

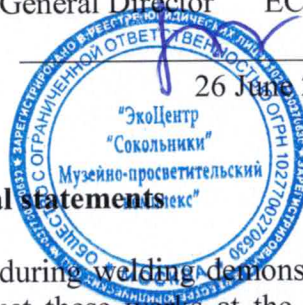
**on fire safety during the demonstration of welding and other hot works in the EC
Sokolniki LLC pavilions**

«APPROVED»

General Director EC Sokolniki LLC

P.V. Revenko

26 June 2015



I. General statements

1. Responsibility for ensuring fire safety measures during welding demonstration rests with the heads (representatives) of the organizations that conduct these works at the stand, exhibition or leased space.
2. The hot work means gas-welding operation, arc welding operations, plasma cutting, mechanical metal cutting, and other works with sparking.
3. Head of the organization must issue an order appointing the persons responsible for fire and electrical safety at the stand during the exhibition. A copy of the order must be placed directly on the stand, where welding works are assumed to be held.
4. Only specialists who have been trained with a group of electrical safety not less than the III-d and have the corresponding certificate are allowed carrying out welding works.
5. In order to limit the impact of the hazards on visitors (fumes, spatter melts, bright flashes), welding demonstrations must be performed in accordance with the schedule of works.
6. Prior to the welding demonstration and other hot works – no later than one day – the person responsible for demonstration is obliged to issue the work permit for welding work and approve it by an authorized representative of the EC Sokolniki Fire Safety Service.

List of documents necessary for approving the work permit:

1. Work permit for performing increased danger works (2 copies);
2. Copy of the order that appoints a person responsible for fire and electrical safety at the stand;
3. Copy of the certificate on training in the volume of fire-technical minimum belonging to the person responsible for fire safety;
4. Copy of the certificate proving that the specialist has got special training for welders with a group of electrical safety not less than the III-d;
5. Certificates of compliance for welding equipment used during the demonstrations;
6. Documents for fire extinguishers, gas cylinders – factory passport and evidence of past security checks and charging.

After receiving the whole package of documents, an authorized representative of the EC Sokolniki Fire Safety Service checks of places welding work performance and approve work permit **valid for the duration of the exhibition.**

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For exhibitors from SIC and foreign countries it is necessary to submit similar documents valid in these countries (with translation into Russian).

1. Work permit for performing increased danger works (2 copies);
2. Documents certifying that welders and a person responsible for fire safety at the stand have passed special training;
3. Certificates of compliance for welding equipment used during the demonstrations;
4. Documents for fire extinguishers, gas cylinders – factory passport and evidence of past security checks and charging.
5. A person responsible for fire safety at the stand must be a Russian representative of the exhibitor or a representative of the exhibition Organiser.

II. Order of carrying out welding works demonstration.

6. The place for carrying out welding works demonstration and other hot works must be staffed with the primary means of fire extinguishing agents:

- Fire extinguishers up to 6 liters - 2 pcs.
- Box with sand with a capacity of 0.1 m³ and a spade and / or water tank with a capacity of 10 liters
- Fire protection cloth (felted asbestos) measuring 1.5 x 2 m.
- Filter exhaust device for capturing welding fumes.

7. Technological equipment which is used during welding works demonstration should be led to explosive / fire-safe state through:

- releasing from inflammable substances;
 - disconnecting from the existing communications (with the exception of communication used for the preparation and conducting welding works demonstration);
 - pre-cleaning, washing, steaming, ventilation, sorption, desensitization, etc.
8. Building structures, their finishing and coating, as well as insulation and pieces of equipment made of combustible materials shall be protected from sparks contamination by fire cloth (asbestos), metal screens or other non-combustible materials.

The floors in the areas of welding works demonstration should be made of non-combustible materials or protected against splash of metal (metal plates).

9. Places for welding works demonstration in the pavilion should be fenced with wall made from flame-retardant material during the demonstration. The opening for the inspection of welding works demonstration and other hot works should be equipped with mesh fencing from non-combustible materials with a mesh size of not more than 1.0 x 1.0 mm. The height of the partitions should be not less than 1.8 m, and the gap between floor and wall - no more than 5 cm. To prevent scattering of incandescent particles the above

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mentioned gap should be protected with non-combustible material mesh with a mesh size not more than 1.0 x 1.0 mm.

10. Gas welding works demonstration:

Storage and transportation of gas cylinders shall be carried out only with the protective caps screwed on their necks. Storage of gas cylinders at the stand over the daily rate is prohibited.

10.1. Delivery and installation of gas cylinders is conducted strictly before the start of the welding works demonstration on the move-in letter with approval visa of authorized representative of ECC Sokolniki Fire Security Service;

10.2. Upon completion of the welding works demonstration at the end of the exhibition day, gas cylinders are stored and kept in a special place outside the exhibition hall;

10.3. Additional supply of gas cylinders (over daily rate) is stored in a special place outside the pavilion.

Changes in storage of gas cylinders and in conducting of gas welding work demonstration are performed only by agreement with the authorized representative of ECC Sokolniki Fire Security Service.

11. Electric welding works demonstration:

11.1. It is prohibited to use wires without insulation or with damaged insulation, and to use non-standard electrical fuses.

11.2. Welding wires should be connected by means of crimping, welding, soldering or with special clips. Connection of wires to the electrode holder, the work piece and the welding machine must be carried out using copper cable lugs, bolted with washers.

11.3 The design of the electrode for manual welding should ensure proper grip and quick change of electrodes and also exclude the possibility of a short-circuit of its body on the work piece during temporary outages or when it is accidentally dropped on metal objects. The electrode handle should be made from flame-retardant and insulating dielectric material.

11.4. The electrodes used for welding shall be factory made and meet the nominal value of welding power. If you change the electrodes, its precipitation (stubs) should be placed in a special metal box installed in place of welding.

11.5. Electric welding setting must be grounded during the works. In addition to the main grounding of electric equipment, the secondary winding clamp of the welding transformer in the main welding setting, to which the wire to the product (the return conductor) is connected, should be directly grounded.

11.6. The temperature of separate parts of the welding setting (transformers, bearings, brushes, contacts the secondary network, etc.) should not exceed 75 C⁰.

12. At the end welding works demonstration all equipment must be turned off and the workplace should be cleared.

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13. During welding works demonstration and other hot works it is PROHIBITED:

- to start working at faulty equipment;
- to work on freshly painted structures and products;
- to use gloves and clothing with traces of oil, grease, gasoline, kerosene and other flammable liquids;
- to allow contact of electrical wires with cans of compressed, liquefied and dissolved gases;
- to use open flames and hot objects for heating welding equipment;
- to purge hose for HS oxygen and SG oxygen hose and interchanged hoses at work;
- to use hoses with a length exceeding 30 m;
- to twist, wring or clamp gas conductive hoses;
- to force the work of acetylene generators through the deliberate increase in gas pressure in them;
- to carry out welding work without protective clothing for welders;
- to use copper as a solder for soldering acetylene equipment and to use it in other areas with possible contact with acetylene.

III. Course of actions in case of fire

14. Upon detection of a fire or signs of burning:

- immediately stop the welding work demonstration and disconnect welding equipment;
- inform all persons present at the stand about the discovery of fire (ignition); immediately report to the security service duty officer by phone numbers: +7 (495) 925-72-61, +7 (916) 256-75-47; to representatives of the Pavilion Administration; to the representative of ECC Sokolniki Fire Security Service by phone number: +7 (916) 558-94-12. Inform about fire by calling 01 - EMERCOM or 112 (for all mobile operators).
- take measures to evacuate people from the territory of the stand (exhibition) and the pavilion;
- begin to extinguish the fire (ignition) with primary means of fire extinguishing.

Representative of Fire Security Service

ECC Sokolniki

V.L. Stefanyuk

Technical Director

ECC Sokolniki

S.V. Pogodaev