

Requirement  Open	The Statkraft Way  <b>General Requirements for Health and Safety, Work Environments (HSWE)</b>	 <b>Statkraft</b>
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## 1 GENERAL INFORMATION

Statkraft Sverige AB overall working environment policy is to conduct its operations so that employees, contractors, partners and other interested persons' safety are safeguarded, their health is protected and as well working environment as ambient environmental care.

*No work is so important that we would risk our lives and health!*

General requirements are to be considered as minimum requirements and must always be fulfilled. Object-specific work environment requirements are specified in another contract documentation.

Investigating the work environment and assessing risks in the business are the central activities in the systematic work environment work. To know how to investigate the work environment, you need to identify which sources of risk exist in the business.

Investigations and risk assessments of working conditions need to be carried out on a regular and regular basis. Risk assessments must be provided to Statkraft before work can be performed.

The building work environment coordinator (planning) shall ensure that a project-adapted work environment plan is established before any activity in the field begins relating to what Statkraft has ordered. Besides what is specified by law (*Work Environment Act and AFS 2023:3 that regulates construction work, along with the change directives*), it shall include documentation of how the work environment requirements and the implemented risk analysis and are to be handled and communicated with the building work environment coordinator (BAS-U), before the work begins.

Bas-U must give the green light to the contractor before work can begin on the project for the first time.

## 2 PRESENCE AT STATKRAFTS FACILITIES

All Statkraft's employees, contractors and hired personnel shall use at work and or when staying in Statkraft's facilities:

- Safety helmet with chin strap according to EN 397
  - When working or staying in / near an electrical installation, the helmet must be approved for a minimum of 1000V (EN 50365) and must not contain visible metal penetrations in the brackets for hearing protection, visors, lamp holders and the like.
- Safety shoe / boot protection. ISO 20345
  - Safety class S3.
  - Anti-slip properties.

For frequently occurring work on uneven ground, ankle-high safety shoes should be used. (Example, civil engineering and windfarms).

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- Work clothing - Work jacket / full top and work trousers or overalls with high visibility and reflex (least class 2 pants and class 2 top according to EN 20471). Work clothing must also meet the requirements for flame protection and arc (least class according to EN ISO11612 A1 B1 C1 and EN 61482 1-2).
  - When working or staying in / near an electrical installation with a risk of electric arc, the requirements for flame protection and arc also apply to underwear / socks. There must also be no visible metal objects or jewellery in these works.
- Safety glasses (EN 166/ANSI Z81.1) must be worn on construction sites, maintenance work and inspections.
- The following should always be available when needed
  - Safety gloves, hearing protection.

These requirements apply to all activities at Statkraft's facilities

### 3 WORK REQUIRING SPECIAL TRAINING AND SKILLS CERTIFICATION

For a number of particularly vulnerable work may only be performed by personnel who have the training and skills required for the task. Such works can, among other things be:

• Electrical work	(Vocational and EBR ESA)
• Travers Driving, lifting line	(Licenses and the written certificate from Statkraft)
• Crane Driving	(License)
• Mobile work platform	(Certificates)
• Diving work	(Certificates)
• Blasting	(Blast Card)
• Hot work	(Certificates)
• Tractor Driving	(License)
• Electrical installation work	(see point 15)

### 4 WORK THAT ALWAYS REQUIRES LABOR CERTIFICATE

When working at or near moving plant parts, the shutdown movable plant part, live or near live plant parts or in waterways safety precautions must be taken and work proof extradited before work can commence.

The contractor has the right to require proof of work in all existing jobs.  
Working Proof provided by the patch conductor.

When working in waterways or on equipment that directs or controls water. At work in the waterway applied the industry jointly developed "Safety instructions for working in and adjacent power stations and reservoirs waterway, ESA Waterways - Hydropower safety instructions fully.

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## 5 HOT WORK, FIRE HAZARD AND FIRE EQUIPMENT

With Hot Work referred mainly welding and cutting, working with an angle grinder, soldering and working with burners for heating or thawing. No Hot Work may commence without the permit from the responsible for fire protection made the control and left the state. Ensure Fire Protection Association's Safety regulations for Hot Work are met. One should always notify state responsible for fire protection if you intend to use flammable. One should ascertain where fire extinguishers are located. Gas and gas bottles should, when not in use, gathered to specially designated and the warning sign posted location.

## 6 ALCOHOL AND OTHER INTOXICANTS

Alcohol and drugs affect all human functions and can lead to poorer work and increased security risks.

Should an employee of a contractor or of a contractor-engaged subcontractor be found to be under the influence of alcohol or other drug during working hours, the person shall immediately and in a satisfactory manner, leave the workplace. It is the responsibility of the contractor to provide a replacement with another person having corresponding competence.

## 7 COORDINATOR FOR COMMON, PERMANENT OPERATIVE LOCATION PER THE SWEDISH WORK ENVIRONMENT ACT

For building and construction work within a shared, permanent operative location, the coordinator shall ensure that consultation in accordance with the Work Environment Act, with the person appointed as the building work environment coordinator (performance). The building work environment coordinator (BAS-U) is responsible for the construction area being clearly defined.

## 8 SAFETY ROUNDS

During safety rounds, the building work environment coordinator (BWEC) shall summon the coordinator for the joint, fixed operative location, the representative from the concerned employers, the safety representative and the client. Safety rounds shall be conducted on a regular basis and as needed. The BWEC shall have a documented agenda for the safety round which shall be submitted to and approved by the safety representative. BWEC shall submit minutes from safety rounds to the client on an ongoing basis. The minutes shall indicate any non-conformances, decisions on measures, who is responsible and when the measures shall be completed.

Deficiencies in the facility's work environment are corrected without special contact with the client if the measures are within the framework of the signed contract. In the event of more extensive measures and uncertainties, the client shall always be contacted. Work environment deficiencies and risks with consequences for employees or third parties shall be described in reports. Any suggestions for measures should be stated.

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## 9 CHEMICAL HEALTH RISKS

The supplier shall ensure that all chemical products subject to marking requirements, which are planned for specific use in the project, are produced in accordance with the Chemical Inspectorate's reference to the EU's chemical directive REACH.

All chemicals used in the project should be documented in EcoOnline or similar systems.

The client is entitled to ban hazardous substances from the project. The contractor shall be responsible for personnel who handle chemicals having the requisite training and having undergone the health examinations required for this task, as well as the use of the necessary safety equipment. Safety Data Sheet should be in place.

At the end of the project shall use chemicals removed from Statkraft's facilities.

## 10 WORKING HOURS

The contractor shall have documented routines for ensuring that working hour assignments and lengths are such that the work environment and safety are not jeopardized. These routines shall be presented to the client prior to commencement of work.

## 11 INCIDENTS, ACCIDENTS, INJURIES, NON-CONFORMANCES AND HAZARDOUS CONDITIONS

- The contractor shall immediately notify Statkraft's project manager/owner of incidents and accidents. Written report, with action, submitted to Statkraft's project manager within 24 hours.
- The contractor (including contractor-engaged subcontractors) shall report the total number of job accidents, with and without subsequent absences, to Statkraft's project manager on a monthly bases, no later than the second working day of each following month and after completion of the project. The total number of days of absence registered by individual workers shall also be reported (not the day of injury).
- The contractor (including contractor-engaged subcontractors) shall report non-conformances/hazardous conditions to Statkraft's project manager.

## 12 STATKRAFT HEALTH AND SAFETY COURSE “HSS IN STATKRAFT”

Everyone who will be performing work in or for Statkraft at a facility, power station in a regulatory area or other operational work must have completed the Statkraft health and safety course HSS in Statkraft, Life-saving rules (LSR) and the course Stop unsafe work, the courses must have been completed before coming to the work area!

The purpose of life-saving rules (LSR) is to reduce serious injuries and deaths by implementing clear safety rules for specific high-risk activities.

The course certificates must be submitted to Bas-U and are valid for 3 years.

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The courses are posted at Statkraft Supplier Academy:  
[Statkraft U](#)

## 13 ELECTRICAL SAFETY DIRECTIVES (EBR ESA)/WATERWAYS

### **EBR ESA and ESA Waterways - Hydropower safety instructions and ESA instructed person non-electrical work**

All personnel who will be working on or near an electrical installation shall be instructed in the significance of the directives and special instructions for working with the applicable parts. Review and documented training in ESA constitute a foundation for this. Also applicable are the electrical safety regulation.

For work in and near the power stations' and water reservoir waterways, as well as working at or near moving plant components, requires complete and documented training in ESA Waterways - Hydropower safety instructions.

ESA instructed person to perform any kind of non-electrical work in an electrical installation.

### **Other courses**

The employer is responsible for ensuring staff have the necessary training for the work to be carried out.

## 14 WIND TURBINE

Other education requirements for work at height in wind turbines

- GWO manual handling
- GWO first aid
- GWO work at height
- GWO fire safety
- Medical examination for work at height

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## 15 ELECTRICAL INSTALLATION WORK

To ensure that the requirements of the electrical safety legislation are met, it is necessary for the client to make sure that the electrical installation company that will carry out the electrical installation work on the owner's high-current electrical installation has the necessary knowledge for the work and meets the electrical safety legislation's basic requirements for electrical installation companies. The purpose is to ensure that all electrical installation work is carried out in accordance with regulations and thus provides reassuring safety against personal and property damage.

### Electrical installation company

All types of assignments that include electrical installation work must be carried out by an electrical installation company that is registered with the Swedish Electrical Safety Authority. The company must have the necessary competence based on the task ordered and have registered the current types of business to which the task relates with the Swedish Electrical Safety Authority.

### Competence requirements on performer of electrical installation work

To the client, the electrical installation company must:

- report their competence requirements according to their self-monitoring program for the types of activities occurring in the work
- report how, in accordance with their self-monitoring program, they ensure that those who will participate in the work meet the set competence requirements.
- describe how to ensure the competence requirements in cases where you hire staff or use subcontractors.

### Requirements for the execution of electrical installation work

The safety level in the electrical installation work must comply with "good electrical safety technical practice".

This means that the electrical installation work must be carried out in accordance with the requirements of the Electrical Safety Authority's execution regulations and Swedish standards. If the electrical installation company intends to deviate from the Swedish standard, it must be approved in writing by Statkraft Sverige AB. The application for deviation must, in addition to a clear description of the deviation and the standard to which the deviation refers, also contain a clear risk assessment.

### Control of electrical installation work

As a method for controls, the electrical installation regulations SS 436 40 00 Chapter 6 should be used in applicable parts. The electrical installation company must carry out the following controls for all electrical installation work that includes new installation, rebuilding or alteration:

- Control during assembly (continuous self-checks)
- Control before energization
- Control after energization

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The inspections must be documented and handed over to the client after work has been completed. All deviations in the form of errors or deficiencies must be noted even if they have been corrected.

The client reserves the right to carry out random checks of documented controls during the assignment.

### **Assurance of performed electrical installation work**

After completed work, the electrical installation company must submit a "assurance of completed electrical installation work" to the client. The insurance must contain:

- Type of electrical installation (New installation, reconstruction, extension).
- That the electrical installation work has been carried out with electrical equipment that is CE marked.
- That the electrical installation work has been carried out according to:
  - ELSÄK-FS 2022:1 (how high current installations must be designed).
  - ELSÄK-FS 2022:2 (Signage of high-voltage installations)
  - SS 436 40 00 The electrical installation rules
  - The high voltage manual (guideline SS-EN 61936-1, SS-EN 50522)
  - Other according
- That the electrical installation work has been continuously checked during the work before voltage application and after voltage application.
- That the controls have been documented and handed over to the client.
- That the electrical installation work has been carried out in accordance with the company's self-inspection program and by employees who are listed in this self-inspection program.

Statkraft Sverige AB can provide a template "Assurance of carried out electrical installation work" if desired.

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