APPROVED
By the order of the CEO of
Ukrainian Energy Exchange
Limited Liability Company
dated June 08, 2026 No. 17-OCH

REGULATION

on the use of electronic signature and electronic seal in electronic interaction with the Ukrainian Energy Exchange Limited Liability Company

Kyiv 2026

CONTENT

1. General provisions 3

1.1. Purpose of the Regulation 3

1.2. Scope of application of the Regulation 3

1.3. Public access to information on the procedure for electronic interaction 4

1.4. Mandatory nature of the Regulation 4

1.5. Terms and definitions 5

2. General principles and features of electronic document management 6

2.1. General principles of electronic document management 6

2.2. Electronic signature as a mandatory requisite of an electronic document 8

2.3. The ratio of electronic and paper documents 8

3. Organization of the use of electronic signatures and electronic seals 8

3.1. General principles 8

3.2. Responsibility for organizing the use of electronic signatures and electronic seals 9

3.3. Persons authorized to sign electronic documents on behalf of the Exchange and use the Exchange's electronic seal 10

3.4 Organization of verification of electronic signatures, electronic seals and signatory authorities 10

3.5. Documenting and recording actions 11

4. Types of electronic signatures and electronic seals used in interaction with the Exchange 11

4.1. General provisions on types of electronic signatures and electronic seals 11

4.2. General provisions on the use of electronic signatures and electronic seals 12

4.3. Using the QES 14

4.4. Using AES with a qualified certificate 14

4.5. Using a simple ES 15

4.6. Use of electronic seals 17

5. Creating, sending, receiving and storing electronic documents 18

5.1. General requirements for creating electronic documents 18

5.2. Sequence of signing an electronic document 19

5.3. Sending and receiving electronic documents 19

5.4. Confirmation of receipt of an electronic document 20

5.5. Providing a copy of an electronic document to a client or counterparty 21

5.6. Storage of electronic documents 21

6. Creation and certification of copies of documents 21

6.1. Creating and certifying an electronic copy of a paper document 21

6.2. Creating and certifying a paper copy of an electronic document 22

6.3. Detection of changes in an electronic document or a copy of such a document 22

7. Final provisions 23

1. General provisions

1.1. Purpose of the Regulation

1.1.1. This Regulation on the use of electronic signatures and electronic seals in electronic interaction with the Ukrainian Energy Exchange Limited Liability Company (hereinafter referred to as the Regulation) determine the organizational, legal and procedural principles for the use of electronic signatures, electronic seals, the creation, processing, sending, receiving, registration, verification, storage of electronic documents, as well as the creation and certification of copies of electronic documents in the activities of the Ukrainian Energy Exchange Limited Liability Company (hereinafter referred to as the Exchange).

1.1.2. The purpose of this Regulations is to ensure proper organization of electronic interaction with the Exchange, the lawful use of electronic signatures and electronic seals, confirmation of the integrity and authenticity of electronic documents, as well as compliance with the requirements of the legislation of Ukraine (in particular, regulatory legal acts of the National Securities and Stock Market Commission (hereinafter referred to as the NSSMC)).

1.1.3. This Regulation has been developed taking into account the requirements of the Law of Ukraine “On Commodity Exchanges”, the Law of Ukraine “On Capital Markets and Organized Commodity Markets”, the Law of Ukraine “On Electronic Documents and Electronic Document Management”, the Law of Ukraine “On Electronic Identification and Electronic Trust Services”, **Procedure for the use of electronic signatures by participants in capital markets and professional participants in organized commodity markets,** approved by the resolution of the National Securities and Exchange Commission of Ukraine dated May 20, 2025 No. 17/21/2298/K03 (hereinafter referred to as the National Securities and Exchange Commission Procedure), as well as other laws, by-laws (in particular the NSSMC) and the Rules of the Ukrainian Energy Exchange Limited Liability Company (hereinafter referred to as the Exchange Rules) and other internal documents of the Exchange that determine the organizational, legal and procedural principles of using electronic trust services and electronic document management.

1.2. Scope of application of the Regulation

1.2.1. This Regulation applies to electronic interaction between the Exchange and clients/counterparties, and other persons who are subjects of electronic interaction, including during:

- creation of electronic documents;
- signing of electronic documents with electronic signatures;
- use of electronic seals;
- reception, registration, processing, sending and storage of electronic documents;
- verification of electronic signatures and electronic seals;
- verification of the integrity and authenticity of electronic documents;
- creation and certification of electronic copies of paper documents;

- creation and certification of paper copies of electronic documents;

1.2.2. Electronic interaction with the Exchange can be carried out through:

- official e-mail of the Exchange;
- personal account of the client, trading participant or other person;
- electronic trading systems of the Exchange;
- external electronic document management services, in particular “Vchazno”, “M.E.Doc” or other similar services used by the Exchange;
- other information/information and communication systems and channels of electronic interaction, defined or agreed between the Exchange and the relevant client, potential client, counterparty or other person who is the subject of electronic interaction.

1.2.3. This Regulation do not limit the right of the Exchange, clients, potential clients, counterparties, or other persons to conclude, amend, supplement, terminate, execute transactions or execute documents in paper form, unless otherwise established by law, regulatory legal acts of the NSSMC or an agreement.

1.3. Public access to information on the procedure for electronic interaction

1.3.1. This Regulation is an internal document of the Exchange, which is mandatory for execution by employees of the Exchange, including authorized representatives of the Exchange, as well as authorized persons acting on behalf of the Exchange within the limits of the powers granted to them.

1.3.2. The Exchange ensures unhindered access of clients and potential clients to information on the procedure for electronic interaction with the Exchange by posting this Regulation on the official website of the Exchange.

1.4. Mandatory nature of the Regulation

1.4.1. Employees of the Exchange, including authorized representatives of the Exchange, and authorized persons acting on behalf of the Exchange on the basis of a power of attorney and/or a transaction, are obliged to comply with the requirements of this Regulation when creating, signing, accepting, registering, processing, sending, verifying and storing electronic documents.

1.4.2. Violation of the requirements of this Regulation by employees of the Exchange (including authorized representatives of the Exchange) or authorized persons may be grounds for applying liability measures in accordance with the legislation of Ukraine, employment contracts, job descriptions, powers of attorney, agreements (or other transactions) and internal documents of the Exchange.

1.4.3. Clients, potential clients, counterparties and other persons who enter into electronic interaction with the Exchange are obliged to comply with the requirements of this Regulation insofar as they relate to compliance with the rules of electronic interaction.

1.4.4. Violation of the requirements of this Regulation by clients, potential clients, counterparties and other persons who enter into electronic interaction with the Exchange may result in non-acceptance of electronic documents sent by them or refusal to accept such documents for execution.

1.5. Terms and definitions

1.5.1. In this Regulation, the terms used have the following meanings:

1) **Analogue of a handwritten signature (AHS)** is a type of simple electronic signature within the meaning of the Exchange Rules and other internal documents of the Exchange, which is defined by the Exchange as an electronic analogue of the handwritten signature of a participant in trading/auctions, a person who has been granted access to the Exchange's electronic trading system, which is used by such participant (such person) to enter the Exchange's electronic trading system and allows identifying such participant (such person), as well as establishing the absence of distortion of information in the documents of such participant (such person) in the electronic trading system, which are considered to be signed by such participant (such person) with an electronic signature within the meaning of the Law of Ukraine "On Electronic Documents and Electronic Document Management".

2) **Exchange** - Ukrainian Energy Exchange Limited Liability Company, which is a professional participant in organized commodity markets and operates in accordance with the legislation of Ukraine, the charter and other internal documents of the Exchange.

3) **Electronic trading system of the Exchange** - information and communication system used by the Exchange to organize and conduct exchange trades/auctions and includes relevant information systems, software modules, technical, network and other components that ensure the organization and conduct of trades/auctions, electronic interaction, reception, registration, processing, storage and transmission of information and electronic documents.

4) **Client** - client of the Exchange, user of services provided by the Exchange on organized commodity markets, as well as a person who has a contractual or other legal relationship with the Exchange regarding the receipt of other services of the Exchange.

5) **Counterparty** - any legal entity or individual that has relations with the Exchange related to the Exchange's activities on organized commodity markets or other business activities of the Exchange.

6) **Operation key** - a type of simple electronic signature within the meaning of the Exchange Rules and other internal documents of the Exchange, consisting of 32 (thirty-two) characters, generated in the relevant electronic trading system of the Exchange when confirming the actions of a bidder, electronic auction participant or other authorized person using an analogue of a handwritten signature, advanced electronic signature with a qualified certificate or a qualified electronic signature and is used for automatic signing of legally significant electronic actions of such a person in the relevant trading system of the Exchange, except for cases when the Exchange Rules,

this Regulation, other internal documents of the Exchange or an agreement concluded with the Exchange provide for the use of another type of electronic signature for the relevant electronic document or electronic action.

7) **Subject of electronic interaction** - The Exchange, a client of the Exchange, a potential client of the Exchange, a counterparty of the Exchange, an authorized person of the client/counterparty (broker) or another person who creates, signs, sends, receives, processes, verifies, stores or uses electronic documents in interaction with the Exchange.

8) **Authorized person of the Exchange** - a person who is not an employee of the Exchange, but who, on the basis of a power of attorney or a transaction, is authorized to sign contracts and other documents with clients/counterparties of the Exchange on behalf of the Exchange.

9) **Authorized representative of the Exchange** - an employee of the Exchange whose powers, according to internal documents or based on a power of attorney, include signing contracts and other documents with clients/counterparties of the Exchange on behalf of the Exchange.

1.5.2. The requirements of the NSSMC Procedure for information systems apply to the relevant components/modules of electronic trading systems and other Exchange systems used to receive, register, process, store, send electronic documents and ensure electronic interaction.

1.5.3. Other terms in this Regulation are used in the meanings given in the Law of Ukraine “On Electronic Identification and Electronic Trust Services”, the Law of Ukraine “On State Regulation of Capital Markets and Organized Commodity Markets”, the Law of Ukraine “On Capital Markets and Organized Commodity Markets”, the Law of Ukraine “On Electronic Documents and Electronic Document Flow” and regulatory legal acts of the NSSMC.

2. General principles and features of electronic document management

2.1. General principles of electronic document management

2.1.1. The Exchange's electronic document flow is based on the following principles:

- legality;
- authenticity of the origin of the electronic document;
- integrity of the electronic document;
- possibility of verification of the electronic signature and electronic seal;
- identification of the signatory in cases provided for by the legislation of Ukraine, the contract or this Regulation;
- protection of restricted information;
- ensuring the evidence of electronic interaction;
- use of official or agreed channels of electronic interaction;
- application of the minimum required level of access to the Exchange's information and information and communication systems;

- recording of significant actions in the Exchange's information and information and communication systems in cases specified in these Regulations and internal documents of the Exchange.

2.1.2. The Exchange provides the ability to verify the integrity and authenticity of electronic documents created using technologies defined or agreed upon by the Exchange.

2.1.3. If an electronic document is created, signed or processed using technology specified by the Exchange, the obligation to organize proper verification of the integrity and authenticity of such electronic document shall be imposed on the Exchange within the requirements of the legislation of Ukraine and this Regulation.

2.1.4. The exchange ensures the acceptance, registration, processing, storage and sending of electronic documents in compliance with the requirements of the legislation of Ukraine on the protection of restricted information, including personal data, professional and commercial secrets.

2.1.5. The Exchange has the right to use open network services to receive/provide/send information that may be classified as restricted information, as defined in clause 2.1.4. of this Regulation, if the following conditions are simultaneously met:

1) electronic interaction is carried out exclusively between the Exchange and the client/counterparty;

2) the Exchange has previously received written permission from the client/counterparty to perform such actions or the agreement with the client/counterparty contains such permission from the client/counterparty;

3) the Exchange ensures compliance with the requirements of the legislation of Ukraine in the field of information protection, information security and cyber protection.

2.1.6. The technology for using open network services to obtain/provide information specified in clause 2.1.4. of this Regulation is defined in the internal documents of the Exchange.

2.1.7. The Exchange uses only those types of electronic signature and electronic seal that are expressly defined by this Regulation. The use of other types of electronic signature or electronic seal provided for by the NSSMC Procedure is permitted only after making appropriate amendments to this Regulation and other internal documents of the Exchange, if necessary.

2.1.8. The Exchange is liable for any damage caused to the client/counterparty while using the open network service technology implemented by the Exchange. In the event that the client/counterparty denies the fact of voluntary transmission of information through an open network service, the Exchange shall provide proof of such voluntary transmission using a contract, statement, electronic message, technical logs, event logs, confirmations from the relevant information and/or information and communication system, or other appropriate evidence.

2.2. Electronic signature as a mandatory requisite of an electronic document

2.2.1. An electronic signature is a mandatory requirement of an electronic document.

2.2.2. The person who electronically signs an electronic document confirms that:

- has read the entire text of the electronic document;
- understands the content of the electronic document;
- has consciously used her electronic signature in the context provided for by the relevant electronic document (signed, approved, agreed, endorsed, certified the document or confirmed familiarization with it, depending on the content of the relevant document and the action being taken);
- has no objections to the text of the electronic document, or her objections are included in the document as a separate detail.

2.3. The ratio of electronic and paper documents

2.3.1. The use of an electronic document does not deprive participants in electronic interaction of the right to issue the relevant document in paper form, unless this is prohibited by the legislation of Ukraine.

2.3.2. An electronic document may be amended, supplemented, terminated, executed or replaced by a paper document, if this does not contradict the legislation of Ukraine, the contract and the essence of the relevant transaction or document.

3. Organization of the use of electronic signatures and electronic seals

3.1. General principles

3.1.1. The Exchange organizes the use of electronic signatures and electronic seals in the processes of creating, signing, certifying, accepting, registering, processing, sending, storing and verifying electronic documents in accordance with the legislation of Ukraine, this Regulation, the Exchange Rules, other internal documents of the Exchange and agreements concluded with the Exchange.

3.1.2. The use of electronic signatures and electronic seals in the activities of the Exchange is carried out for the purpose of:

- creation, signing, approval, approval, certification, submission, acceptance, processing, registration, storage and verification of electronic documents;

- confirmation of legally significant electronic actions in the Exchange's electronic trading systems and in other information and communication and information systems of the Exchange;

- confirmation of the origin of electronic data;

- confirmation of the integrity of electronic documents and electronic data;

- confirmation of the powers of the signatory or representative of a legal entity in cases provided for by the legislation of Ukraine, the agreement or this Regulation;

- certification of electronic copies of paper documents;

- ensuring the provability of electronic interaction between the Exchange, clients, potential clients, counterparties and other persons.

3.1.3. The Exchange independently determines the permissible types of electronic signatures and electronic seals for certain types of electronic documents, electronic actions, information and information and communication systems (in particular, electronic trading systems), directions of trade and channels of electronic interaction, taking into account the requirements of the legislation of Ukraine, this Regulation, the Exchange Rules, other internal documents of the Exchange and agreements concluded with the Exchange.

3.1.4. If the legislation of Ukraine, the Exchange Rules, other internal documents of the Exchange or an agreement concluded with the Exchange stipulates the mandatory use of a certain type of electronic signature or electronic seal for a relevant document, transaction, electronic action or method of electronic interaction, then the use of another type of electronic signature or electronic seal is not allowed.

3.2. Responsibility for organizing the use of electronic signatures and electronic seals

3.2.1. The overall responsibility for organizing the use of electronic signatures and electronic seals in the activities of the Exchange lies with the head of the Exchange in accordance with the requirements of the legislation of Ukraine.

3.2.2. The Manager of the Exchange ensures the organization of the use of electronic signatures and electronic seals by the Exchange, Exchange employees, authorized representatives of the Exchange and authorized persons acting on behalf of the Exchange.

3.2.3. Within the limits of his powers, the Exchange Manager ensures:

- approval of this Regulation and amendments thereto;

- determination of structural units or officials responsible for the implementation of individual procedures provided for by this Regulation;

- organization of control over the use of electronic signatures and electronic seals;
- approval or organization of approval of the list of persons entitled to sign electronic documents on behalf of the Exchange;
- approval or organization of approval of the list of persons entitled to use the Exchange's electronic seals;
- organization of control over access to the Exchange's information and information and communication systems;
- organization of revision of this Regulation in cases provided for by this Regulation or the legislation of Ukraine.

3.3. Persons authorized to sign electronic documents on behalf of the Exchange and use the Exchange's electronic seal

3.3.1. The right to sign electronic documents on behalf of the Exchange is vested in authorized persons of the Exchange and authorized representatives of the Exchange, acting within the limits of the powers granted to them in accordance with the legislation of Ukraine, the Exchange's charter, employment contract, job description, power of attorney, decision of the Exchange's bodies, agreement or other appropriate document.

3.3.2. Signing electronic documents on behalf of the Exchange or using the Exchange's electronic seal by a person who has not been granted appropriate authority is not permitted.

3.4 Organization of verification of electronic signatures, electronic seals and signatory authorities

3.4.1. The Exchange ensures verification of electronic signatures, electronic seals, electronic time stamps, integrity of electronic documents and powers of signatories in accordance with the procedure established by the legislation of Ukraine, this Regulation, the Exchange Rules, other internal documents of the Exchange and agreements concluded with the Exchange.

3.4.2. Verification of the electronic signature or electronic seal is carried out before the electronic document is accepted for execution.

3.4.3. The Exchange has the right not to accept an electronic document for execution if:

- the electronic signature or electronic seal has not been verified;
- it is impossible to verify the validity of the electronic signature certificate or electronic seal in cases where such verification is mandatory;
- a violation of the integrity of the electronic document has been detected;
- the signatory's authority has not been confirmed;

- the document has been signed with a type of electronic signature that is not allowed for such a document;

- the document has been submitted through a channel that is not official or approved for the relevant type of electronic interaction.

3.4.4. The detailed procedure for checking electronic signatures, electronic seals, electronic time stamps, the integrity of electronic documents and the authority of signatories is determined by the relevant sections of this Regulation.

3.5. Documenting and recording actions

3.5.1. The Exchange ensures the recording of legally significant electronic actions, actions of users of the Exchange's information and information and communication systems, as well as actions related to the granting, revision, change, cancellation and control of access rights to such systems, in cases and to the extent determined by these Regulations, other internal documents of the Exchange or agreements concluded with the Exchange.

3.5.2. Recording of actions can be carried out by maintaining event logs, technical logs, registers, electronic messages, information and communication and information system records or other electronic evidence that allows establishing the fact, date, time, user, content or result of the relevant electronic action.

3.5.3. The volume of information recorded in the Exchange's information, communication and information systems is determined taking into account the technical capabilities of the relevant system, the requirements of Ukrainian legislation and the Exchange's internal documents.

3.5.4. The procedure for granting, reviewing, revoking and controlling access to the Exchange's information and communication and information systems used for receiving, registering, processing, storing and sending electronic documents, including the procedure for identification, authentication, authorization, access management, defining typical functions and access rights, controlling granted access rights and logging actions during access management, is determined by the Exchange's internal documents.

4. Types of electronic signatures and electronic seals used in interaction with the Exchange

4.1. General provisions on types of electronic signatures and electronic seals

4.1.1. The following types of electronic signatures **may be used** in the activities of the Exchange and in interaction with the Exchange:

1) qualified electronic signature (hereinafter referred to as QES);

2) advanced electronic signature with a qualified certificate (hereinafter referred to as advanced electronic signature with a qualified certificate);
3) simple electronic signature (hereinafter referred to as simple electronic signature).

4.1.2. In the activities of the Exchange and in interaction with the Exchange, a digital handwritten signature, an advanced electronic signature, an advanced electronic seal **are not used**, unless otherwise expressly specified in a separate internal document of the Exchange, approved taking into account the requirements of the NSSMC Procedure.

4.1.3. **The use of a simple electronic signature** is carried out on the basis of an agreement between the Exchange and the client, counterparty or a person who intends to become a client or counterparty of the Exchange. The agreement is concluded in writing after identification and verification of the person (in accordance with the requirements of the legislation of Ukraine) with whom such an agreement is concluded:

1) in the form of a paper document with handwritten signatures of the parties, or

2) as an electronic document with the parties' QES, or

3) as an electronic document with the AES with a qualified certificate of the client/counterparty and the QES of the authorized representative of the Exchange, or

4) as an electronic document using any types of ES for which an agreement has already been concluded between the Exchange and the client/counterparty in accordance with the requirements of one of subparagraphs 1 - 3 of this paragraph of the Regulation.

4.1.4. The conclusion of a separate agreement regarding the use by the client/counterparty of a QES, AES with a qualified certificate, a qualified electronic seal, an electronic seal with a qualified certificate is not required provided that the requirements of the legislation of Ukraine and this Regulation are complied with.

4.2. General provisions on the use of electronic signatures and electronic seals

4.2.1. The authorized person/authorized representative of the Exchange, to impose QES and AES with a qualified certificate on behalf of the Exchange, is obliged to use a qualified public key certificate containing the legal entity code in the Unified State Register of Legal Entities, Individual Entrepreneurs and Public Organizations (hereinafter referred to as the legal entity identification code) assigned to the Exchange.

4.2.3. The creation of electronic documents for permanent and long-term (over 10 years) storage is carried out using the QES of an authorized person and/or the qualified electronic seal of the Exchange, which ensures the possibility of verifying the relevant QES and/or qualified electronic seal in the long term in accordance with the requirements of the legislation of Ukraine for electronic documents that, according to the legislation of Ukraine, are subject to transfer for archival storage.

4.2.4. A natural person acting on behalf of a legal entity - a client/counterparty (hereinafter referred to as the client/counterparty representative) has the right to use a qualified public key certificate that meets one of the following requirements to impose a QES and AES with a qualified certificate:

1) the qualified public key certificate of the client/counterparty representative contains the identification code of the legal entity;
2) the qualified public key certificate of the client/counterparty representative does not contain the identification code of the legal entity and the QES/AES affixed by the client/counterparty representative with a qualified certificate is certified by the qualified electronic seal of the legal entity - the client/counterparty;
3) the qualified public key certificate of the client/counterparty representative does not contain the identification code of the legal entity and the Exchange has all the necessary documents confirming the authority of the client/counterparty representative to sign the relevant document on behalf of the legal entity - the client/counterparty.

4.2.5. A legal entity - a client/counterparty, whose representative uses a qualified public key certificate containing the identification code of this legal entity, is obliged to ensure that an application for revocation of the qualified public key certificate of the legal entity representative is submitted to the qualified electronic trust service provider in the event of one of the following events:

1) changes in data entered into the qualified public key certificate of the representative of a legal entity;

2) dismissal of an employee of a legal entity;

3) termination of representation of a legal entity.

4.2.6. Until the qualified public key certificate of a representative of a legal entity is revoked by a qualified provider of electronic trust services, it is considered that the powers of such a representative in relations with the Exchange or other third parties have not been revoked, and the actions committed by such a representative are considered to have been committed by the subject of electronic interaction.

4.2.7. Documents for which the legislation of Ukraine or the regulatory legal acts of the NSSMC stipulate the mandatory use of a qualified electronic signature or another specified type of electronic signature cannot be signed with another type of electronic signature.

4.2.8. The Exchange has the right to demand re-signing of an electronic document with an appropriate type of electronic signature if the document was signed in violation of the requirements of the legislation of Ukraine, this Regulation, the agreement or the rules of the relevant information or information and communication system of the Exchange.

4.3. Using the QES

4.3.1. The exchange ensures the acceptance, registration, and confirmation of receipt of electronic documents with attached QESs in compliance with the requirements of the legislation of Ukraine in the field of electronic document management.

4.3.2. Verification and confirmation of the QES is carried out in accordance with the requirements of the Law of Ukraine "On Electronic Identification and Electronic Trust Services".

4.3.3. A qualified public key certificate must comply with the requirements of the Law of Ukraine "On Electronic Identification and Electronic Trust Services".

4.3.4. The signatory is prohibited from signing an electronic document if the signatory's qualified public key certificate is invalid or it is impossible to obtain information about its status.

4.4. Using AES with a qualified certificate

4.4.1. Subjects of electronic interaction have the right to use AES with a qualified certificate in cases where such a right is established by the legislation of Ukraine.

4.4.2. Subjects of electronic interaction are not entitled to use AES with a qualified certificate if at least one of the following conditions is met:

1) the AES with a qualified certificate is not included in the list of ESs that can be used to sign relevant electronic documents in accordance with the requirements of the regulatory legal acts of the NSSMC;

2) in accordance with the requirements of the law, the relevant document must be created in the form of a paper document and contain the person's handwritten signature.

4.4.3. To use a AES with a qualified certificate, subjects of electronic interaction are required to obtain from a qualified electronic trust service provider a qualified electronic trust service for the formation, verification and confirmation of the validity of a qualified certificate for an electronic signature or seal.

4.4.4. Verification and confirmation of AES with a qualified certificate are carried out within the framework of obtaining a qualified electronic trust service for creating, verifying and confirming a qualified electronic signature or seal in accordance with the requirements of the Law of Ukraine “On Electronic Identification and Electronic Trust Services”.

4.4.5. A qualified public key certificate used to create a AES with a qualified certificate must comply with the requirements of the Law of Ukraine “On Electronic Identification and Electronic Trust Services”.

4.4.6. The signatory is obliged to use a qualified electronic time stamp when signing an electronic document with a qualified certificate.

4.4.7. When applying the QES with a qualified certificate, the signatory is obliged to verify the validity of his qualified public key certificate in accordance with the requirements of the Law of Ukraine “On Electronic Identification and Electronic Trust Services”.

4.4.8. The signer is prohibited from imposing a AES with a qualified certificate if the signer's qualified public key certificate is invalid or it is impossible to obtain information about its status.

4.4.9. In the process of confirming a AES with a qualified certificate, the validity of such a signature is confirmed if all of the following conditions are met:

1) use to create a AES with a qualified certificate of a qualified public key certificate of the signatory, which meets the requirements established by the Law of Ukraine “On Electronic Identification and Electronic Trust Services”;
2) issuance of a qualified public key certificate of the signer by a qualified electronic trust service provider and its validity at the time of creation of the AES with a qualified certificate;
3) the correspondence of the public key value to its value contained in the signer's qualified public key certificate;
4) correct entry of a unique set of data that identifies the signer into the signer's qualified public key certificate;
5) indication in the qualified certificate of the signer's public key about the use of a pseudonym in it (if it was used by a person at the time of creation of the AES with a qualified certificate);
6) the integrity of the electronic data to which this AES with a qualified certificate is linked has not been compromised;
7) compliance with the requirements established by the Law of Ukraine “On Electronic Identification and Electronic Trust Services”.

4.5. Using a simple ES

4.5.1. Clients, potential clients, counterparties, participants in trades/auctions, non-residents and other persons have the right to use simple electronic signature in interaction with the Exchange in cases provided for by the NSSMC Procedure, the Exchange Rules, this Regulation, other internal documents of the Exchange and the agreement concluded with the Exchange.

4.5.2. The Exchange in its activities may provide for the use of various types, forms or technologies of simple electronic data processing used in the relevant information systems/electronic trading systems of the Exchange.

4.5.3. Simple ES includes the AHS and the operational key, which are used to confirm legally significant electronic actions in the Exchange's information systems and electronic trading systems.

4.5.4. AHS may be used as a simple electronic signature in the relevant information systems/electronic trading systems of the Exchange, in particular to confirm the actions of an electronic auction participant, a participant in electronic exchange trading (in particular, but not

exclusively, a non-resident legal entity) or another person who has been granted access to the relevant information system/electronic trading system of the Exchange, provided that such person consents to the use of an analogue of a handwritten signature in the manner specified in this Regulation and signs an agreement with the Exchange on the use of a simple electronic signature.

4.5.5 An operational key is a type of simple electronic signature used in the relevant electronic trading systems of the Exchange for automatic signing of legally significant electronic actions of a bidder, electronic auction participant or other authorized person within the limits specified by the Exchange Rules, other internal documents of the Exchange or an agreement concluded with the Exchange.

4.5.6. The operational key is generated after authorization of a bidder, electronic auction participant or other authorized person in the relevant electronic trading system of the Exchange using AHS, AES with a qualified certificate or QES.

4.5.7. Simple electronic signature is not used to sign electronic documents or legally significant electronic actions for which the legislation of Ukraine, the Exchange Rules or other internal documents of the Exchange provide for the use of a QES, a AES with a qualified certificate or another specified type of electronic signature.

4.5.8. The use of a simple electronic payment system in interaction with the Exchange is carried out exclusively on the basis of an agreement between the Exchange and the client/counterparty or a person intending to become a client or counterparty of the Exchange, taking into account the requirements of this Regulation.

4.5.9. The contract for the use of a simple electronic signature must necessarily contain:

1) conditions and order/procedure for recognition by the Exchange and the client/counterparty of transactions, electronic documents or legally significant electronic actions using simple electronic electronic signatures;
2) conditions for the allocation of risks of losses that may be caused to signatories or third parties in the event of the use of a simple electronic signature.

4.5.10. The technology for using simple electronic signatures must provide the signatory, when signing or confirming a legally significant electronic action, with control over the electronic data being signed or confirmed, as well as control over the electronic data used to create the simple electronic signature.

4.5.11. The electronic data used to create a simple ES must be unique, uniquely linked to the signatory and not linked to any other person.

4.5.12. A simple ES must provide unambiguous identification of the signatory in accordance with the legislation of Ukraine, the Exchange Rules, this Regulation, other internal documents of the

Exchange and the agreement concluded with the Exchange regulating the relevant electronic interaction.

4.5.13. The Exchange ensures the proof of the integrity, authenticity and authorship of an electronic document or a legally significant electronic action signed or confirmed by a simple electronic signature, within the limits of the technology defined or agreed upon by the Exchange's internal documents.

4.5.14. To prove the fact of identification of the signatory when using a simple electronic signature, the Exchange may use a set of data from the relevant information systems/electronic trading systems of the Exchange, including the account, user role, date and time of the action, registers, electronic messages, session identifier, IP address (if available), technical log and other data recording the content and result of the electronic action.

4.6. Use of electronic seals

4.6.1. The following types of electronic seals may be used in the activities of the Exchange and in interaction with the Exchange:

1) qualified electronic seal;
2) advanced electronic seal with qualified certificate.

4.6.2. The Exchange uses a qualified electronic seal in cases specified by the legislation of Ukraine, these Regulations or other internal documents of the Exchange.

4.6.3. A qualified electronic seal may be used, in particular, if necessary:

- ensure the authenticity of the origin of electronic data to verify the validity of the electronic signature on an electronic document;
- certify that copies of documents correspond to the originals;
- confirm the authority of the representative of the legal entity to use the electronic signature in the context provided for by the relevant document (signing, approval, consent, endorsement, certification, familiarization).

4.6.4. An advanced electronic seal with a qualified certificate may be used by the Exchange in cases where the legislation of Ukraine, this Regulation or other internal documents of the Exchange do not provide for the mandatory use of exclusively a qualified electronic seal.

4.6.5. In order to comply with the requirements of the law, the Exchange has the right to establish in its internal documents a requirement for the use by the Exchange clients of a qualified electronic seal or an advanced electronic seal based on a qualified electronic seal certificate, in the relevant direction (section) of the Exchange and/or for a specific exchange product/derivative contract (group of exchange products/derivative contracts).

4.6.6. A qualified electronic seal certificate must comply with the requirements of the Law of Ukraine “On Electronic Identification and Electronic Trust Services” and contain a mark that such a certificate has been created as qualified for the use of an electronic seal.

4.6.7. The use of the Exchange's qualified electronic seal/advanced Exchange electronic seal with a qualified certificate is carried out by an employee of the Exchange or an authorized person who has been granted the appropriate powers.

4.6.8. The list of Exchange employees and authorized persons who are granted the right to use the Exchange's qualified electronic seal/advanced Exchange electronic seal with a qualified certificate is approved by an internal document of the Exchange, an order, instruction or decision of the authorized body.

4.6.9. The Exchange has the right to use more than one qualified electronic seal and/or more than one advanced electronic seal with a qualified certificate.

4.6.10. When affixing a qualified electronic seal or an advanced electronic seal with a qualified certificate, the subject of electronic interaction is obliged to verify the validity of the corresponding qualified electronic seal certificate in accordance with the Law of Ukraine “On Electronic Identification and Electronic Trust Services”.

4.6.11. The subject of electronic interaction is prohibited from affixing a qualified electronic seal or an advanced electronic seal with a qualified certificate if the corresponding qualified electronic seal certificate is invalid or it is impossible to obtain information about its status.

4.6.12. The subject of electronic interaction is obliged to ensure the use of a qualified electronic time stamp in cases of affixing a qualified electronic seal or an advanced electronic seal with a qualified certificate, specified in clause 4.6.3. of this Regulation.

4.6.13. Verification and confirmation of a qualified electronic seal are carried out in accordance with the requirements of the Law of Ukraine “On Electronic Identification and Electronic Trust Services”.

4.6.14. Verification and confirmation of an advanced electronic seal with a qualified certificate are carried out within the framework of obtaining a qualified electronic trust service for creating, verifying and confirming a qualified electronic signature or seal in accordance with the requirements of the Law of Ukraine “On Electronic Identification and Electronic Trust Services”.

5. Creating, sending, receiving and storing electronic documents

5.1. General requirements for creating electronic documents

5.1.1. Electronic documents in the activities of the Exchange are created, signed, sent, received, registered, processed and stored in compliance with the requirements of the legislation of Ukraine, the Exchange Rules, this Regulation and other internal documents of the Exchange.

5.1.2. If the legislation of Ukraine, the Exchange Rules, this Regulation or other internal documents of the Exchange provide for the use of a certain type of electronic signature or electronic seal for a relevant electronic document, transaction or electronic action, the use of another type of electronic signature or electronic seal is not permitted.

5.1.3. A person who affixes an electronic signature to an electronic document must, before affixing such a signature, have the opportunity to familiarize themselves with the content of the electronic document or legally significant electronic action being signed or confirmed.

5.1.4. A person who places an electronic signature and/or an electronic seal on an electronic document confirms that he/she has read the text of the electronic document, understands its content, has no objections to it (or his/her objections are entered as a separate requisite of the document), and knowingly used the electronic signature and/or the electronic seal in the context provided for by the document (signed, approved, agreed, endorsed, certified, familiarized himself/herself with).

5.2. Sequence of signing an electronic document

5.2.1. If an electronic document is signed by two or more persons, the sequence of its creation and signing is determined by the information processing technology used.

5.2.2. The creation of an electronic document that is signed by two or more persons is completed by applying the last electronic signature in accordance with the technology for creating such an electronic document.

5.2.3. If an electronic document is certified by an electronic seal, such an electronic seal shall be affixed in the cases and in the manner specified by the legislation of Ukraine, the Exchange Rules, this Regulation or other internal documents of the Exchange regulating the relevant electronic interaction.

5.2.4. If an electronic document is created or signed using the Exchange's information system/electronic trading system, the moment of creation, signing, sending, receiving or confirmation of the electronic document is determined in accordance with the technology, event logs, messages or other electronic data of the relevant system.

5.3. Sending and receiving electronic documents

5.3.1. Sending and receiving electronic documents in interaction with the Exchange is carried out through official or agreed channels of electronic interaction.

5.3.2. The Exchange ensures the functioning of an electronic mailbox for receiving, registering and confirming receipt of electronic documents with attached QES or AES with a qualified certificate of clients/counterparties, except in cases where electronic interaction in accordance with the terms of concluded agreements with clients/counterparties must be carried out exclusively in the electronic trading system/information system defined between them.

5.3.3. In addition to the electronic mailbox, the Exchange has the right to determine other official or agreed channels of electronic interaction through which sending, receiving, registering, processing and confirming receipt of electronic documents can be carried out.

5.3.4. Additional electronic interaction channels may include:

- personal account of the client/trader in the Exchange's information systems/electronic trading systems of the Exchange;
- external electronic document management services;
- other electronic interaction channels determined by the Exchange or agreed between the Exchange and the relevant person.

5.3.5. Information about official or additional channels of electronic interaction through which the Exchange accepts electronic documents is provided to clients, potential clients, counterparties and other persons by posting relevant information on the official website of the Exchange.

5.3.6. An electronic document is considered to be submitted to the Exchange through an appropriate electronic interaction channel if such a channel is defined or agreed upon for the relevant type of document, transaction or electronic action.

5.3.7. The Exchange has the right not to accept an electronic document for execution if it is submitted through an electronic interaction channel that is not official, additional or not provided for the relevant type of document, transaction or electronic action.

5.4. Confirmation of receipt of an electronic document

5.4.1. Confirmation of receipt of an electronic document can be provided by:

- sending an email message;
- generating an automatic message to the relevant information system/information and communication system of the Exchange;
- displaying the document status in the personal account of the information system/information and communication system (in particular, in the Exchange's electronic trading system) or an external electronic document management service.

5.4.2. Confirmation of receipt of an electronic document does not constitute confirmation of its acceptance for execution.

5.4.3. Acceptance of an electronic document for execution is carried out after verification of such document, electronic signature and/or electronic seal, the signatory's authority and the integrity of the electronic document in the cases and in the manner specified by this Regulation.

5.5. Providing a copy of an electronic document to a client or counterparty

5.5.1. After creating an electronic document, the Exchange sends the client/counterparty a copy of such electronic document with all necessary details to the email address specified by the client/counterparty, or provides the electronic document in another manner agreed with the client/counterparty.

5.5.2. If an electronic document is created, signed or stored in the relevant information system of the Exchange, the electronic trading system of the Exchange, another information and communication system or using an external electronic document management service, a copy of the electronic document may be provided by providing access to such a document in the relevant system or service, if such a method is provided for by the contract or internal documents of the Exchange.

5.5.3. At the request of the client/counterparty, the Exchange shall provide a certified paper copy of the electronic document in accordance with the procedure specified in this Regulation.

5.6. Storage of electronic documents

5.6.1. Electronic documents are stored by the Exchange for the periods specified by the legislation of Ukraine and internal documents of the Exchange.

5.6.2. Storage of an electronic document must ensure the possibility of its reproduction, verification of integrity, authenticity, electronic signature, electronic seal and other details during the storage period of such a document.

5.6.3. Storage of electronic documents containing restricted information, personal data, professional or commercial secrets is carried out in compliance with the requirements of the legislation of Ukraine and internal documents of the Exchange regarding the protection of such information.

5.6.4. Storage of electronic documents with a permanent and long-term storage period (over 10 years) is carried out taking into account the requirements of Ukrainian legislation regarding the possibility of verifying the relevant electronic signatures and/or electronic seals in the long-term period.

5.6.5. The procedure for storing, transferring to the archive, backing up, restoring and destroying electronic documents after the expiration of their storage period is determined by the legislation of Ukraine and internal documents of the Exchange.

6. Creation and certification of copies of documents

6.1. Creating and certifying an electronic copy of a paper document

6.1.1. An electronic copy of a paper document is created by digitizing (scanning, photographing, etc.) a paper document into electronic form in compliance with the requirements of the legislation of Ukraine, this Regulation and other internal documents of the Exchange.

6.1.2. An electronic copy of a paper document must provide the ability to visually reproduce the content of the paper document from which it was created.

6.1.3. An electronic copy of a paper document must be suitable for reading, checking the details of the document and establishing its content.

6.1.4. An electronic copy of a paper document is created from the original paper document or from a duly certified paper copy of the document, unless otherwise provided for by the legislation of Ukraine, the agreement or internal documents of the Exchange.

6.1.5. The authorized representative of the Exchange, when interacting with a client/counterparty and creating electronic copies of paper documents, uses the QES of the authorized representative of the Exchange and/or the qualified electronic seal of the Exchange, and/or an enhanced ES or an enhanced seal based on a qualified certificate with a qualified electronic time stamp.

6.1.6. Certification of an electronic copy of a paper document confirms that the electronic copy corresponds to the paper document from which it was created.

6.2. Creating and certifying a paper copy of an electronic document

6.2.1. A hard copy of an electronic document is created by printing the electronic document on paper.

6.2.2. A paper copy of an electronic document must fully reproduce the content of the electronic document and contain the information and details necessary to identify the electronic document from which it was created.

6.2.3. Certification of a paper copy of an electronic document is carried out by an authorized representative of the Exchange by affixing the certification inscription "According to the original" (without quotation marks), the title of the position, surname and initials of the person certifying the copy, his/her handwritten signature, the date of certification and, if necessary, the Exchange seal.

6.2.4. A paper copy of an electronic document containing more than one page (sheet) must be stitched and have page (sheet) numbering, and on the back of the last sheet, at the place where the threads are fastened, a paper is pasted on which the inscription is indicated: "Numbered and stitched __ (___) sheets." (the number of sheets is indicated in numbers and words), the title of the position, the proper name and surname of the person certifying the copy of the document, his/her handwritten signature, and, if necessary, the Exchange seal.

6.2.5. Certification of a paper copy of an electronic document confirms the correspondence of the paper copy to the electronic document from which it was created.

6.3. Detection of changes in an electronic document or a copy of such a document

6.3.1. Detection of changes in an electronic document and an electronic copy of a paper document is carried out by checking the electronic signature, electronic seal or other electronic data used to sign, certify or verify the integrity of such an electronic document or an electronic copy of a paper document.

6.3.2. If, after certifying an electronic copy of a paper document, it is discovered that such copy has been altered, its integrity has been compromised, or the electronic seal or electronic signature applied to it cannot be verified, such electronic copy cannot be accepted or used by the Exchange.

6.3.3. Detection of inconsistency of the content of a paper copy with the electronic document from which it was created is carried out by comparing such a paper copy with the corresponding electronic document.

6.3.4. If the content of a paper copy is found to be inconsistent with the electronic document from which it was created, such paper copy may not be accepted or used by the Exchange as a certified paper copy of an electronic document.

7. Final provisions

7.1. This Regulation shall enter into force on the date of their approval by the CEO of the Exchange, unless another date of entry into force is specified in the decision on their approval.

7.2. Amendments and supplements to this Regulation shall be made in accordance with the procedure provided for the approval of this Regulation.

7.3. In the event of any part of this Regulation not complying with the current legislation of Ukraine, including in connection with the adoption of new acts of Ukrainian legislation (in particular, regulatory legal acts of the NSSMC), this Regulation will be valid only in that part that does not contradict the current legislation of Ukraine.

7.4. The termination or invalidity of any of the clauses of this Regulation shall not entail the invalidity or termination of the validity of the other clauses of the Regulation.

CEO **_____** **Oleksandr KOVALENKO**