

## **GUIDELINES FOR THE DEVELOPMENT AND PREPARATION OF DOCUMENTATION AS REGARDS FIRE PROTECTION**

To ensure sufficient fire protection at the design stage, the regulations and standards of the Ordering Party must be applied, in particular:

1. Applicable national legal provisions (acts, regulations, standards, etc.);
2. WAO ANWIL S.A. (including but not limited to Technical Standards DS 01/2021 with the current addendum, Fire protection guidelines);

Any ambiguities, deviations, proposals for alternative solutions to ANWIL S.A.'s Technical Standards for Fire Protection should be agreed with the Chief Fire Officer at ANWIL S.A.

Documentation related to the construction, reconstruction, development, expansion, modernisation and renovation (construction, technical and executive designs), which includes elements concerning or affecting fire and chemical safety, is subject to reviewing by the Company Fire Department (CFD). The Project Manager is responsible for the acquisition of the opinion in question. The designs in the Polish language version must be submitted to the CFD after consultation with the fire protection expert and before their submission to the competent office (building designs) or for implementation (technical designs, executive designs, etc.). The graphic documentation (maps, plans, diagrams, etc.) must be submitted electronically in pdf format.

The aforementioned documentation should include but not be limited to (if applicable):

- a) the area, height and number of floors;
- b) the distance from the adjacent facilities, taking into account the impact of physical effects and the effects of potential incidents;
- c) the fire, explosion and toxicity characteristics of substances present on the premises;
- d) the predicted fire load density;
- e) the category of risk for people, the anticipated number of people on each floor and in the respective rooms;
- f) the assessment of fire and explosion hazard in rooms and external spaces, including such as may arise from technological processes and materials and equipment used,
- g) the division of the facility into fire zones;
- h) the fire resistance class of the building and class of fire resistance and the degree of fire spread of the building elements, the fire protection systems of the structure;
- i) the evacuation conditions, emergency lighting (evacuation lighting included) and obstruction lighting;

- j) method of protecting the utility installations against fire, in particular:  
the ventilation, heating, gas, electricity and lightning protection;
- k) the selection of equipment to ensure fire and chemical safety in the building, adapted to the requirements arising from the legal provisions in force, best engineering knowledge and the adopted scenario of the occurrence of events during a fire, chemical accident or other local threat, in particular fixed and semi-permanent fire extinguishing equipment, sprinkler systems, fire alarm system and detection of flammable, explosive and toxic gases, sound warning system, communication system, alarm system in the case of a chemical hazard, fire water supply system, smoke extraction equipment, lifts adapted to the needs of rescue teams, fire power switches, weathercocks, etc.;
- l) the provision of handheld firefighting and rescue equipment, including the measuring equipment;
- m) the water supply for outdoor fire fighting
- n) fire roads;
- o) the need for additional equipment at the disposal of the Company Fire Department.

The firefighting equipment should have the legally required certificates and approvals applicable in Poland.

All the premises of ANWIL S.A. must be provided with access roads meeting requirements of fire roads included in the Polish state regulations. When designing fire roads, the free passage of two fire engines side by side must be ensured. The width of the fire road should be at least 6 m. A smaller width of the fire road must be agreed with the CFD. Access must also be provided for fire water tanks and firefighting and protection devices. A water intake point/bay for fire engines should be provided for water intake with increased intensity. An access/fire road is to be provided to the RES installation facility or the land on which the RES installation is based.

Fire protection guidelines for contractors working on the premises of ANWIL S.A. On the premises of ANWIL S.A., smoking is possible only in designated and equipped smoking rooms, that is rooms structurally separated from other rooms and passageways, intended exclusively for smoking of tobacco products and e-cigarettes. The smoking rooms should be equipped with mechanical ventilation or filtration systems to prevent the penetration of tobacco smoke to other rooms. The location of a smoking room should be indicated by the manager of the facility and agreed with the CFD. The smoking room must be marked with a "Smoking Room," "Smoking is permitted here" sign, and it must be equipped with portable fire extinguishing equipment and ashtrays to put out cigarette butts. Should the smoking room be located at the production facilities, workshops or construction site backup facilities, it must also be equipped with a water container to put out cigarette butts. During the renovation of the technological facilities, it is possible to organise temporary smoking rooms in agreement with the facility manager and the Chief Fire Officer.

Hot works may only be performed with a written permission. The procedure for obtaining and types of permits are defined in a separate internal organisational regulation effective at ANWIL S.A. as regards: compliance with safety in the performance of particularly hazardous works and other such works as may be conducted under written permits at ANWIL S.A.

1. Before the commencement of hot works, which may cause an immediate danger of fire, chemical accident or other local danger, the person issuing the permit is obliged:
  - a) to assess the fire hazard in the location of the works;
  - b) to determine the type of measures to be taken in order to prevent the occurrence and spread of fire, chemical accident or other local emergency, if necessary securing the works of the CFD by installing a safety post;
  - c) to identify the persons responsible for the adequate preparation of the workplace, for progress and securing the site after the works are completed;
  - d) to ensure that such works are conducted only by authorised persons who have sufficient qualifications;
  - e) to acquaint individuals conducting the works with the fire hazards in the area where the works are to be conducted and with the measures to be taken to prevent the occurrence of fire, chemical accident or other local hazard.
2. While performing hot works, it is necessary:
  - a) to prevent the ignition of flammable materials present in the workplace and in the adjacent areas, including elements of the structure of the facility and related technical installations therein;
  - b) to secure sewer manholes within a minimum radius of 20 m;
  - c) to conduct hot works in explosive atmospheres or in spaces in which other works involving flammable liquids or flammable gases were previously performed, only if the concentration of vapours of liquids or gases in the mixture with air at the workplace does not exceed 10% of their lower explosive limit;
  - d) to have equipment at the workplace to eliminate any sources of fire;
  - e) to clean up and inspect the workplace and adjacent areas;
  - f) having completed the works in places which are difficult to access or where fire may develop over a long period of time, the workplace must be inspected at least for 8 hours after having completed the works.

Special care must be taken during the works; any detected sources of fire must be eliminated and the works must be stopped should there occur any risk of fire, chemical accident or other local danger.

It is the duty of the person in charge of hot works to strictly follow the conditions specified in the written permit.

In order to ensure fire and chemical safety during the commissioning of technological installations at ANWIL S.A., while performing hot works in the area of operating installations and in post-failure conditions posing a threat of a fire, explosion or toxic hazard, the Anwil CFD will install security guard posts, in accordance with the WAO Anwil S.A. The security guard post is removed in the event of a rescue and firefighting call-out and the announcement of a chemical or fire alarm.

Any and all employees of third-party companies performing the works on the premises of ANWIL S.A. are obliged to know and comply with the fire and chemical safety provisions effective on the Company's premises to the extent applicable to such employees.

It is imperative that fire and chemical safety provisions be included in agreements with contractors for investment, modernisation and renovation works, in accordance with the internal regulations.

The use of fire water for purposes other than fire protection is prohibited. In exceptional cases it is allowed to temporarily use fire water for purposes other than fire protection in accordance with the rules defined in a separate internal organisational regulation binding at ANWIL S.A. as regards the principles and procedures of using the fire water grid at ANWIL S.A.

It is prohibited to obstruct access to water supply facilities.

At the design concept stage, detailed fire protection conditions should be developed for the entire task, taking into account the applicable state legal provisions, internal organisational regulations of ANWIL S.A., the specifics of the facility/installation, requirements for fire protection infrastructure and equipment, and local conditions. The concept should be submitted for preliminary approval to the ANWIL S.A. Company Fire Department in order to ensure compliance with the formal and legal requirements.