.*** |  |  |  |  |
| ***85*** | ***Emergency alarm system in the incinerator of the of the crane vessel "Atlet", firefighting ship "Vikhr" and tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***86*** | ***Operating and alarm system of the steam boiler of the crane vessel "Aura" and "Nercha"*** |  |  |  |  |
| ***87*** | ***Remote automatic operating system of the boiler assembly of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***88*** | ***Operating system of the water heating boiler assembly of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***89*** | ***Automatic productivity adjustment system of the "ИR СК19" type exhaust boilers (2 boilers) of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***90*** | ***Indicators gauging and pressure adjustment system of the exhaust boilers (2 boilers) of the tug—supply vessel "Neftegas"******.*** |  |  |  |  |
| ***91*** | ***Operating and alarm system of the boiler in the rescue vessel "Taman"*** |  |  |  |  |
|  | **4.2.9 - F i r e a l a r m s y s t e m** |  |  |  |  |
| ***92*** | ***Fire alarm system of the crane vessel "Atlet", firefighting ship "Vikhr" and tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***93*** |  ***"ИСРР-10" type fire fighting station system of the crane vessel "Atlet", firefighting ship "Vikhr" and tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***94*** | ***Operating system of the liquid based fire extinguishing device of the crane vessel "Atlet", firefighting ship "Vikhr" and motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***95*** | ***SPSP20 E24 type fire alarm system of the tug—supply vessel "Aura***  |  |  |  |  |
| ***96*** | ***Machinery and equipment emergency stop system in case of fire of the tug—supply vessel "Aura”*** |  |  |  |  |
| ***97*** | ***"Gallon" type gas leaks remote control system of the fire extinguishing system of the tug—supply vessel "Aura"*** |  |  |  |  |
| ***98*** | ***Fire alarm system of the tug—supply vessel "A.Gulmammadov"*** |  |  |  |  |
| ***99*** | ***"BKZ" type fire alarm station of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***100*** | ***Operating system of the fire extinguishing muzzles of the firefighting ship "Vikhr"*** |  |  |  |  |
| ***101*** | ***ВХ-11 "Autronika" type fire alarm system of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***102*** |  ***SF ДИ-77 type fire alarm system of the tug—supply vessel "Nercha"*** |  |  |  |  |
|  | **4.2.10—O p e r a t i n g s y s t e m o f p u m p s, s e p a r a t o r s a n d v a l v e s** |  |  |  |  |
| ***103*** | ***Operating system of the waste water, bilge water and ballast pumps and valves of the derrick barge "Azerbaijan".*** |  |  |  |  |
| ***104*** | ***Operating system of the waste water, bilge water and ballast pumps and valves of the crane vessel "Atlet".*** |  |  |  |  |
| ***105*** | ***Operating system of separators of the derrick barge "Azerbaijan" and crane vessel "Atlet"*** |  |  |  |  |
| ***106*** | ***Operating system of the fuel pumps of the crane vessel "Atlet"*** |  |  |  |  |
| ***107*** | ***Operating system of the water supply pumps of the crane vessel "Atlet"*** |  |  |  |  |
| ***108*** | ***Operating system of the fire pumps of the crane vessel "Atlet"*** |  |  |  |  |
| ***109*** | ***Operating system of the boiler fuel pumps of the tug—supply vessel "Aura*** |  |  |  |  |
| ***110*** | ***Operating system of the overboard water pumps of the tug—supply vessel "Aura*** |  |  |  |  |
| ***111*** | ***Operating system of the fresh water pumps of the tug—supply vessel "Aura*** |  |  |  |  |
| ***112*** | ***Operating system of the vacuum pumps in the waste water system of the tug—supply vessel "Aura"*** |  |  |  |  |
| ***113*** | ***Operating system of the bottom and deck üater valves of the tug—supply vessel "Aura*** |  |  |  |  |
| ***114*** | ***Operating system of the diesel and heavy fuel separator of the tug—supply vessel "Aura"*** |  |  |  |  |
| ***115*** | ***Operating system of the lubrication oil separator of the tug—supply vessel "Aura"*** |  |  |  |  |
| ***116*** | ***Automatic operating system of drying in the engine room of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***117*** | ***Automatic operating system of reserve pumps of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***118*** | ***ИSPM101 type automation system of the WSA type pumps operatin system of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***119*** | ***ИSP K15 type operating system of the boiler pumps of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***120*** | ***ИSZ В15 type operating system of the bilge and ballast valves of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***121*** | ***Remote operating system of the drying - ballast system valves of the pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
| ***122*** | ***Operating system of separators and pumps of the tug—supply vessels "Nercha" and "Lyutoga"*** |  |  |  |  |
| ***123*** | ***ИАWP33.1 type operating system of the diesel oil separator of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***124*** | ***ИАWP33.2 type operating system of the boiler fuel separators (2 pcs) of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***125*** | ***ИАWP33.3 type operating system of the lubrication oil separators (2 pcs) of the tug—supply vessel "Neftegas"*** |  |  |  |  |
|  | **4.2.11 - O p e r a t i n g s y s t e m o f a i r c o n d i t i o n i n g e q u i p m e n t , v e n t i l a t i o n a n d c o m p r e s s o r s** |  |  |  |  |
| ***126*** | ***Operating system of the air conditioning and ventilation device of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***127*** | ***Operating system of air compressors of the Crane vessel "Atlet" and derrick barge "Azerbaijan"*** |  |  |  |  |
| ***128*** | ***Operating system of the air conditioning and ventilation device of the crane vessel "Atlet"*** |  |  |  |  |
| ***129*** | ***Operating system of air compressor of the tug—supply vessel "Aura*** |  |  |  |  |
| ***130*** | ***Operating system of air compressor of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***131*** | ***Operating system of air compressors of the firefighting ship "Vikhr"*** |  |  |  |  |
| ***132*** | ***Operating system of air compressor of the tug—supply vessel "Lyutoga"*** |  |  |  |  |
| ***133*** | ***Operating system of the air conditioning and ventilation device of the tug - supply vessel "Lyutoga"*** |  |  |  |  |
| ***134*** | ***Operating system of the air conditioning unit of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***135*** | ***Operating system of air compressor unit of the tug—supply vessel "Neftegas"*** |  |  |  |  |
|  | **4.2.12 - O p e r a t i n g s y s t e m o f t h e r e f r i g e r a t i n g u n i t s** |  |  |  |  |
| ***136*** | ***Operating system of the provision refrigerating unit of the derrick barge "Azerbaijan" and tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***137*** | ***Operating system of the provision refrigerating unit of the crane vessel "Atlet"*** |  |  |  |  |
| ***138*** | ***Operating system of the provision refrigerating unit of the derrick barge "Azerbaijan" and tug—supply vessel "Lyutoga"*** |  |  |  |  |
|  | **4.2.13 - O p e r a t i n g s y s t e m o f t h e b a t t e r y c h a r g i n g d e v i c e s , g e n e r a t o r p r o t e c t i o n d e v i c e a n d v o l t a g e r e g u l a t o r** |  |  |  |  |
| ***139*** | ***Operating system of "VARTA" type charging and distribution devices of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***140*** | ***Operating system of charging and distribution devices of the crane vessel "Atlet"*** |  |  |  |  |
| ***141*** | ***Operating system of charging and distribution devices of the tug—supply vessel "Aura"*** |  |  |  |  |
| ***142*** | ***АКАУ 24/100 type automatic vessel battery assembly of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***143*** | ***Operating system of automation systems supply of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***144*** | ***Operating system of the R CO1A/B type thyristor charging device of the firefighting vessel "Vikhr"*** |  |  |  |  |
| ***145*** | ***Operating system of the AR-35 type generator protection unit of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***146*** | ***АК-38 "Аутроника" type voltage and frequency control system of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***147*** | ***АК-31, АК-32 "Аутроника" type automatic electric voltage and frequency control system of the tug-supply vessels "Nercha" and "Lyutoga"*** |  |  |  |  |
| ***148*** | ***The system of automated control over the resistance of insulation of power circuit of the tug—supply vessel "Nercha"*** |  |  |  |  |
| ***149*** | ***Operating system of charging and distribution devices of the tug—supply vessel "Nercha"*** |  |  |  |  |
| ***150*** | ***UZPS 13 type operating system controlling automation system energy supply of the tug—supply vessel "Neftegas"*** |  |  |  |  |
|  | **4.2.14 - O p e r a t i n g s y s t e m o f t h e e l e c t r i c a l p o w e r p l a n t s , t e l e p h o n e c o m m u n i c a t i o n u n i t s a n d e n g i n e r o o m t e l e g r a p h** |  |  |  |  |
| ***151*** | ***Operating system of the electric power plants of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***152*** | ***Operating system of the electric power plants of the crane vessel "Atlet"*** |  |  |  |  |
| ***153*** | ***Operating system of the telephone communication units of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***154*** | ***Automated telephone communication system of the crane vessel "Atlet", firefighting ship "Vikhr" and tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***155*** | ***Battery-free telephone communication system of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***156*** | ***Battery-free telephone communication system of the tug-supply vessel "Nercha"*** |  |  |  |  |
| ***157*** | ***Engine room telegraph operating system of the tug—supply vessel "Aura"*** |  |  |  |  |
| ***158*** | ***ИЕТМ1.7 type operating system of the engine room telegraph of the tug—supply vessel "Neftegas"*** |  |  |  |  |
|  | **4.2.15 - O p e r a t i n g s y s t e m o f n a v i g a t i o n a l l i g h t s**  |  |  |  |  |
| ***159*** | ***Operating system of navigational lights of the derrick barge "Azerbaijan" and crane vessel "Atlet"*** |  |  |  |  |
| ***160*** | ***Operating system of 24V navigational lights of the "UT-704", “R-2111”, “R659” project tug - supply vessels*** |  |  |  |  |
| ***161*** |  **Operating system of 220V navigational lights of the "UT-704", “R-2111”, “R659” project tug - supply vessels**  |  |  |  |  |
| ***162*** | ***Operating system of "Orion" type navigational and signal lights of the motor vessel "Bunkerovshik"*** |  |  |  |  |
| ***163*** | ***Operating system of N-4000 type navigational and signal lights of the tug-supply vessel "Lyutoga"*** |  |  |  |  |
|  | **4.2.6 - O p e a r t i n g s y s t e m o f m e a s u r i n g t h e l e v e l o f l i q u i d i n t a n k s** |  |  |  |  |
| ***164*** | ***The system of measuring the level of fresh water in tanks of the tug—supply vessel "Aura"*** |  |  |  |  |
| ***165*** | ***The system of remote measuring the level of fresh water in tanks of the tug—supply vessel "Aura"*** |  |  |  |  |
| ***166*** | ***The system of remote measuring the level of fresh water (at one point) in tanks of the "UT-704", “R-2111”, “R659” project tug—supply vessels***  |  |  |  |  |
| ***167*** | ***Alarm system of fluid level in cargo tanks of the motor vessel "Bunkerovshik"*** |  |  |  |  |
|  | **4.2.17 - O p e r a t i n g s y s t e m o f h o i s t i n g c r a n e s a n d m e c h a n i s m s**  |  |  |  |  |
| ***168*** | ***Main hoisting mechanism operating system of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***169*** | ***Operating system crane auxiliary hoisting mechanism with load hoisting capacity of 400 tons of the derrick barge "Azerbaijan"***  |  |  |  |  |
| ***170*** |  **Operating system crane auxiliary hoisting mechanism with load hoisting capacity of 30 tons of the derrick barge "Azerbaijan"**  |  |  |  |  |
| ***171*** | ***Operating system of the crane rotation mechanism of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***172*** | ***Operating system of the crane boom extension distance control mechanism of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***173*** | ***Crane Operating system of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***174*** | ***Operating system of crane hook hoisting of the crane vessel "Atlet"*** |  |  |  |  |
| ***175*** | ***Operating system of the crane boom extension distance control mechanism of the crane vessel "Atlet"*** |  |  |  |  |
| ***176*** | ***Operating system of the crane rotation control mechanism of the crane vessel "Atlet"*** |  |  |  |  |
| ***177*** |  ***ОГП-2 type load hoisting restriction system of the crane vessel "Atlet"*** |  |  |  |  |
| ***178*** | ***Crane operating system of the crane vessel "Atlet"*** |  |  |  |  |
| ***179*** | ***Auxiliary systems unit of the crane vessel "Atlet"*** |  |  |  |  |
| ***180*** | ***Operating system of the wire and anchor winches of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***181*** | ***Operating system of the towing winch installed on the stern of the tug—supply vessels "Nercha" and "Aura"*** |  |  |  |  |
| ***182*** | ***Operating system of the towing winch installed on the bow of the tug—supply vessels "Nercha" and "Aura"*** |  |  |  |  |
| ***183*** | ***Operating system of the anchor winch motor protection system of the tug - supply vessel "A. Gulmammadov"*** |  |  |  |  |
| ***184*** | ***Operating system of the computer towing system of the tug—supply vessel "A. Gulmammadov"*** |  |  |  |  |
| ***185*** | ***Operating system of the towing winch of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***186*** | ***Operating system of the anchor and towing winch of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***187*** | ***Alarm, control and operating system of the anchor winch (one winch) from the operation desk of the pipe laying vessel "Suleyman Vazirov".*** |  |  |  |  |
| ***188*** | ***Winch operating system electronic voltage regulator of the pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
| ***189*** | ***Remote control and operating system of the anchor winch (one winch) of the pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
|  | **4.2.18 - O t h e r s y s t e m s** |  |  |  |  |
| ***190*** | ***Welding apparatus operating system of the tug—supply vessel "Aura*** |  |  |  |  |
| ***191*** | ***Wind measuring system of the derrick barge "Azerbaijan"*** |  |  |  |  |
| ***192*** | ***Operating system of the "Tifon" type fog signalling apparatus of the motor vessel "Bunkerovshik" and tug-supply vessel "Lyutoga"*** |  |  |  |  |
| ***193*** | ***ИS ТР6 type operating system of the fuel transfer system of the tug—supply vessel "Neftegas"*** |  |  |  |  |
| ***194*** | ***Operating system of the pulling device (1 unit) of the pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
| ***195*** | ***ПТУ-60 type television device (one camera and signal converter) of the pipe laying vessel "Suleyman Vazirov"*** |  |  |  |  |
|  | **4.2.19 - O p e r a t i n g s y s t e m o f m a i n , a u x i l i a r y , e m e r g e n c y , l a y - u p e n g i n e s a n d t h y r i s t o r c on v e r t e r s**  |  |  |  |  |
| ***196*** | ***Operating system of the "Jisfor 211" type thyristor converter manufactured by "Jemen Schneider" company in the engineering and geological survey vessel "Ali Amirov"***   |  |  |  |  |
| ***197*** | ***Operating system of auxiliary diesel generators of the engineering and geological survey vessel "Ali Amirov"*** |  |  |  |  |
| ***198*** | ***Operating system of emergency diesel generators of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***199*** | ***Main engine operating system of the motor vessel "Hovsan"*** |  |  |  |  |
| ***200*** | ***Main engine operating system of the motor vessel "A.Mustafaev"*** |  |  |  |  |
| ***201*** |  ***Heavy fuel viscosity control system of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***202*** | ***Operating system of the auxiliary diesel generators of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***203*** | ***Operating and alarm system of the emergency diesel generators of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***204*** |  ***Operating system of the auxiliary diesel generators of the vessels "Havsan" and "Socar-1"*** |  |  |  |  |
| ***205*** | ***Operating system of the emergency alarm and warning system and main engines' protection system of the motor vessel "Sabit Orujov"*** |  |  |  |  |
| ***206*** | ***Synchronization and parallel operating system of the motor vessel "Sabit Orujov"*** |  |  |  |  |
| ***207*** | ***Automated start and protection system of the emergency diesel generator of the motor vessel "Sabit Orujov"*** |  |  |  |  |
| ***208*** | ***The control unit designed for controlling the oil vapor generated in the main engine crankcase of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***209*** | ***The control unit designed for controlling the oil vapor generated in the main engine crankcase of the motor vessel "Sabit Orujov"*** |  |  |  |  |
| ***210*** | ***"Qraviner" MK-5 type system designed for controlling the oil vapor generated in the main engine crankcase of the "Titan" type crane vessel***  |  |  |  |  |
| ***211*** | ***The emergency alarm and warning and operating system of the auxiliary diesel generator of the crane vessel "Shirvan"*** |  |  |  |  |
| ***212*** | ***Automatic remote operating system of the layup diesel generator of the crane vessel "Shirvan" and pipe laying vessel "Israfil Huseynov"*** |  |  |  |  |
|  | **4.2.20 - C e n t r a l i z e d m e a s u r e m e n t a n d c o n t r o l s y s t e m o f m a i n e n g i n e s** |  |  |  |  |
| ***213*** | ***"АЛСИ-8" type centralized control and registration system for measurable indicators of the motor vessel "A. Gulmammadov"*** |  |  |  |  |
| ***214*** | ***Emergency alarm and remote measuring of indicators system of the power plant unit, auxiliary machinery of the motor vessel "A.Gulmammadov"******.*** |  |  |  |  |
| ***215*** | ***The electronic system for measuring the rotational frequency of main engine of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***216*** | ***Emergency alarm and warning system, and "SACO" type centralized control and registration system of the passenger vessels "Zafar" and “Turan”******.*** |  |  |  |  |
| ***217*** | ***The "SACO" type centralized control and registration system for main engines measurable indicators of the vessel "A.Mustafaev".***  |  |  |  |  |
| ***218*** | ***Emergency alarm and warning system, and "SACO" type centralized control and registration system of the 'Geofizik" type vessels.*** |  |  |  |  |
| ***219*** | ***The "SACO" type centralized control and registration system for main engines measurable indicators of the motor vessel "Sabit Orujov".***  |  |  |  |  |
| ***220*** | ***Emergency alarm and warning system, and "SACO" type centralized control and registration system of the 'Titan" type vessel.*** |  |  |  |  |
| ***221*** | ***"АЛСИ-8" type centralized control and registration system for measurable indicators of the crane vessel "Shirvan"*** |  |  |  |  |
|  | **4.2.21 - E m e r g e n c y a l a r m a n d w a r n i n g s y s t e m** |  |  |  |  |
| ***222*** | ***The emergency alarm and warning system of the power plant unit, machinery, and systems of the engineering and geological survey vessel "Ali Amirov"*** |  |  |  |  |
| ***223*** | ***Emergency alarm and protection system of the main diesel generator of the engineering and geological survey vessel "Ali Amirov"*** |  |  |  |  |
| ***224*** | ***Thyristor converter alarm and warning system of the engineering and geological survey vessel "Ali Amirov"*** |  |  |  |  |
| ***225*** |  ***"Stromberg" type emergency alarm and warning system of main engine and auxiliary mechanisms of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***226*** | ***Emergency alarm and warning system of auxiliary machinery of the tug vessel "Socar-1"*** |  |  |  |  |
| ***227*** | ***Emergency alarm and warning system of the layup diesel generator of the crane vessel "Shirvan" and pipe laying vessel "Israfil Huseynov"*** |  |  |  |  |
| ***228*** | ***Emergency alarm and warning system of the main engine of the crane vessel "Shirvan"*** |  |  |  |  |
| ***229*** | ***Emergency alarm and warning system of the propulsion units of the crane vessel "Shirvan"*** |  |  |  |  |
| ***230*** | ***"CEPS" type general engine room alarm system of the crane vessel "Shirvan"*** |  |  |  |  |
| ***231*** | ***Emergency alarm and warning system of the shaft drive reducer of the crane vessel "Shirvan"*** |  |  |  |  |
| ***232*** | ***Emergency alarm and warning system of the main generators of the crane vessel "Shirvan"*** |  |  |  |  |
|  | **4.2.22 - O p e r a t i n g s y s t e m o f t h e c o n t r o l l a b l e p i t c h p r o p e l l e r , s c r e w r u d d e r , a u x i l i a r y t h r u s t u n i t , a u t o m a t i c p i l o t d e v i c e**  |  |  |  |  |
| ***233*** | ***"Kameva" type controllable pitch propeller and screw rudder operating system of the motor vessel "Sabit Orujov", crane vessel "G.A.Shikhlinski" and, vessel "A.Gulmammadov".***  |  |  |  |  |
| ***234*** | ***Automatic pilot device operating, control and alarm system of the vessel "A.Gulmammadov"*** |  |  |  |  |
| ***235*** | ***Auxiliary thrust device operating system of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***236*** | ***Auxiliary thrust device operating system of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***237*** | ***Operating system of the controllable pitch propeller of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***238*** | ***Rudder gear operating system of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***239*** | ***Operating system of the controllable pitch propeller of the motor vessel "Usukhchay"*** |  |  |  |  |
| ***240*** | ***Operating system of the clutch connecting controllable pitch propeller and reducer of the motor vessel "Usukhchay"*** |  |  |  |  |
| ***241*** | ***Propulsion unit operating system and operation panel of the crane vessel "Shirvan".***  |  |  |  |  |
| ***242*** | ***Propulsion unit operating system of the crane vessel "Shirvan".***  |  |  |  |  |
| ***243*** | ***Auxiliary thrust device operating system of the crane vessel "Shirvan"*** |  |  |  |  |
|  | **4.2.23 - B o i l e r o p e r a t i n g s y s t e m**  |  |  |  |  |
| ***244*** | ***Boiler operating, protection and alarm system of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***245*** | ***Steam boiler operating system of the engineering and geological survey vessel "Ali Amirov"*** |  |  |  |  |
| ***246*** | ***Boiler operating system of the motor vessel "Hovsan"*** |  |  |  |  |
| ***247*** | ***Boiler operating system of the vessel "Socar-1"*** |  |  |  |  |
| ***248*** | ***Boiler operating system of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***249*** | ***Boiler operating system of the motor vessel "Sabit Orujov and pipe laying vessel "Israfil Huseynov"*** |  |  |  |  |
| ***250*** | ***Boiler operating system of the "Titan" type crane vessel*** |  |  |  |  |
| ***251*** | ***Boiler operating system of the crane vessel "Shirvan"*** |  |  |  |  |
|  | **4.2.24 - F i r e a l a r m s y s t e m** |  |  |  |  |
| ***252*** |  ***"Serebus" type fire alarm system of the engineering and geological survey vessel "Ali Amirov"*** |  |  |  |  |
| ***253*** | ***"Pastor" type fire alarm system of the vessel "A.Gulmammadov"*** |  |  |  |  |
| ***254*** | ***"Gallon" type gas leaks remote control system of the fire extinguishing system of the vessel "A.Gulmammadov"*** |  |  |  |  |
| ***255*** | ***Machinery and equipment emergency stop system in case of fire of the vessel "A.Gulmammadov"*** |  |  |  |  |
| ***256*** | ***Fire alarm system of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***257*** | ***Fire alarm system of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***258*** | ***SPS P20E24 type fire alarm system of the motor vessel "Sabit Orujov"*** |  |  |  |  |
| ***259*** | ***SPS P20E24 type fire alarm system of the "Titan" type crane vessel*** |  |  |  |  |
| ***260*** | ***SFDU-77 type fire alarm system of the crane vessel "Shirvan"*** |  |  |  |  |
|  | **4.2.25 — O p e r a t i n g s y s t e m o f p u m p s, s e p a r a t o r s a n d v a l v e s** |  |  |  |  |
| ***261*** | ***Operating system of the "ATA" type tow and anchor winch (1 winch) valves of the vessel "A.Gulmammadov".*** |  |  |  |  |
| ***262*** | ***Operating system of the fire pumps of the vessel "A.Gulmammadov", pipe laying vessel "Israfil Huseynov", motor vessel "Sabit Orujov" and "Titan" type crane vessel.*** |  |  |  |  |
| ***263*** | ***Operating system of the boiler fuel pumps of the vessel "A.Gulmammadov", motor vessel "Sabit Orujov" and "Titan" type crane vessel.*** |  |  |  |  |
| ***264*** | ***Operating system of the overboard water pumps of the vessel "A.Gulmammadov", pipe laying vessel "Israfil Huseynov", motor vessel "Sabit Orujov" and "Titan" type crane vessel.*** |  |  |  |  |
| ***265*** | ***Operating system of the fresh water pumps of the vessel "A.Gulmammadov", pipe laying vessel "Israfil Huseynov", motor vessel "Sabit Orujov" and "Titan" type crane vessel.*** |  |  |  |  |
| ***266*** | ***Operating system of the waste water vacuum pumps of the vessel "A.Gulmammadov", pipe laying vessel "Israfil Huseynov", motor vessel "Sabit Orujov" and "Titan" type crane vessel.*** |  |  |  |  |
| ***267*** | ***Engine room drying operating system of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***268*** | ***Engine room drying operating system of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***269*** | ***Operating system of the waste water, bilge water and ballast pumps and valves of the vessel "A.Mustafaev".*** |  |  |  |  |
| ***270*** | ***Operating system of the fire pumps of the crane vessel "Shirvan"*** |  |  |  |  |
| ***271*** | ***Operating system of the bilge water and ballast system valves of the crane vessel "Shirvan"*** |  |  |  |  |
|  | **4.2.26 - O p e r a t i n g s y s t e m o f a i r c o n d i t i o n i n g e q u i p m e n t , v e n t i l a t i o n a n d c o m p r e s s o r s** |  |  |  |  |
| ***272*** | ***Air compressor operating system of the passenger vessels "Zafar", “Turan” and vessel "Hovsan”*** |  |  |  |  |
| ***273*** | ***Air compressor operating system of the crane vessel "A.Mustafaev"*** |  |  |  |  |
| ***274*** | ***Automated operating system of the "Bronze" type air evacuation compressors of the tug vessel "Socar-1"******.*** |  |  |  |  |
| ***275*** | ***Air compressor operating system of the crane vessel "Shirvan"*** |  |  |  |  |
| ***276*** | ***Ventilation fans operating system of the crane vessel "Shirvan"*** |  |  |  |  |
| ***277*** |  ***Operating system of the heavy fuel or oil separator of the vessel "A.Gulmammadov", pipe laying vessel "Israfil Huseynov", motor vessel "Sabit Orujov" and "Titan" type crane vessel.***  |  |  |  |  |
| ***278*** |  ***Operating system of the lubrication oil separator of the vessel "A.Gulmammadov", pipe laying vessel "Israfil Huseynov", motor vessel "Sabit Orujov" and "Titan" type crane vessel.***  |  |  |  |  |
| ***279*** | ***Operating system of the heavy fuel or oil and, lubrication oil separator of the vessel "A.Mustafaev".*** |  |  |  |  |
| ***280*** | ***Operating system of the provision refrigerating unit of the engineering and geological survey vessel "Ali Amirov", vessel "Socar-1", motor vessel "Sabit Orujov" and "Hövsan".*** |  |  |  |  |
| ***281*** | ***Operating system of the provision refrigerating unit of the vessel "A.Mustafaev”, passenger vessels "Zafar" and “Turan”.*** |  |  |  |  |
| ***282*** | ***Operating system of the provision refrigerating unit of the vessels "Mardakan" and "Lankaran"*** |  |  |  |  |
|  | **4.2.27- O p e r a t i n g s y s t e m o f t h e c h a r g i n g d e v i c e s , d i s t r i b u t i o n b o a r d s , p r o t e c t i o n s y s t e m , g e n e r a t o r c o n t r o l , e l e c t r i c p o w e r u n i t s** |  |  |  |  |
| ***283*** | ***MW 24/25E24 type charging device =operating system of the motor vessel "Sabit Orujov" and "Geofizik" type vessels.*** |  |  |  |  |
| ***284*** | ***Charging board operating system of the vessels "Mardakan" and "Lankaran"*** |  |  |  |  |
| ***285*** | ***Distribution board for 24 V batteries of the crane vessel "Shirvan"*** |  |  |  |  |
| ***286*** | ***Charging device operating system of the crane vessel "Shirvan".***  |  |  |  |  |
| ***287*** | ***Automated ship battery installation of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***288*** | ***Power charging and distribution unit operating system of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***289*** | ***250V charging device operating system of the engineering and geological survey vessel "Ali Amirov" and "Geofizik" vessel***  |  |  |  |  |
| ***290*** | ***Operating system of the electric power plant of the vessel "A.Mustafaev"*** |  |  |  |  |
| ***291*** | ***Operating system of the anchor winch motor protection system of the vessel "A. Gulmammadov"*** |  |  |  |  |
| ***292*** | ***Generators protection system of the vessel "Socar-1"***  |  |  |  |  |
| ***293*** | ***Operating system of the HSPT type three-phase synchronized generator of the motor vessel "Sabit Orujov"*** |  |  |  |  |
| ***294*** | ***"Rade Konçar" type synchronized generators starting sytem of the crane vessel "Shirvan"*** |  |  |  |  |
| ***295*** | ***Main generator protection system of the crane vessel "Shirvan"*** |  |  |  |  |
| ***296*** | ***Voltage regulator operating system of the vessels "Mardakan" and "Lankaran"*** |  |  |  |  |
| ***297*** | ***Main engine overload protection of the " Titan" type vessels*** |  |  |  |  |
| ***298*** | ***Emergency switchboard. Electronic part.*** |  |  |  |  |
| ***299*** | ***Main distribution board. Electronic part. Crane vessel "A.Mustafaev"*** |  |  |  |  |
| ***300*** | ***Main distribution board. Electronic part. Motor vessel "Sabit Orujov"***  |  |  |  |  |
| ***301*** | ***Main distribution board. Electronic part. Motor vessel "Shirvan"***  |  |  |  |  |
|  | **4.2.25 — O p e r a t i n g s y s t e m o f t e l e p h o n e c o m m u n i c a t i o n u n i t s** |  |  |  |  |
| ***302*** | ***"JXOS-72" type telephone communication unit operating system of the engineering and geological survey vessel "Ali Amirov"*** |  |  |  |  |
| ***303*** | ***Automatic telephone communication system of the passenger vessels "Zafar" and “Turan” and the vessel "A.Mustafaev".*** |  |  |  |  |
| ***304*** | ***Automatic telephone communication system of the vessels "Mardakan" and "Lankaran".*** |  |  |  |  |
| ***305*** | ***Automatic telephone communication system of the crane vessel "Shirvan" and motor vessel "Sabit Orujov"*** |  |  |  |  |
|  |  ***4.2.29 - O p e r a t i n g s y s t e m o f n a v i g a t i o n a l l i g h t s***  |  |  |  |  |
| ***306*** | ***24V navigational lights operating system of the vessel "Socar-1", engineering and geological survey vessel "Ali Amirov" and passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***307*** |  ***220V navigational lights operating system of the vessel "Socar-1", engineering and geological survey vessel "Ali Amirov" and passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***308*** | ***24V navigational lights operating system of the vessel "A.Mustafaev", crane vessel "Shirvan" and motor vessel "Sabit Orujov".*** |  |  |  |  |
| ***309*** | ***220V navigational lights operating system of the vessel "A.Mustafaev", crane vessel "Shirvan" and motor vessel "Sabit Orujov".*** |  |  |  |  |
| ***310*** | ***"КВТ-2" type navigational lights control board of the motor vessel "Sabit Orujov"*** |  |  |  |  |
|  | **4.2.30 — O p e r a t i n g s y s t e m o f t h e f o g s i g n a l l i n g a p p a r a t u s** |  |  |  |  |
| ***311*** | ***"Туман" type fog signalling apparatus operating system of the motor vessel "Sabit Orujov"*** |  |  |  |  |
| ***312*** | ***"Тайфун Т1-40" type fog signalling apparatus operating system of the motor vessel "Hovsan" and engineering and geological survey vessel "A.Amirov"*** |  |  |  |  |
| ***313*** | ***Fog signalling apparatus operating system of the vessels "Mardakan" and "Lankaran".*** |  |  |  |  |
| ***314*** | ***"Тифон" type fog signalling apparatus operating system of the crane vessel "Shirvan"***  |  |  |  |  |
| ***315*** | ***"Туман" type fog signalling apparatus operating system of the vessel "Socar-1"*** |  |  |  |  |
| ***316*** | ***"Тифон" type fog signalling apparatus operating system of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***317*** | ***"Тифон" type fog signalling apparatus operating system of the vessel "A.Mustafaev"***  |  |  |  |  |
| ***318*** | ***"Тифон" type fog signalling apparatus operating system of the crane vessel "Shirvan"***  |  |  |  |  |
|  | **4.2.31 - O p e r a t i n g s y s t e m o f h o i s t i n g c r a n e s a n d m e c h a n i s m s** |  |  |  |  |
| ***319*** | ***Towing winch operating system of the motor vessel "Sabit Orujov" and motor vessel "A.Gulmammadov"*** |  |  |  |  |
| ***320*** | ***"Tigger" type towing winch operating system of the "Titan" type crane vessel*** |  |  |  |  |
| ***321*** | ***Operating system of the crane boom extension distance control mechanism of the "Titan" type crane vessel*** |  |  |  |  |
| ***322*** | ***Operating system of the crane rotation control mechanism of the "Titan" type crane vessel*** |  |  |  |  |
| ***323*** | ***Operating system of the thyristor hoisting control mechanism of the "Titan" type crane vessel*** |  |  |  |  |
| ***324*** | ***Operating system of the crane main hoisting mechanism with a load lifting capacity of 300 tons of the "Titan" type crane vessel*** |  |  |  |  |
| ***325*** | ***Operating system of the crane main hoisting mechanism with a load lifting capacity of 600 tons of the "Titan" type crane vessel*** |  |  |  |  |
| ***326*** | ***Operating system of the crane auxiliary hoisting mechanism with a load lifting capacity of 150 tons and 20 tons of the "Titan" type crane vessel*** |  |  |  |  |
| ***327*** | ***Crane operating system of the vessel "A.Mustafaev" and crane vessel "Shirvan". Operation desk*** |  |  |  |  |
| ***328*** | ***Operating system of the crane hoisting mechanism of the vessel "A.Mustafaev" and crane vessel "Shirvan".*** |  |  |  |  |
| ***329*** | ***Operating system of the crane boom extension distance control mechanism of the vessel "A.Mustafaev" and crane vessel "Shirvan".*** |  |  |  |  |
| ***330*** | ***Operating system of the crane rotation mechanism of the vessel "A.Mustafaev" and crane vessel "Shirvan".*** |  |  |  |  |
| ***331*** | ***Operating system of the crane load hoisting restriction and moment of the vessel "A.Mustafaev" and crane vessel "Shirvan".*** |  |  |  |  |
|  |  **4.2.32 - O t h e r s y s t e m s**  |  |  |  |  |
| ***332*** | ***"Albatros" type dynamic positioning system (complete with one unit of computer) of the engineering and geological survey vessel "Ali Amirov" and "Geofizik".*** |  |  |  |  |
| ***333*** | ***"Binder" type printing device of the engineering and geological survey vessel "Ali Amirov" and "Geofizik". Electronic part.*** |  |  |  |  |
| ***334*** | ***The "Симрад НРР-309" type electronic system designed for the hydroacoustic determination of ship's position of the engineering and geological survey vessel "Ali Amirov" and "Geofizik".*** |  |  |  |  |
| ***335*** | ***The "Симрад ЕА200" type hydrographic echo sounder operating system of the engineering and geological survey vessel "Ali Amirov" and "Geofizik".*** |  |  |  |  |
| ***336*** | ***Control and alarm system for the hull and ship pitching of the engineering and geological survey vessel "Ali Amirov" and "Geofizik".*** |  |  |  |  |
| ***337*** | ***РСВ 4409/440М type monitor manufactured by "Салора" company on board the engineering and geological survey vessel "Ali Amirov" and "Geofizik".*** |  |  |  |  |
| ***338*** | ***"СД701" type cassette receiver device of the engineering and geological survey vessel "Ali Amirov" and "Geofizik".*** |  |  |  |  |
| ***339*** | ***Digital repeater of the IP22/Ip32 type gyrocompass manufactured by "Лемкул" company on board the engineering and geological survey vessel "Ali Amirov" and "Geofizik".*** |  |  |  |  |
| ***340*** | ***Tank fluid level remote measuring system (at one point) of the passenger vessels "Zafar" and “Turan”.*** |  |  |  |  |
| ***341*** | ***ТС77WL type television device assembly (one camera and video monitor) on board the "Titan" type crane vessel*** |  |  |  |  |
| ***342*** | ***Electronic wind measurement system of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***343*** | ***МРЗ-24, МРЗ-32, МРЗ-48 type static inverter operating system of the engineering and geological survey vessel "Ali Amirov" and "Geofizik".*** |  |  |  |  |
| ***344*** | ***Magnetic regulator operating system of the vessels "Mardakan" and "Lankaran"*** |  |  |  |  |
| ***345*** | ***РТС-3 type speed transistor relay operating system of the crane vessel "Shirvan"*** |  |  |  |  |
| ***346*** | ***Gas detection and alarm system of the passenger vessels "Zafar" and “Turan”*** |  |  |  |  |
| ***347*** | ***Adaptation of the newly installed diesel generators` operating system***  |  |  |  |  |
| ***348*** | ***Designing protection and signalling systems of diesel generators*** |  |  |  |  |
| ***349*** | ***Modernization and installation of the auxiliary steering assembly operating systems*** |  |  |  |  |
| ***350*** | ***Automatic start of diesel generators, replacing synchronization blocks with new ones*** |  |  |  |  |
| ***351*** | ***The new structure of the system ensures increase of load on board the vessels such as "Atlet" and "Neftegas"***  |  |  |  |  |
| ***352*** | ***Establishment of the quick spare system in accordance with the new principle*** |  |  |  |  |
| ***353*** |  ***Redesigning the emergency warning, measuring, control and alarm systems*** |  |  |  |  |
| ***354*** |  ***Modernization of automatic battery charging units operating system of the "Atlet", 'Shirvan" and "Neftegas" type vessels***    |  |  |  |  |
| ***355*** | ***Development, installation and commissioning of the telegraphic system in accordance with a new principle and on the basis of modern elements***    |  |  |  |  |
| ***356*** | ***Designing the electronic circuit boards ensuring operation of the steering gear synchronously and simultaneously in the automatic pilot mode***  |  |  |  |  |
| ***357*** | ***Designing the electronic circuit board versions for the generator affecting system on board "Atlet", 'Shirvan" and "Neftegas" type vessels***  |  |  |  |  |
| ***358*** | ***Designing, testing, installation and commissioning the new versions of voltage, current and power converters***    |  |  |  |  |
| ***359*** | ***Designing, testing, installation and commissioning the new versions of frequency converters***    |  |  |  |  |
| ***360*** | ***Designing a new version of insulation measuring device*** |  |  |  |  |
| ***361*** | ***Designing a new version of tachometers*** |  |  |  |  |
| ***362*** | ***Signal recorders linking electronics and automation equipment with computer system***  |  |  |  |  |
| ***363*** | ***Installation of analogue / digital converters, interfaces, and ADAMS type systems*** |  |  |  |  |
| ***364*** | ***Installation of warning systems and equipment alarm systems meeting requirements of international standards*** |  |  |  |  |
| ***365*** | ***Designing new models of emergency alarm and warning system electronic circuit boards series that were taken out of production***   |  |  |  |  |
| ***366*** | ***Designing electronic circuit boards of the crane operating system of the "Atlet" type vessels*** |  |  |  |  |
| ***367*** | ***Designing and in situ adjusting the controllable pitch propeller electronic circuit boards*** |  |  |  |  |
| ***368*** | ***software*** |  |  |  |  |
| ***369*** | ***Reconstruction of dynamic positioning system on the vessel "Ali Amirov"*** |  |  |  |  |
| ***370*** | ***Reconstruction of an electronic hydroacoustic system that determines the position of vessels*** |  |  |  |  |