LIST

of operational documents according to GOST 2.601-2006 for the equipment.

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| № n/n | Name of document | Document Code | Discription |
| 1 | Certificate (of unit of equipment, assembly) | ПС (PS) | Equipment information, consisting of: name, type (model, trade mark), assignment, construction (level of case protection - IP code, identification of explosion protection of electro- technical equipment), rating value and specification of equipment, completeness of set (number of components and units), service limit (endurance), manufacturer's guarantee (guaranteed service life), data about certification and recycling, data about contained precious materials, non-ferrous metals and alloys (name, mass, location inside the equipment and parts). |
| 2 | Operation Manual | РЭ (RE) | Construction data, assignment, operating principle, specification of the equipment and its parts, including following diagrams and drawings:* single-line diagram of electrical supply;
* circuit schematic diagrams;
* wiring diagrams (electrical connections of apparatuses inside a cubicle);
* external electrical connection diagrams (electrical connection of external wiring tracks and terminal boxes inside a cubicle);
* assembled representation of equipment, including component layout inside a cubicle;
* specification;
* and so on. Instruction for:
* storage and transportation;
* proper and safety operation of equipment (operational data, points and methods of control, typical failures and methods of its elimination, industrial safety measures, labor protection);
* servicing (periodicity, procedural nomenclature, spare parts and materials allowance list);
* current maintenance and overhaul (periodicity, procedural nomenclature, spare parts and materials allowance list);
* repair technique (order and sequence of disassembly and assembly of equipment, use of tools and devices) with drawings;
* estimation of technical condition during the operation, for determination of need of sending to service center and preventive inspection after repair - types of tests, estimation, run-up, specified values, procedure and periodicity of performance);
* list of spare parts, tools and accessories;
* recycling of the equipment and its components.
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| 3 | Assembling, start-up, adjustment and running manual | ИМ (IM) | Data for:- assembling (order and sequence of assembling, assembling diagrams and drawings, equipment layout inside the building, construction task for equipment assembling and appliance); |

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|  |  |  | * integration of the equipment to process control system (protocol, connection, signals) and automatic control system (protection, alarm, control);
* commissioning (parameters and specification of tests, measurement, run-up, software for checkout, description of adjustment of electro-technical equipment - controllers, control units, interface);
* strat-up (order and sequence), adjustment (parameters and specification);
* run-in test (parameters and time) and commissioning of the equipment and its components at the place of its implementation.
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| 4 | Parts and assembly units Catalogue | КДС (KDS) | List of parts and subunits of item with drawings and data about their number, layout inside the equipment, compatibility, design features, materials and so on. |
| 5 | Register of operational documents | ВЭ (VE) | List of operation papers |
| 6 | Turnover documentation | ПСД (PSD) | Results of the facility test and measurements at the works of manufacturer with description of the following: types of tests and measurements, actual results, specified parameters, methods of test performance procedure; equipment acceptance certificate at the works of manufacturer. |

Notes:

1. Documentation should be provided for each type of the equipment:
* special transformer (made by Swiss company- «Trasfor»);
* thyristor rectifiers;
* control unit ;
* earthing switches unit ;
* start-up choppers (DC regulation unit);
* main run choppers (DC regulation units).

Concerning the components: controllers, control units, etc., documentation should be provided depending on their application.

* 1. Documentation shall be assured with the stamp of the manufacturer..