On approval of the standard of state service “Dangerous technical devices registration and removal from the register"

Unofficial translation

Order of the Minister for Investment and Development of the Republic of Kazakhstan dated November 27, 2018 No. 822. Registered with the Ministry of Justice of the Republic of Kazakhstan on November 30, 2018 No. 17845. Abolished by order of the Minister of Industry and Infrastructure Development of the Republic of Kazakhstan dated April 24, 2020 No. 229.

Unofficial translation

Footnote. Abolished by order of the Minister of Industry and Infrastructure Development of the Republic of Kazakhstan dated 04.24.2020 No. 229 (shall be enforced upon expiry of twenty one calendar days after the day of its first official publication).

In accordance with subparagraph 1) of Article 10 of the Law of the Republic of Kazakhstan dated April 15, 2013 "On State Services**" I hereby ORDER**:

1. To approve the attached standard of the state service “Dangerous technical devices registration and removal from the register”.

2. The Committee for Industrial Development and Industrial Safety of the Ministry for Investment and Development of the Republic of Kazakhstan, in the manner prescribed by law , shall ensure:

1) state registration of this order with the Ministry of Justice of the Republic of Kazakhstan;

2) sending of this order in Kazakh and Russian languages to the Republican State Enterprise on the Right of Economic Management "Republican Center of Legal Information" within ten calendar days from the date of state registration for official publication and inclusion in the Reference Control Bank of Regulatory Legal Acts of the Republic of Kazakhstan;

3) posting of this order on the Internet resource of the Ministry for Investments and Development of the Republic of Kazakhstan;

4) submission to the Legal Department of the Ministry for Investment and Development of the Republic of Kazakhstan of the information on implementation of measures, in accordance with subparagraphs 1), 2) and 3) of this paragraph within ten working days after the state registration of this order with the Ministry of Justice of the Republic of Kazakhstan.

3. Supervision of the fulfilment of this order shall be entrusted to the Supervising Vice Minister for Investments and Development of the Republic of Kazakhstan.

4. This order shall enter into force upon the expiry of ten calendar days after the day of its first official publication.

Minister for Investments and
Development of the Republic of Kazakhstan *Zh. Kasymbek*

Approved
by order № 822 of the
Minister for Investments and
Development
of the Republic of Kazakhstan,
dated November 27, 2018

Standard of state service “Dangerous technical devices registration and removal from the register"

Chapter 1. General Provisions

1. The state service “Dangerous technical devices registration and removal from the register" (hereinafter - the state service).

2. The state service standard was developed by the Ministry for Investment and Development of the Republic of Kazakhstan (hereinafter - the Ministry).

3. The public service shall be provided by the territorial departments of the Industrial Development and Industrial Safety Committee of the Ministry (hereinafter - the service provider).

Receipt of request and issue of a result of the state service provision shall be carried out through the office of the service provider.

Chapter2. Procedure for rendering of the public service

4. The term of rendering of state service:

1) from the day of filing the package of documents to the service provider - 10 (ten) working days;

2) maximum waiting time for filing the package of documents – 15 (fifteen) minutes;

3) maximum allowed service time – 15 (fifteen) minutes.

5. Form of the state service rendering: on paper.

6. The result of the state service rendering – issuance of notification of registration, deregistration of dangerous technical devices.

Form of the state service result rendering: on paper.

7. The state service to individuals and legal entities (hereinafter -the service recipient) shall be provided free of charge.

8. Working hours of the service provider - from Monday to Friday from 9.00 to 18.30, lunch break from 13.00 to 14.30, except weekends and holidays, according to the Labor Legislation of the Republic of Kazakhstan.

Reception of documents and issuance of the result of public services rendering shall be carried out from 9.00 to 17.30 with a lunch break from 13.00 to 14.30.

State service shall be rendered in turn, without an appointment and accelerated service.

The list of documents required for the public services rendering, when the service recipient applies (or his representative by proxy)shall be as follows:

1) an application for registration and deregistration of a dangerous technical device according to the forms in accordance with Annexes 1 and 2 to this state service standard;

2) an identity document (for identification);

3) passport of a vessel under pressure, a boiler (autonomous superheater, economizer), a boiler, a pipeline, a crane, an elevator, a lift by the forms according to Annexes 3, 4, 5, 6, 7, 8 and 9 of this state service standard.

In cases of submission by the service recipient of an incomplete package of documents in accordance with the list provided for in this paragraph, and (or) documents with an expired date, the service provider shall refuse to accept the application.

Chapter 3. The procedure for appealing decisions, actions (inaction) of service providers and (or) their officials on the public services rendering issues.

10. Appealing against decisions, actions (inaction) of the service provider and (or) its officials regarding the provision of public services, a complaint shall be filed in the name of the head of the service provider at the address specified in paragraph 12 of this standard of public services.

The complaint shall be submitted in writing by mail, to the portal of "electronic government" or by personal delivery via the office of the service provider.

In the complaint of the service recipient the following shall be indicated:

if it is a physical person - his/her surname, first name, patronymic name (if available), mailing address;

if it is a legal entity - its name, postal address, reference number and date.

The complaint shall be signed by the service recipient.

Confirmation of the complaint acceptance shall be its registration (stamp, reference number and date) in the office of the service provider with the surname, first name and patronymic (if available) and initials of the person who accepted the complaint, the date and place of receiving the response to the complaint.

When applying via the portal, the information on the appeal procedure may be obtained by calling the Integrated Call Center: 1414, 8 800 080 7777.

When sending a complaint via the portal, the service recipient from the "personal cabinet" shall have access to information about the appeal, which is updated during processing of the request by the service provider (notes on delivery, registration, execution, response to consideration or refusal to consider the complaint).

The complaint of the service recipient received by the service provider shall be subject to review within five working days from the date of its registration.

A motivated answer on the results of the examination shall be sent to the customer by postal service, via the portal of "electronic government" or issued by personal delivery in the office of the service provider.

In case of disagreement with the results of the public service provided, the service recipient can file a complaint with the authorized body for assessment and control of the quality of public services.

The complaint of the service recipient received by the authorized body for the assessment and control of the quality of public services shall be considered within fifteen working days from the date of its registration.

11. In cases of disagreement with the results of the public service provided, the service recipient can apply to the court in accordance with the procedure established by the Legislation of the Republic of Kazakhstan.

Глава 4. Other requirements, taking into account the specifics of the State service rendering

12. Address of places for rendering of the state service shall be specified on the Internet resource of the service provider: comprom.mid.gov.kz.

13. Contact telephone numbers of reference services for public services shall be placed on the Internet resource of the service provider: comprom.mid.gov.kz.

Annex 1
to order No. 822 of the
Minister for Investment and
Development
of the Republic of Kazakhstan,
dated November 27, 2018
Document form
To the Head

_____
(name of the

_____
territorial Department)

_____
(surname, name, patronymic
(if available)

Application for registration of dangeroustechnical device

_____

__

(name of enterprise, organization, last name, first name, patronymic (if available) of an individual, departmental affiliation,

individual identification number, address, zip code, telephone)

I hereby request to put on record

(to register) _____

__

(name, type, kind of dangerous technical device)

factory (serial)№ _____

__

manufactured _____

___

(date and year of manufacture, name of manufacturer, country)

Supervision over _____ has been organized in full

compliance with (type of dangerous technical device)

Rules for ensuring industrial safety in the operation of load-lifting

mechanisms approved by order No. 359 of the Minister for Investment and Development of the Republic

Kazakhstan of December 30, 2014 (registered in the State Register ofRegulatory Legal Acts under the number 10332) (hereinafter - the Rules for lifting

mechanisms) and the Rules for ensuring industrial safety during the work with

equipment operating under pressure, approved by order No. 358 of the Minister of Investment and Development of the Republic of Kazakhstan of December 30, 2014 (registered in the Register of State Registration of Regulatory Legal Acts under

No. 10303) (hereinafter - the Rules for pressure equipment) (underline as necessary).

There is the trained personnel for servicing dangerous technical devices.

The technical condition of the registered dangerous technical device allows its safe operation.

The person responsible for supervising the safe operation of a dangerous technical

device and carrying out technical inspections is appointed by order

№_____ from "__" _____20___ .

Surname, name, patronymic (if available)_____,

position _____

_

Passed the check for the knowledge of the Rules on load-lifting mechanisms and Rules for ensuring industrial safety during work with the

equipment operating under pressure (underline as necessary) and has the Certificate №___

___,

date, year, name of the issuing organization

_____

__

_____

__

The management of the enterprise (organization) guarantees the creation of conditions for the implementation control functions by the

responsible persons, assigned to them in accordance with the Rules on load-lifting mechanisms and the Rules for ensuring industrial safety during the work with equipment operating under pressure (underline as necessary) _____ _____ _ _____

(position of the head of the organisation, Surname, name, patronymic (if available)_____ _____,

Surname, name, patronymic (if available) signature)

of individual)

"___" _____ 20___.

Annex 2
to order No. 822 of the
Minister for Investment and
Development
of the Republic of Kazakhstan,
dated November 27, 2018
Document form
To the Head

_____
(name of the

_____
territorial Department)

_____
(surname, name, patronymic
(if available)

Application for deregistration of a dangerous technical device

_____

__

(name of enterprise, organization, last name, first name, patronymic
(if available) of an individual, departmental affiliation,
individual identification number, address, zip code, telephone)

I hereby ask you to deregister

_____

__

(name, type, kind of dangerous technical device)

factory (serial)№ _____

__

manufactured

_____

(date and year of manufacture, name of manufacturer, country)

_____ _____ _____

(position of the head of the organisation (Surname, name, patronymic (if available)
Surname, name, patronymic (if available) (signature)
of individual)
"___" _____ 20__.

Annex 3
to order No 822 of the
Minister for Investment and
Development
of the Republic of Kazakhstan,
dated November 27, 2018
Dcoument form

Passport
of the vessel, working under pressure 1. Certificate of quality of the vessel manufacture

_____

(name of the vessel)
Factory № _____ manufactured)_____

(date of manufacture)

_____

(manufacturer name and address)

_____

2. Technical characteristics and parameters

Name of the vessel's parts		
Operating pressure, MPa kp/cm^2		
Design pressure, MPa (kp/cm^2)		
Trial test pressure, MPa (kp/cm^2)	hydraulic	
	pneumatic	
Ambient operating temperature, °C		
Estimated wall temperature, °C		

Minimum allowable negative wall temperature, °C	
Name of operating environment	
Characteristics of operating environment	Hazard class
	Explosion hazard
	Fire hazard
Corrosion (erosion) allowance, мм	
Capacity, $м^3$	
Empty vessel mass 1, kg	
Maximum weight of filled environment 1, kg	
Estimated life of the vessel, years	
1 For vessels with liquefied gases	

3. Information about the main parts of the vessel

Name of vessel elements (body, bottom, neck, grids, pipes, vessel jacket)	Quantity, pieces	Dimensions, mm			Basic metal		Information on welding (soldering)		
		Diameter (internal or external)	Wall thickness	Length (height)	Grade	Technical guidance document (GOST (State standard)	Method of connection (welding, soldering)	Type of welding (soldering)	Electrodes, welding wire, solder (type, grade, GOST or NTD)

4. Information on fittings, flanges, caps and fasteners

Name	Quantity, pieces.	Dimensions, mm or specification number	Material	
			Grade	GOST (State Standard) (Technical guidance document)

5. Data on safety relief devices, main reinforcement, control instruments, safety appliances

Name	Quantity, pieces.	Installation site	Nominal width, mm	Nominal pressure, MPa (kp/cm^2)	Body material	
					Grade	GOST(State Standard) (Technical guidance document)

6. Data on main materials used in the manufacture of the vessel

Material					Data of the mechanical tests according to the certificate or the protocol of factory tests						
					At T = 20°C						
									Impact-viscosity		
Element name	Grade	Standard (Technical guidance document)	Heat number (lot))	Number and date of the certificate (protocol)	Yield limit Re, MPa (kp/cm ^{2})	Ultimate resistance(strength limit)Rm, MPa (kp/ cm^2)	Percentage extension As, %	Contraction ratio, %	Before aging, j / cm^2 (kgf· m / cm^2)	After aging , j / cm^2 (kgf· m / cm2)	Sample type

Table continuation

Data of the mechanical tests according to the certificate or the protocol of factory tests			Additional data (ultrasonic testing, tests for hardness, the state of the initial heat treatment and others)	Chemical composition according to the certificate or the protocol of factory tests											
At T < 0° C															
Impact-viscosity, j / cm2 (kgf·m / cm2)	Temperature , °C	Sample type		C	Mn	Si	Cr	Ni	Mo	Cu	Ti	V	S	P	Other elements

7. Vessel Body Dimensions Table

Element name	Sketch number	Cross section number	Diameter, мм			Out-of-roundness, %		Straigthness error, mm		Edge offset of welded butt joints			
			Nominal outer or inner	Deviation		allowable	measured	allowable	measured	longitudinal		annular	
				allowable	measured					allowable	measured	allowable	r

8. Results of testing and research of welded joints

The name of an element and a number of the drawing (sketch) indicating the connection for which	Test certificate	Mechanical tests					
		Welded joint			Weld metal		
		Ultimate resistance	Impact-viscosity		Diameter of straightening and bending angle	Ultimate resistance	

the control welded joints were made	(number and date)	Rm, MPa (kp/cm^2)	Value, j / cm^2 (kgf·m / cm2)	Temperature, °C	Sample type	Rm, MPa (kp/cm^2)	Relative extension As, %	Hardness HB

Table continuation

Mechanical tests					Metallographical tests		Welder's stamp
Heat-affected zone (weld adjacent zone)				Evaluation			
Impact-viscosity			Hardness HB				
Value, j / cm2 (kgf·m / cm2)	Temperature, °C	Sample type			Macro or micro research document number and date	Evaluation	

9. Data on non-destructive testing of welded joints

Weld designation	Number and date of the inspection document	Method of inspection	Volume of inspection, %	Defects description	Evaluation

10. Data on other tests and research 11. Data on heat treatment

Element name	Document number and date	Type of heat treatment	Temperature of heat treatment, °C	Speed, °C/h		Holding time, h	Cooling method
				heating	cooling		

12. Data on hydraulic (pneumatic) testing The vessel has successfully passed the following tests

Testing type and conditions		Part of the vessel being tested	
Hydraulic testing	Test pressure, MPa (kp/cm^2)		
	Test medium		
	Temperature of test medium, °C		
	Holding time, h (min)		
Pneumatic testing	Test pressure, MPa (kp/cm^2)		
	Holding time, h (min)		

Vessel position at trial1	horizontal	vertical
Note: indicate "Yes" in the required column.		

13. Conclusion

The vessel is made in accordance with the "Rules for ensuring industrial safety during operation

of the equipment working under pressure "and Design and engineering documentation

_____

__

(name, designation and date of approval of the document)

The vessel was subjected to external and internal inspection and hydraulic (pneumatic) test of probation pressure according to section 12 of this passport.

The vessel is recognized as suitable for work with the parameters specified in this passport.

Technical supervisor _____ _____

(signature) (signature decryption)

Stamp (if available)

Head of the Quality Service _____ _____

(signature) (signature decryption)

"____" _____ 20__

14. Information about the location of the vessel

Name of the organization -owner	Location of the vessel	Installation date

15. Person who provides good operating condition and safe work of the vessel

Number and date of the order of appointment	Position, surname, name and patronymic of the appointed person	Signature

16. Information on installed fixture

Date	Name	Quantity, pieces	Nominal width, mm	Nominal pressure, MPa (kp/cm2))	Material (grade, GOST (State standard) or technical guidance document)	Installation location	Signature of the designated person for good operating condition and safe work of the vessel

17. Other data on vessel installation

a) corrosive environment _____

b) anti-corrosive coating _____

c) thermal insulation _____

d) lining _____

e) scheme of the vessel connection to the installation (line)

_____

18. Information on the replacement and repair of the main elements of the vessel and fixtures

Inspection		Permitted pressure, MPa (kgf / cm^2)	The date of the next inspection
Date	Results		

19. Record of inspection results

Date	Replacement and Repair Information	Signature of the person who conducted the work

20. The vessel registration

The vessel registered as № ___ in _____

(registration authority) _____

pages and _____ drawings numbered and tied together in the passport

_____

_____

(position of the representative the signature of the person ensuring good condition and safe operation of the vessel)

Stamp (if available) "_____" _____ 20__

Annex 4
to order No 822 of the
Minister for Investment and
Development

of the Republic of Kazakhstan,
dated November 27, 2018
Document form

Passport of the boiler (autonomous superheater, economizer)

1. General data

Name and address of the manufacturer	
Year of manufacture	
Type (model)	
Name and purpose	
Factory number	
Estimated lifetime, years	
Estimated resources, h	
of a boiler	
heating surface	
outlet collector	
superheater	
Estimated number of starts	
cold starting	
hot startup	

2. Technical specifications and parameters

Calculated types of fuel and their calorific value MJ / kg, (kcal / kg)			
Starting fuel and its calorific value, MJ / kg, (kcal / kg)			
Calculated pressure, MPa (kgf / cm^2)			
in a drum			
in the terminal header of superheater			
Calculated temperature of superheated steam (liquid), ° C			
Steam capacity, t / h (kg / s)			
Heating capacity, MJ / h (kcal / h)			
Thermal power, W			
Heating surface of a steam boiler, m^2			
Evaporative			
Superheater			
Intermediate superheater			
Economizer			
Heating surface of the boiler, m^2			
Volume, m3	Steam boiler	natural-circulation	water with the maximum permissible level of water in the drum **

			steam with the maximum permissible level of water in the drum
			steam with the maximum permissible level of water in the drum
		monotube	steam
			water
Water boiler			

3. Data on safety valves (devices)

Type of safety valve	Quantity	Installation location	Valve section area, mm2	Coefficient of steam consumption alpha_s or liquid alpha_l	Opening start pressure and opening start pressure range, MPa (kgf / cm^2)
1	2	3	4	5	6

Note. It shall be filled by the manufacturer of the boiler (autonomous superheater, economizer). For boilers, please specify the list of devices to protect against the increase in pressure (or temperature).

4. Water Level Indicator Data

Water Level Indicator type	Quantity	Installation location
1	2	3
Direct action		
Remote action		

5. Data on main reinforcement

Name of reinforcement	Quantity	GOST (State Standard) or technical guidance document (grade)	Nominal width, mm	Nominal pressure, MPa (kp/cm^2)	Working parameters		Material of the body		Installation location
					Pressure, MPa (kp /cm2)	Temperature, °C	Grade	GOST o r NTD	
1	2	3	4	5	6	7	8	9	10

6. Data on the main equipment for measurement, control, alarm, regulation and automatic protection

Name	Quantity	Type (grade)	GOST (State Standard) or technical guidance document
1	2	3	4

Note. It shall be filled in by the manufacturer of the boiler (autonomous superheater, economizer) in case of equipment supply together with the boiler. In other cases, it shall be filled by the owner of the boiler.

7. Feedwater or circulation pumps

Pump type	Manufacturer	Quantity	Maximum allowable water temperature at the inlet to the feed pump,°C	Parameters		Pump drive type (steam, electric, etc.)
				Nominal feed m / h3	Pump head at nominal feed, MPa (kgf / cm2)	
1	2	3	4	5	6	7

Note. It shall be filled by the manufacturer of the boiler (autonomous superheater, economizer) in case of supply of feed or circulation pumps together with the boiler. For power units of thermal power plants, it shall be filled by the owner of the boiler.

8. Data on the boiler main elements, made of sheet steel

Name (boiler shell, head or body, tube-sheet, flue tubes)	Quantity	Size, mm			Material	
		Inner diameter	Wall thickness	Length o r height	Steel grade	GOST (State Standard) or technical guidance document
1	2	3	4	5	6	7

Table continuation

Data on welding			Data on heat treatment			
Welding type	Electrodes and welding wire (type, grade)	Method and control volume	Treatment type	Heat treatment temperature,°C	Soaking period	Cooling method
8	9	10	11	12	13	14

9. Data on the boiler elements, made of pipes

Name (collector, pipe, pipeline, elbow, transition, assembly welded pipe elements)	Quantity	Size, mm			Material	
		Outer diameter	Wall thickness	Length	Steel grade	GOST (State Standard) or technical guidance document
1	2	3	4	5	6	7

Table continuation

Data on welding			Heat treatment data			
Type	Electrodes and welding wire (type, grade, GOST(State Standard) or technical guidance document)	Method and control volume	Type	Heat treatment temperature, ° C	Soaking period	Cooling method

8	9	10	11	12	13	14

10 Data on fittings, covers, flat bottoms, transitions, flanges with fasteners (bolts, studs, nuts)

Name	Number	Dimensions, mm, or specification number	Material	
			Steel grade	GOST (State Standard) or technical guidance document
1	2	3	4	5

Note. Fittings shall be indicated with an internal diameter of 36 mm and more.

11. The results of measurements of boilers' bodies, drums, collectors, which were made of sheet steel or forgings

Name of the boiler element	Form number	Section number (after 1 m length)	Outer(inner) diameter		
			Horizontal	Vertical (at an angle 90°)	Out of roundness, %
1	2	3	4	5	6

Note: For drums with inner diameter less than 1500 mm and working pressure less than 6 MPa (60 kgf / cm2), this table shall not be required to be filled.

12. Manufacturer's conclusion

On the basis of carried out tests and trials, the following information shall be verified:

1. The elements of the boiler or boiler as an assembly are made according to the project-design documentation developed by project organization

_____

(name of the organization-developer of the design documentation)

2. The elements of the boiler or boiler as an assembly have been tested and meet the above standards and technical documentation.

3. The elements of the boiler or boiler as an assembly have been subjected to trial pressure testing ____ MPa (kgf / cm^2).

4. The pipe elements of the boiler have been subjected to measuring control for deviation from the size and shape and for permeability.

5. Elements of the boiler or boiler as an assembly are recognized as suitable for working with the parameters specified in this passport.

Technical Manager Head of Technical Quality Control of the Manufacturer

_____ _____
__

(surname, name, patronymic (if any) (surname, name, patronymic (if any) signature, stamp)

"___" _____20__

The passport contains drawings of the longitudinal and transverse sections and a plan of the boiler indicating the main dimensions and calculations on strength of the boiler elements working under pressure: drums, collectors, pipes of heating surfaces and pipelines within the boiler, built-in separators of direct flow boilers, outer cyclones, desuperheaters, etc.

13. Data on boiler location

Name of the organisation	Boiler location (address of the owner)	Installation date
1	2	3

14. A person ensuring proper condition and safe operation of the boiler

Number and Date of the Purpose order	Position, surname, name, patronymic (if any)	Date of the Rules knowledge check	Signature
1	2	3	4

15. Information about installed reinforcement (during repair or reconstruction)

Name	Installation date	Quantity	Nominal width , mm, type, grade	Nominal pressure, MPa (kp/cm^2))	Material		Installation location	Signature of the person ensuring proper condition and safe operation
					Grade	GOST o r NTD		
1	2	3	4	5	6	7	8	9

16. Replacement and Repair Information of the boiler parts, operating under pressure

Document date and number	Replacement and Repair Information	Signature of the person ensuring proper condition and safe operation
1	2	3

Note: Documents confirming the quality of the newly installed (instead of worn-out) elements of the boiler, used in the repair of materials, electrodes, welding, are stored on a par with the passport.

17. Drawings of the boiler room (plan, cross-section and longitudinal section) and the certificate of installation quality are attached to the passport

18. The results of the inspection

Inspection Date	The results of the inspection and signature of the person who conducted the inspection	Permitted pressure, MPa (kgf / cm^2)	The date of the next inspection
1	2	3	4

19. Registration

Boiler (autonomous superheater, economizer) registered as № _____
in_____
__
(registered authority) certificate of registration attached to the passport)
In total _____
pages and _____ drawings are numbered and tied together on _____ sheets and separate documents on _____ sheets according to the attached inventory.

_____ _____
(position, surname, name, patronymic of the person, providing security) (signature)
Stamp of the organisation (if available)

Annex 5
to order No. 822 of the
Minister for Investment and
Development
of the Republic of Kazakhstan,
dated November 27, 2018
Document form

Estimated type of fuel and its calorific value, MJ / kg (kcal / kg)	
Type of furnace. Furnace heat release volume, MJ / (m^3 x h)	
Fuel consumption, m^3 / h (t / h)	
Type and characteristics of the furnace installation (burners)	
Heating surface, m2	
volume, m3	
Data on the position of the lowest liquid level	According to the drawing №
Steam boiler	
Working pressure, MPa (kgf / cm^2)	
Design pressure, MPa (kgf / cm^2)	

Test pressure, MPa (kgf / cm^2)	
Nominal temperature of steam leaving the boiler, ° C	
Nominal temperature of the liquid at the boiler inlet, ° C	
Nominal steam capacity, t / h	
Minimum allowed steam output, t / h	
Maximum allowable steam output, t / h	
Liquid boiler	
Working pressure, MPa (kgf / cm^2)	
Design pressure, MPa (kgf / cm^2)	
Test pressure, MPa (kgf / cm^2)	
Nominal temperature of the liquid at the boiler inlet, ° C	
Nominal temperature of the fluid leaving the boiler, ° C	
Nominal heat output, kW	
Minimum heat output, kW	
Maximum heat output, kW	
Minimum allowable flow rate of liquid, m^3 / h	
Maximum allowable flow rate of liquid, m^3 / h	
Maximum allowable hydraulic resistance of the boiler at the nominal output, MPa (kgf / cm^2)	
Minimum allowable pressure at nominal temperature, MPa (kgf / cm^2)	
Maximum allowable temperature of liquid at the boiler outlet, ° C	

Boiler passport 1. General data

Consumer name and address	
Name and address of manufacturer	
Order number of the boiler according to the manufacturer's numbering system	Year of manufacture 20__
Type and system	
Heat conductor name	
Form and constructive dimensions as per drawing	

2. Technical specifications and parameters 3. Data on safety valves

№	Type of safety valves	Quantity	Installation location	Inside nominal diameter, mm	Cross-sectional area taken when calculating the capacity, mm^2	Coefficient of consumption of steam, gas alpha_s or liquid alpha_l	Opening start pressure and opening start pressure range, MPa (kgf / cm^2)	Passport number (certificate)
1	2	3	4	5	6	7	8	9

4. Liquid Level Indicator Data

№	Level indicator type	Indicators number	Installation location	Valid operating parameters		Number of the Passport (certificate)
				Pressure, MPa (kgf / cm^2))	Temperature, °C	
1	2	3	4	5	6	7
	Direct action					
	Remote action					

5. Data on main reinforcement

№	Name of reinforcement and its position number on the drawing	Quantity	Standard Designation	Inside nominal diameter, mm	Nominal pressure, MPa (kp/cm^2)	Working parameters		Material of the body		Number of the Passport (certificate)
						Pressure, MPa (kgf / cm^2))	Temperature, °C	Grade	Standard Designation	
1	2	3	4	5	6	7	8	9	10	11

6. Type and basic data on the equipment supplied with the boiler for measuring, control, alarm, regulation and automatic protection

7. Data on heat carrier

Name of the heat carrier (chemical formula or manufacturer)
Maximum allowable application temperature, ° C
Auto-ignition temperature in open space, ° C
Solidification temperature, ° C
Boiling point or initial boiling point at 0.1013 MPa (1 kgf / cm^2), ° C
Heat of vaporization, kJ / kg
Viscosity within the application temperature, Pa x s
Lower limit of explosive concentration at 0.1013 MPa (1 kgf / cm^2), ° C
The change (curve) of the boiling point depending on the pressure
Data on the physical-chemical properties that have a harmful effect on the human body
Other data affecting the safe operation of the boiler (for example, corrosion activity, etc.)

8. Feeding or circulating pumps of the heat carrier

№	Pump type	Pumps quantity	Maximum and minimum allowable temperature at the pump inlet, ° C	Parameters	
				Nominal feed, m^3 / h	Pump head at nominal feed MPa (kgf / cm^2)
1	2	3	4	5	6

9. Data on the main and additive materials used in the manufacture of elements for boilers working under pressure

№	Name of the element	Drawing number and element position	Material		Melting or batch number	Certificate number and dat, name of organization that issued it	Data on mechanical tests by certificate			
							At temperature 20°C			
			Grade	Standard designation			sigma _0,2 MPa (kgf / mm2)	sigma _в, MPa (kgf / m^2)	delta _ 5, %	psi , %
1	2	3	4	5	6	7	8	9	10	11

Table continuation

Data on mechanical tests by the certificate							Chemical composition			Additional data (ultrasonic testing, hardness test, initial heat treatment condition)
At temperature 20°C				At design temperature of the wall						
The bending angle and the diameter of the mandrel or other technological tests	Impact strength, (40), j / cm^2 (kgf·m / cm2)									
	Before aging	After aging	Sample type	sigma (t)_ 0,2, MPa	sigma_n , 100 000 MPa	sigma_DP , MPa (kgf / mm2), t,				
12	13	14	15	16	17	18	19	20	21	22

Note. Designations: sigma_0,2 - yield strength at 20 ° C; Sigma_v - tensile strength at 20 ° C; sigma_5 - tensile breaking strength; psi - relative narrowing; sigma (t) _0.2 yield strength at temperature t; Sigma_n - technical creep limit at temperature t for 100,000 h; Sigma_DP is a technical limit of long-term strength at temperature t per 100,000 h.

10. Measurement chart for drums, casings and collectors made of sheet steel

№	Name	Number		Diameter			Edge offset of welded butt joints	
		sketch	section	nominal (outer or inner), mm	permissible deviation, %	measured deviation, % (+-)	longitudinal	
							permissible	measured
1	2	3		4	5	6	7	8

Table continuation

Edge offset of welded butt joints		Out-of-roundness, %		Deviation of the longitudinal section profile, mm		Out of flat, mm	
circular		permissible	measured				
permissible	measured			permissible	measured	permissible	measured
9	10	11	12	13	14	15	16

Note. The sketch of the element is attached

11. The results of tests and control of welded joints

№	Name of the element and number of the drawing, sketch (with indication o f connections for which control connections were made	Certificate number and date	Mechanical tests							Metallographic analysis		Welder ' s stamp
			Welded joint				Weld metal		Evaluation			
			sigma _в, MPa (kgf / mm^2)	Impact strength, (40), j / cm^2 (kgf·m / cm^2)	Sample type	Diameter o f sending a n d angle bend	sigma _в, MPa (kgf / mm^2)	delta _5, %		Number and Date of macro or micro research document	Evaluation	
1	2	3	4	5	6	7	8	9	10	11	12	13

Notes: 1. The sketches shall be attached (if necessary) indicating the location of welded joints, micrographs of structures with a description of the latter.

2. When replacing the test of welded joints of pipes for impact strength by a test for flattening or bending, the results shall be entered into the "Impact strength" chart.

3. In the "Evaluation" charts, the reference shall be made to the relevant regulatory and technical documentation.

12. Data on non-destructive testing of welded joints

№	The name of the element and the number of drawing (sketch)		Method of control	Volume of control	Detected defects	Evaluation
1	2	3	4	5	6	7

13. Other tests and studies 14. Data on heat treatment

№							Heat treatment			

	Name of the element	Number of drawing	Number and Date of certificate of heat treatment	Grade of material	Type of heat treatment	Heating rate,°C/h	temperature, °C	Soaking time, h	Cooling rate, °C	Cooling method
1	2	3	4	5	6	7	8	9	10	11

15. Other data 15.1. The results of hydraulic tests

№	Name of the element	Test pressure, MPa (kp/cm2)	Soaking time, min	Water temperature,° C	Date	Evaluation
1	2	3	4	5	6	7

Note. When conducting a hydraulic test after installation at the boiler installation site, the test report shall be drawn up by the organization that conducted the test and shall be attached to the passport.

15.2. Data relating to devices for heat carrier extinguishing in case of its ignition

15.3. Data on the device cooling the furnace in the event of an accident

16. Manufacturer Conclusion

On the basis of carried out trials and tests, the following information shall be verified:

1. The elements of the boiler or boiler as an assembly are made according to the project-design documentation developed by project organization

_____

__

(name of the organization-developer of the design documentation)

2. The elements of the boiler or boiler as an assembly have been tested and meet the above standards and technical documentation.

3. The elements of the boiler or boiler as an assembly have been subjected to trial pressure testing ____ MPa (kgf / cm^2).

4. The pipe elements of the boiler have been subjected to measuring control for deviation from the size and shape and for permeability.

5. Elements of the boiler or boiler as an assembly are recognized as suitable for working with the parameters specified in this passport.

Technical Manager Head of Technical Quality Control

_____ _____

__

(surname, name, patronymic (if any) (surname, name, patronymic (if any) signature, stamp)

"___" _____20__

The passport contains drawings of the longitudinal and transverse sections and a plan of the boiler indicating the main dimensions and calculations on strength of the boiler elements working under pressure: drums, collectors, pipes of heating surfaces and pipelines within the boiler, built-in separators of direct flow boilers, outer cyclones, desuperheaters, etc.

17. Data on boiler location

Name of the organisation	Boiler location (address of the owner)	Installation date
1	2	3

18. A person ensuring proper condition and safe operation of the boiler

Number and Date of the Purpose order	Position, surname, name, patronymic (if any)	Date of the Rules knowledge check	Signature
1	2	3	4

19. Information about installed reinforcement (during repair or reconstruction)

Name	Quantity	Nominal width, mm, тип, марка	Nominal pressure, MPa (kp/cm2))	Material		Installation location	Signature of the person ensuring proper condition and safe operation
				Grade	GOST (State Standard) or technical guidance document		
1	2	3	4	5	6	7	8

20. Replacement and Repair Information of the boiler parts, operating under pressure

Date and number of the document	Replacement and Repair Information	Signature of the person ensuring proper condition and safe operation
1	2	3

Note: Documents confirming the quality of the newly installed (instead of worn-out) elements of the boiler, used in the repair of materials, electrodes, welding, shall be stored on a par with the passport.

21.Drawings of the boiler room (plan, cross-section and longitudinal section) and the certificate of installation quality shall be attached to the passport

22. The results of the inspection

Inspection Date	The results of the inspection and signature of the person who conducted the inspection	Permitted pressure, MPa (kgf / cm2)	The date of the next inspection
1	2	3	4

23. Registration

Boiler (autonomous superheater, economizer) registered as № _____
in_____
__
(registered authority)
_____pages and drawings numbered and tid together in the passport on _____ sheets and separate documents on _____ sheets according to the attached inventory.

_____ _____
(position, surname, name, patronymic of the person, (signature)
providing security)
Stamp of the organisation (if available)

Annex 6
to order No. 822 of the
Minister for Investment and
Development
of the Republic of Kazakhstan,
dated November 27, 2018
Document form

Pipeline passport

registration number _____
_
Name and address of the pipeline owner's organization
_____
__
Purpose of the pipeline _____
__
Workspace _____
__
Operating environment parameters:
pressure, MPa (kgf / cm^2) _____
_
temperature, ° C _____
__
Estimated lifetime, years * _____
__
Estimated resource, h * _____
__

Estimated number of starts _____

The list of schemes, drawings, certificates and other documents for manufacture and installation of the pipeline, submitted during registration

_____

Stamp location (if available) _____

Signature of the organization technical management (pipeline owner)
"___" _____ 20__ _____
* Shall be filled according to the project organization information.

The person who provides good condition and safe operation of the pipeline

Number and Date of the Purpose order	Position, surname, name, patronymic	Date of the knowledge test of the boiler inspection rules	Signature of the Responsible Person
1	2	3	4

Records of the pipeline repair and reconstruction

Date of the record	The list of works carried out during the repair and reconstruction of the pipeline; Date of carrying out	Signature of the Responsible Person
1	2	3

Records of pipeline inspection results

Date of the inspection	Inspection results	The date of the next inspection
1	2	3

in total _____pages and drawings _____ are numbered and tied together on _____ ___sheets

_____

(position of the registering person and his signature)
Stamp of the organisation (if available)
"___" _____ 20__ .

Annex 7
to order No. 822 of the
Minister for Investment and
Development
of the Republic of Kazakhstan,
dated November 27, 2018
Document form

Crane passport

The passport shall be published in a rigid cover on sheets of format 210 x 297 mm
Passport format of the printing edition shall be 218x296 mm
Passport cover

_____

(crane name)

_____

(crane index) passport*

_____

(passport designation)

* This passport shall be a model, on the basis of which the manufacturer must compile a passport for the type of cranes produced by him according to the regulatory documentation of the parent organization, including the list of information contained in this sample, only those that relate to this type of crane. If necessary, the passport shall include additional information characterizing the specificity of the produced crane. The passport shall be filled in the State and Russian languages.

Title page

Place of the trademark (emblem) of the enterprise

_____

(name of manufacturer)

_____

(name, type of crane)

_____

(crane index) passport

_____

(passport designation)

_____

(registration number)

When transferring the crane to another owner or renting the crane with the owner's functions transfer, this passport shall be transferred along with the crane.

Back title page

Attention of the crane owner!

1. The owner of the crane shall always have a passport on hand or it shall always be kept in the organization (at the enterprise, in the cooperative, joint-stock company, partnership, private person) that has received the land for rent, together with the functions of the owner.

2. The crane operating permit shall be obtained in the manner prescribed by the Rules for Construction and Safe Operation of Cranes.

3 _____

_

(other information that requires special attention of the crane owner)

A place
for drawing a general view of the crane
in working position
with basic dimensions indicating

format 210 x 297 (218 x 290) мм

1. General information

1.1. Manufacturer and its address _____

_

1.2. Type of crane _____

__

1.3. Crane index _____

__

(indicate its execution)

1.4. Factory number _____

__

1.5. Year of manufacture _____

__

1.6. Purpose of the crane _____

___

_____

__

1.7.Classification Group (mode) of the crane _____

__

1.7.1. Classification Group (mode) of mechanisms: _____

__

main hoist _____

auxiliary hoist _____

change in radius _____

crane movement _____

trolley movement _____

crane swing _____

1.8. Type of drive _____

(for jib self-propelled cranes indicate the type of drive mechanism
movement and mechanisms located on the turntable)
1.9. Environment in which the crane can be operated:
temperature ____ ° C.
relative humidity _____

explosion hazard _____

fire hazard _____

Other characteristics of the environment as needed _____

1.10. Permissible wind speed, m / s:
for working conditions (including wind gusts), the corresponding threshold
actuation of the anemometer installed on the crane)_____

for the working condition of the crane, not equipped with an anemometer,
at a height of 10 m _____

for the idle state of the crane at a height of 10 m _____

_____

(for modular cranes, data for specific versions shall be given)
1.11. Permissible slope of the site for the installation of a boom of self-propelled

crane,% (degrees):

when working with outriggers _____

—

when working without outriggers

1.12. Requirements for the site on which the movement of a crane with a cargo shall be allowed:

pressure on the ground (specific), Pa (kg / cm^2) _____

—

slope,% (degrees) _____

—

1.13 Limiting the simultaneous execution of work operations

_____

—

_____

—

1.14. Electric current, voltage and number of phases:

power circuit _____

—

control circuit _____

—

working light circuit _____

—

repair lighting circuit _____

—

2. Main technical data and characteristics of the crane

2.1. Main characteristics of the crane *:

maximum lifting capacity of the main hoist, t

_____

—

maximum lifting capacity of the auxiliary hoist, t

_____

—

lifting capacity at maximum boom reach, t _____

—

maximum load moment, m _____

—

maximum height of the hoist, m _____

lifting height at maximum reach m _____

maximum lowering depth, m _____

maximum boom reach, m _____

boom reach with maximum load capacity, m _____

minimum boom reach, m _____

crane span, m _____

cantilever outreach, m _____

* For modular cranes, the data shall be provided for specific versions,
for jib self-propelled cranes - for the main boom.

2.2. Load-lifting characteristics (compiled for all combinations of work conditions of the crane, which are provided for its operation)

Load-lifting characteristics

Place for tables, graphs and diagrams of the crane load-lifting characteristics

High-altitude characteristics

Place for tables, graphs and diagrams of the crane lift heights

2.2.1. Maximum weight of the load with which the boom section extension shall be allowed

, t (boom design shall be indicated : telescopic, telescopic

with extension, with mechanical extension, as well as working on outriggers or without them)

_____

_____

2.2.2. The maximum mass of the load with which a movement of the self-propelled boom crane shall be allowed, t (indicate state of the site, movement speed,

boom position relative to the axis of motion) _____

2.3. Geometric parameters of the crane:

base, m _____

outrigger base, m _____

rut, m _____

tail radius, m _____

(shall be indicated when the counterweight is in pushed-in or pulled-out position)
turning radius, m _____

smallest radius of curvature of the curved section of the rail track, m

_____

_____

Place for a crane scheme and tables with values of basic crane dimensions and parameters of its maneuverability *
* it shall be compulsorily performed for jib self-propelled cranes.
2.4. Speed _____

(for mechanisms with multiple speed,

_____

indicate all their values or the changes range)

Speed of lifting, lowering and landing of a load, m / s (m / min)

Parts of line	Speed of the main lift			Speed of auxiliary lift		
	nominal	increased**	landing	nominal	increased**	landing

** Specify the conditions under which work with the increased speed shall be allowed (or ensured)

Traveling speed, m / s (m / min or km / h):
crane with a load on the hook _____
crane without load (working) _____

transport speed (under its own power) _____

(indicate speed range _____

—

from min to max)

crane transport (in tow) _____

—

cargo trolley with a load of maximum weight _____

—

extension / retracting of boom section _____

—

changes of handling radius(average) _____

—

rotational speed rad / s (rpm) _____

—

(indicated for all implements of working equipment)

2.5. Time for full change of handling radius (for main boom):

from min to max, c (min) _____

—

from min to max, c (min) _____

—

2.6. Swing angle, rad (degree) _____

—

2.7. Gradeability, rad (degree) _____

—

(shall be indicated for all options

_____

—

of transportation or their range)

2.8. Place of control: _____

—

when working _____

—

during installation and testing _____

—

when moving a jib self-propelled crane:

in operation _____

—

in transport mode _____

—

on outriggers _____

—

2.9. Control method (indicate control methods: mechanical, electric, hydraulic, pneumatic, etc., as applied to a specific mechanism or group of mechanisms) _____

—

2.10. The method of current lead to the crane and mechanisms _____

–

2.11. Stability characteristics _____

—

Load moment, kN·M (m·m)	Load stability	Own stability
Holding Mu, * (during outreach), m Tipping over M0 * (during outreach), m		

* The value of the moments characterizing the load and its own stability shall be indicated for the working equipment and the position of the boom (outreach) M, when the ratio of moments is closest to 1 (one).

2.12 Mass of the crane and its main parts, t:

the constructive mass of the crane (for a jib self-propelled crane shall be indicated with main boom) _____

—

crane mass total (for a jib self-propelled crane shall be indicated with the main boom in a full ready state) _____

—

Counterweight mass _____

—

Ballast mass _____

—

Mass of the main crane assembly parts transported separately

_____

—

Weight of crane in transport position _____

—

2.13. Estimated wheel load on the rail, kN (tf) _____

—

2.14.Load of chassis axis on the base in transport position

Execution of crane	Load, kN (ts)		
	total	front axis	rear axis

2.15. Average ground pressure, Pa (for crawler cranes)

_____

2.16. Other information as needed (for example, data on metal, ballast drawings, etc.)_____

3. Technical data and characteristics of assemblies and parts

3.1. Engines of power plants and mechanisms

3.1.1. Internal combustion engines (parameter values at sea level);

appointment _____

___

type and symbol _____

___

rated power, kW (hp) _____

___

rotating frequency, rad / s (rpm) _____

___

maximum torque, N · m (kgf · m) _____

___

rotating frequency rad / s (rpm) _____

___

specific fuel consumption, g / kV · h _____

___

starter: type and symbol _____

___

power, kW (HP) _____

___

air filter type _____

__

fuel tank capacity, l _____

__

rechargeable batteries: type and symbol _____

__

voltage, P _____

___

nominal capacity, _____

__

quantity _____

__

specific energy consumption per hour of crane operation, kWh / h _____

_____

_____

connection to the engine with transmission:

type _____

_____

designation _____

_____

hour meter, designation _____

_____

3.12. Generators and electric motors

Parameters	Electric motors of the power plant	Generators	Electric drive mechanism
Purpose(mechanism on which the engine is installed) Type and symbol Type of the current Voltage, V Rated current, A Frequency Hz Rated power kW Rotational frequency, rad / s (rpm) PV,% for 10 min Execution (normal, waterproof, explosion-proof, fireproof etc.) Protection degree according to GOST 17494 Type of connection to the engine with transmission: name type and designation			

3.1.3. Total rated power of electric motor, kW

_____

3.1.4. Hydraulic pumps and motors

Parameters	Hydraulic pump	Hydraulic motors
Purpose Quantity Type and symbol Ultimate moment, N · m (for hydraulic motor) Rated power consumption, kW (for hydraulic pumps) Nominal pressure of the working fluid - discharge pressure, Pa (kgf / cm2) Nominal production flow (consumption) l / min Rotational frequency, rad / s (rpm) Direction of rotation		

3.1.5. Hydraulic cylinders:

Purpose

_____

Quantity _____

Type and symbol _____

Hydraulic cylinder diameter, mm _____

piston stroke, m _____

force, kN (ts) _____

nominal pressure of working fluid - discharge pressure, Pa (kgf / cm^2)

_____

fluid grade _____

3.2. Schemes _____

3.2.1. Electrical schematic diagram

Place for the scheme

3.2.1.1. List of electrical equipment elements

Designation on scheme	Name and brief technical description	Type	Quantity	Note

3.2.1.2. Electric wiring diagrams

Place for the diagram

3.2.2. Hydraulic circuit diagram

Place for the scheme

3.2.2.1. List of hydraulic equipment

Designation on scheme	Name and brief technical description	Type	Quantity	Note

3.2.3. Pneumatic schematic diagram

Place for the scheme

3.2.3.1. List of elements of pneumatic equipment

Designation on scheme	Name and brief technical description	Type	Quantity	Note

3.2.4. Kinematic scheme (the kinematic scheme shall specify the installation of bearings, a list of which shall be issued as a specification for the scheme)

Place for the scheme

3.2.4.1. Characteristics of gear trains

Position number on scheme	Designation in the drawing	Name of details	Unit, mm	Teeth quantity	Material, grade	Heat treatment (hardness of teeth)

3.2.4.2. Characteristics of chain sprockets

Position number on scheme	Designation in the drawing	Name of details	Unit, mm	Teeth quantity	Material, grade	Heat treatment (hardness of teeth)

3.2.4.3. Characteristics of reduction gearboxes

Position number on scheme	Name, type	Designation in the drawing	Gear ratio

3.2.4.4. Characteristics of the brakes:

the mechanism where the brake is installed _____

_

number of brakes _____

__

type, system (automatic, controlled, normally open or closed,shoe brake, disk-shaped, etc.
)

_____

__

diameter of brake pulley, disc, mm _____

__

braking factor of margin:

of cargo winch _____

_

of boom hoist _____

_

brake drive:

type _____

_

tension,H _____

_

progress of the executive body, mm _____

__

brake path of the mechanism _____

__

3.2.5. Schemes of reeving and characteristics of ropes and chains (schemes of reeving of cargo polyspasts for main and auxiliary hoists, polyspasts of boom hoists, jib, etc.; diagrams shall indicate the sizes of drums, blocks and methods of ropes and chains fastening)

Place for schemes

3.2.5.1. Characteristics of the ropes (completed according to the certificate of the rope manufacturer):

purpose of the rope (main, auxiliary hoist, boom, etc.)

_____

The rope design and designation of the standard_____

diameter, mm _____

length, m _____

temporary resistance of wires to breaking, N / mm^2 _____

breaking strength of the rope as a whole, _____

estimated rope tension,kN _____

utilization factor (ultimate factor of safety):

estimated _____

normative _____

coating of the wire surface (ozh, g, s according to GOST (State Standard))

3.2.5.2. The characteristic of chains (shall be filled under certificates of the enterprise - manufacturer of the chain

chain purpose and designation on the scheme _____

chain design and designation of the standard _____

diameter (gauge) of a link or diameter of a roller, mm _____

chain pitch, mm _____

chain length, m _____

breaking strength of the chain as a whole, _____

estimated rope tension,kN _____

—

coefficient of ultimate factor of safety:
estimated _____

—

normative _____

—

3.3. Load-gripping devices (shall be filled in by the certificates of the enterprise-manufacturer)
3.3.1. Hooks: mechanisms _____

—

type (single-horned, double-horned, forged, lamellar, etc.)

_____

—

number of hook and designation of the standard

_____

—

rated load capacity, t _____

—

factory number (certificate, year of manufacture) _____

—

image of the Technical Control Department stamp of the crane manufacturer

_____

—

3.3.2. Grab buckets:
type _____

—

bucket capacity, m^3 _____

—

the type of materials for which transshipment the grapple is intended and their maximum bulk mass, kN / m^3 (ts / m^3).

_____

—

weight of grapple, tons _____

—

mass of material to be scooped, t _____

—

factory number _____

image of Technical Control Department stamp _____

3.3.3. Cargo electromagnets:
type _____

current supply source:
type _____

power, kWt _____

supply current:
type _____

voltage, V _____

electromagnet mass, t _____

lifting force, kN (ts) _____

lifting materials:
chips _____

scrap metal _____

cast iron ingots _____

maximum temperature of the lifted load, ° C _____
factory number _____

image of TCD stamp _____

3.3.4. Other load gripping devices (spreaders, automatic grippers, etc.)
3.4. Devices, safety devices and signaling devices. Safety Equipment
3.4.1. Limit switches *

					Position number

Type: lever spindle, etc. (electrical circuit)	Mechanism with which the switch is functionally connected (Installation location)	Distance from the crane load-lifting equipment, trolley up to the stop at the time of engine shutdown (m, deg, etc.)	Blocking	Quantity	on the schematic electrical diagram

* For jib self-propelled cranes, the table shall be filled with all types and versions of the working equipment supplied with the crane.

3.4.2. Load-lifting limiter:

mechanisms disabled by the limiter _____

_

designation (grade, type, modification) and serial number _____

_

system _____

_

maximum overload point at which _____

__

limiter is triggered,% _____

__

availability of sound, light warning signalling

_____

__

overload at which the warning signal is activated

_____

__

3.4.3. Security contacts

Installation location (cabin, remote control, weathervan frame, etc.)	Type	Purpose	Position number on the schematics electrical diagram

3.4.4. Stops and buffers:

mechanisms which

restrict movement _____

__

of support stops construction (rigid, spring, hydraulic, etc.)

_____

__

maximum stroke, mm _____

__

(for spring hydraulic and other moving structures)

_____

__

Installation location _____

—

of the buffers:
construction (rigid, spring, hydraulic, etc.)

_____

—

maximum stroke, mm (for spring hydraulic and etc. buffers)

_____

—

3.4.5. Other safety devices

Name	Type, grade, drive method	Purpose
DPC (device of crane protection against dangerous voltage) Anemometer (wind alarm) Anti-theft devices Parking brake Caterpillar trucks stoppers Imbalance limiter of the travelling gantry crane Other safety devices		

3.4.6. Indicators

Name	Type	Purpose
Load-lifting and radius indicator The crane tilt indicator Indicator of load on the crane load-gripping part Other information indicators		

3.4.7. Signal and communication devices

Name	Type, designation, device system	Purpose, trigger conditions
Radio station Sound signal Overall light signaling Other devices		

3.5. Cabins:
location _____

—

purpose _____

—

type, constructive type (open, closed, and so on. n.)

_____

—

number of seats _____

—

type, characteristic of glazing _____

—

insulation characteristic (thermal, sound insulation, etc.) _____

characteristics of microclimate systems in the cabin
(ventilation, heating, air conditioning, etc.) _____

characteristic of a seat _____

other equipment (wipers, fire extinguishers, etc.)

3.6. Data on the metal of the main elements of the crane metalwork
(filled in by certificates of the manufacturer of the material)

Name and designation of angles and elements	Type, thickness of metal, standard	Material grade, category, group, strength class	Material grade standard	Certificate number

4. Document of Acceptance (certificate)

Crane _____
(name, type, index)

Serial number _____

manufactured in accordance with technical standards _____

The crane was tested according to the program _____

and recognized as suitable for operation with the parameters specified in the passport *

_____

Warranty period _____ months.

Service life at 1,5-shift work in the passport mode _____ years

Resource before the first overhaul _____ hours

Stamp place _____

(signature)

* It shall be filled in cases when the manufacturer sends the crane in assembled form or if the company makes a complete assembly of the crane.

5. Documentation supplied by the manufacturer

5.1. Documentation included in the crane passport:

1) installation diagram of the ballast and counterweight with an indication of permission by the mass and the deviation of the plates gravity center, precautionary coloring and inscriptions applied to the plates;

2) drawings of ballast and counterweight.

5.2. The documentation supplied with the crane passport:

1) the passport (instruction) of the load-lifting limiter (load moment) and the scheme of its action;

2) a passport (formular) and instructions for installation and operation of the device recording parameters of the crane;

3) vehicle chassis passport;

4) passport of the internal combustion engine;

5) passport (instructions) of equipment and safety devices ;

6) instruction manual of the crane;

7) crane installation manual;

8) instructions for the rail track installation;

9) an album of drawings of wearing parts;

10) a list of spare parts, tools and accessories;

11) an album of electrical drawings (if necessary);

12) other documents (if necessary).

Data on the crane location*

The name of the enterprise (organization) - the owner of the crane or surname and initials of the private person	The crane location (address of the owner)	Installation date

* At least 2 pages.

Information on appointment of engineering and technical workers responsible for maintaining the crane in good condition*

Number and Date of the appointment order or contract with the organization	Surname, initials	Position	Number and validity of the certificate	Signature

* At least 5 pages.

Information on the repair of metal structures, replacement of mechanisms, ropes, load-gripping body *

Date	Information on the nature of repair and replacement of elements of the crane	Data on acceptance of the crane from repair (Date, document number)	Signature of the technical engineer responsible for the maintenance of the crane in good condition

* At least 6 pages.

Note: Documents confirming the quality of the newly installed mechanisms, ropes and other elements of the crane, as well as the materials used in the repair (metal rolling, electrodes, welding wire, etc.) and the conclusion on the quality of welding, shall be stored along with the passport.

Record of the results of the technical inspection*

Date of inspection	Results of inspection	The date of the next inspection (partial and full)

* At least 32 pages.

Note: In the same section, the results of a special inspection of a crane that has spent a standard service life (technical resource) are recorded.

Registration

(separate page)

Crane is registered as № _____

in_____

__

(registered authority)

In total, _____ pages has been numbered_____ _____sheets tied together in the passport

Including the drawings on _____ sheets

Stamp of the organisation (if available) _____

(signature, position)

_____ _____

(Date) (surname, initials of the registrant)

Annex 8
to order No. 822 of the
Minister for Investment and
Development
of the Republic of Kazakhstan,
dated November 27, 2018
Document form

Passport of the elevator

Permission to use the elevator from "___" _____ № _____

_

issued by _____

__

(name of issuing authority)

1. General information

Manufacturer (supplier)	
Type and model of elevator	
Factory number	
Month and year of manufacture	
Allowable temperature (minimum and maximum) (° C) in: 1. engine room 2. lift shaft	
Environment in which the elevator can be operated (relative humidity, dust saturation, aggressive, explosive, fire hazardous)	

Regulatory documents, according to which the elevator is made (Rules, GOST (State Standard), regulatory documents, etc.)	
Assigned lifetime	
Rated load capacity, kg	
Number of passengers (max)	
Nominal speed of the moving cabin	
Cabin speed in "revision mode", m / s	
Control system	
Number of stops	
The number of the elevator shaft doors	
Hoisting height, m	

Electrical circuits	Kind of current	Voltage, V; (±)	Frequency , Hz
On the elevator introduction device			
Power circuit: 1. elevator drive 2. door drive			
Control circuit			
Lighting circuit for 1. cabins 2. lift shaft 3. repair work			
Alarm circuit			

2. Main technical data and characteristics of elevator equipment

1. Winch

Type (geared, gearless, with traction sheave, with friction pulley, winding drum, with an asterisk)
Serial number
Year of manufacture
Gear ratio
Center distance of transmission, mm
Rated torque at the output shaft, Nm
Diameter of leading body, mm
Diameter of the side block mm
Weight, kg

2. Brake

Type (shoe, disc, cone-, etc.)	
Diameter of brake pulley (disk, drum), mm	
Braking torque, N / m	

3. Electric motors

Purpose	Electric motor	
	of winch	of door drive

Type		
Kind of current		
Voltage, V		
Rated current, A		
Frequency Hz		
Power, kWt		
Permissible overheating of the motor windings (° C) (insulation class)		
Rotation frequency, rpm		
Duty cycle (%)		
Inclusions per hour		
Execution (normal waterproof, dustproof, marine, etc.) indicating the degree of protection		
Weight, kg		

4. Shaft doors:

Construction (swing, sliding, combined, single, double or multi-flaps)
The size of the doorway in the light (width x height), mm
Opening / closing method (manual, semi-automatic, automatic)

5. Cabin

Internal dimensions, mm width depth height
Door construction (hinged, sliding, single, double or multi-flaps)
The method of opening or closing doors (manual, semi-automatic automatic)
Door drive (electric hydraulic, pneumatic, spring, etc.)
Cabin type (through passage, not through)
Weight, kg

6. Counterweight

Weight, kg (assembled)	

7. Traction and counterbalancing elements

Name	Traction elements			Counterbalancing elements
	Cabin	Counterweight	Stopper	
Kind (rope, chain etc.)				
Type (filled in according to the documentation of the traction element manufacturer)				
Construction (filled in according to the documentation of the traction element manufacturer)				
Symbol				
Diameter, pitch, dimensions, mm				
Number of items, pcs				
The length of one element, including the length required for fastening, m				

Breaking strength (breaking load), H				
Reserve strength ratio (for traction elements)				

3. Safety devices

8. Mechanical devices

Name and characteristics		Cabin	Counterweight
Catchers	Type (sharp, sharp with shock-absorbing way, smooth braking, designation		
	Powered by(speed limiter,a device triggered by slack of all traction ropes)		
Speed limiter	type (centrifugal, pendulum and etc.) designation		
	Speed of the cabin(counterweight) at which the speed limiter is activated, m / s		
	Maximum Minimum		
Buffer	Type (fixed stop, energy-storage type, energy-dispersive etc.)		
	Height in free state, mm		
	Quantity, pieces		

9. Electrical safety devices installed in the elevator

Cabin Level Control: 1. at the lowest floor platform 2. at the highest floor platform
Control of the shaft door closing
Automatic lock control of the shaft door
Control of the closing of the shaft door leaf that is not equipped with a lock
Control of the shaft’s emergency door closing
Control of closing the door for maintenance in the shaft
Control of the inspection hatch closing in the shaft
Control of closing the cabin door
Control of shaft door closing
Control on cabin speed limiter actuation
Control on reset of the cab speed limiter to starting position
To stop the elevator (switch, "Stop" button)
Catcher actuation control
Control of breakage or relative movement of traction elements
Control on break or slack of the rope in the speed limiter
Tension control of the balancing ropes
Monitoring the device operation on limiting the tension device's surge of the balancing ropes
Control on accession of the removable device for manual movement of the cabin (the position of the removable steering wheel)
Control on return of energy-dispersive type buffer to its original position
Disconnection of control circuits from the lift shaft

Disconnection of control circuit from the lift pit
Disconnection of control circuits from the block room
Monitoring the position of the service platform
Blocking device position control

10. The list of documents attached to the elevator passport

The title of document	Document designation	Number of pages
Installation drawing		
Schematic diagram with a list of elements		
List of operational documents		

Annex 9
to order No. 822 of the
Minister for Investment and
Development
of the Republic of Kazakhstan,
dated November 27, 2018
Document form

Passport of the lift

Title page

Place of the trademark (emblem) of the enterprise

Country _____

_____

(name of manufacturer)

_____

(name, type of lift()

_____

(lift index)

passport _____

(passport designation)

Registration number _____

When transferring the lift (skylift) to another owner or renting the lift with the owner's functions transfer, this passport shall be transferred along with the lift.

Attention of the lift owner!

1. A passport shall be kept at all times with the owner of the lift or in the organization (at the enterprise, cooperative, joint-stock company, partnership, private person) who has received the lift for rent, together with the functions of the owner.

2.1. _____

_____

2.2. _____

_____

3. _____

(other information that requires special attention of the lift owner)

List of documentation supplied with the crane passport

Document name	Document designation	Number of pages
Technical description and instruction manual of the lift		
T e c h n i c a l p a s s p o r t		
The user manual of the car		
Album of the fast wearing parts		
SPTA Set List		

1. General data

1.1. Enterprise-manufacturer
1.2. Type of the lift
1.3. Factory number
1.4. Year of manufacture
1.5. Purpose of the lift
1.6. Design of the working equipment
1.7. Design of the undercarriage
1.8. Type of drive

1.9. Environment where a lift can operate: temperature - the highest the lowest, C relative air humidity, % explosion hazard fire hazard
1.10. Permissible wind speed at a height of 10 m: for the working condition of the lift

2. Main technical data and characteristics of assembly units and parts 2.1 Engines of power plants. Engines (engine) of internal combustion

2.2. General data

2.1.1. Load capacity, kg * (N)
2.1.2. Working lifting height, m *
2.1.3. Radius, м*
2.1.4. Base, m
2.1.5. Front and rear wheel track, m
2.1.6. Ground clearance, m
2.1.7. Minimum turning radius, m
2.1.8. The maximum slope which is overcome by a lift,%
2.1.9. Maximum transport speed of the lift movement, m / s (km / h)
2.1.10. Support contour, m
2.1.11. Time of lifting an elevator cradle to the greatest height,
2.1.12 Maximum rotational speed of the turning part, s-1 (rpm)
2.1.13. Angle of rotation, deg.

2.1.14. Place for control
2.1.15. Control method (electric, hydraulic)
2.1.17. Control fuel consumption mode: transport mode, l / 100 km working mode, l / hour
2.1.18. Stability coefficient
2.1.19. Weight of the lift, kg

* The lift service area shall be given in the passport.

2.3 Rechargeable batteries

3.2.1. Type and symbol
3.2.2. Voltage, V
3.2.3. Nominal capacity, f
3.2.4. Number

3.4. Electric motor (electric motors)

3.3.1 Purpose
3.3.2. Type and symbol
3.3.3. Kind of current
3.3.4. Voltage, V
3.3.5. Rated current, A
3.3.6. Frequency, Hz

3.4. Hydraulic pumps and motors

3.4.1. Purpose

3.4.2. Quantity, ps.
3.4.3. Type and symbol
3.4.4. Ultimate moment, N · m
3.4.5. Nominal pressure of working fluid – (discharge pressure), Pa (kgf / cm2)
3.4.6. Nominal production flow (consumption) l / min)

3.5. Hydraulic cylinders:

3.5.1. Purpose
3.5.2. Quantity, ps.
3.5.3. Type and symbol
3.5.4. Rod diameter, mm
3.5.5. Piston stroke, mm
3.5.6. Force, kN (ts)
3.5.7. Nominal pressure of working fluid – (discharge pressure), Pa (kgf / cm2)

3.6. Steel ropes

3.6.1. Purpose of the rope (tracking system, rope system, etc.)
3.6.2. Rope design and designation of the standard
3.6.3. Diameter, mm
3.6.4. Length, mm
3.6.5. Temporary resistance of wires to breaking, N /
3.6.6. Breaking strength of the rope as a whole, H
3.6.7. Ultimate coefficient of safety: by rules / in fact

* Filled according to the documentation of the organisation-supplier

3.7. Characteristic of chains

3.7.1. Chain purpose
3.7.2. Chain design and designation of the standard
3.7.3. Diameter (gauge) of a link or diameter of a roller, mm
3.7.4. Chain pitch, mm
3.7.5. Chain length, mm (links number, p-s)
3.7.6. Breaking strength of the chain, кН
3.7.7. Estimated rope tension, kN
3.7.8. Ultimate coefficient of safety

3.8. Characteristics of gear trains

Name of assembly unit	Designation in the drawing	Name	Unit, mm	Teeth number	Material	Heat treatment (hardness of teeth)

3.9. Characteristics of chain sprockets

Name of assembly unit	Normative document number or designation in the drawing	Name	Unit, mm	Teeth number	Material	Heat treatment (hardness of teeth)

3.10. Load-gripping devices*

3.10.1. Hook (single-horned, etc.)
3.10.2. Designation of the normative document and number of hook by the standard
3.10.3. Rated load capacity, kg
3.10.4. Factory number

3.10.5. image of the Technical Control Department stamp

* Filled according to the documentation of the organisation-supplier

3.11. Brakes:

3.11.1. Mechanism where the brake is installed
3.11.2. Type of the brake

4. Safety device

4.1. Device against overloads
4.2. The tracking system of the cradle orientations in vertical position
4.3. Device for limiting service area
4.4. The locking device of the lifting and rotation of the boom when lift is not set on supports
4.5. Device for blocking the lifting of supports at the working position of the boom
4.6. Device on emergency lowering a cradle in case of failure of the hydraulic system or engine
4.7. Device protecting additional supports of the lift from spontaneous moving during the lift operation
4.8. Device of index of a tilt angle of the elevator
4.9. The device of the engine emergency stop with control from a cradle and from the lower panel
4.10. Anemometer (for lifts with a lifting height of 22 m)

4.1. Signal and communication devices

name	type	purpose	Installation location

5. Data on the metal of the main (design) elements of the lift metal structures*

Name and designation of	Type, thickness of metal, the designation	Material grade, category,	The designation of the regulatory		Electrodes, welding wire (type, grade), the

the assembly unit	of the regulatory document	group, strength class	document on the material grade	Certificate number	designation of the regulatory document