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TECHNICAL GUIDELINE

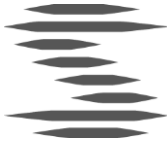
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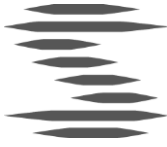
Work environment requirements – Turnkey contract Client's delegee

This technical guideline contains the environmental requirements for turnkey projects, where Svenska kraftnät has hired independent contractors. This guideline applies when carrying out building and civil engineering works on behalf of Svenska kraftnät.

This English text is to be regarded as a translation of the Swedish guideline. The Swedish text and the interpretation thereof shall govern the contract and the legal relations between parties.



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	First edition	13/09/2016



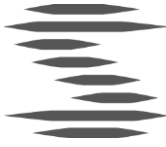
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1 Definitions

Work environment plan	Document which, among other things, specifies the work environment organisation, risks and measures in the present project to ensure the applicable health and safety requirements. The plan shall as a minimum include the requirements set out in the Work Environment legislation, and be structured according to Svenska kraftnät's template that can be found at svk.se.
Deviation	Work-related adverse incident or non-fulfilment of requirements: <ul style="list-style-type: none">> Event where accident or incident has occurred or could occur> Observation of an error, a risk or a deficiency that can lead to an accident or emergency (risk-sighting)> Departure from working methods, practices, routine, legal requirements, etc.> Deficiency in product, service and delivery
BAS	A Building work environment coordinator shall be appointed in accordance with the Work Environment Act for both planning and design (BAS P) and construction phase (BAS U). The BAS may be a legal entity, business or individual.
Customer	The party who orders a product or service
Client	The party who has a construction work performed shall during every stage of the planning and design ensure that the working environment be taken into consideration both during the construction phase but also during use. Client shall appoint construction environmental coordinator (BAS)
Building and Civil Engineering Work	Work or activities which the Supplier carries out in the field under contract with Svenska kraftnät, cf. AFS 1999:3.
Contractor	Companies that deliver more or less complete construction services including material, for which AB and ABT apply.
HSEQ	Work environment, electrical safety, environment and quality (safety is excluded).
Consultant	Consulting company that provides services and includes the role Project Planner.
Supplier	Collective term for any company that has a contract with Svenska kraftnät and is supplying products/services. It includes Contractor and Consultant. Subcontractors can be different things but Svenska kraftnät is never party to the agreement.



Turnkey contract	A turnkey contract is characterised by the contractor himself executing or for his own account has the project executed. The Customer has usually provided some form of simple documentation, where the requirements to the intended function are given. The turnkey form is therefore sometimes known as <i>functional contract</i> . The standard contract that applies to turnkey projects is ABT (<i>General provisions for turnkey projects relating to building, construction and installation works</i>) with accompanying administrative regulations (AFD.xxx).
Subcontractor	Company that is a contractor or consultant, and party to agreement with Svenska kraftnät's contracted Supplier.
Client's delegee	<p>The Client can use the services of a Client's delegee who takes responsibility according to paragraph 6 of the Work Environment legislation if the following criteria are met:</p> <ol style="list-style-type: none">1. the Client's delegee has been commissioned to independently be responsible for planning and design and/or performance and2. it has been agreed in writing that the duties referred to in paragraph 6 and in the regulations shall rest with the Client's delegee in the current assignment <p>A Client's delegee may not be hired under separate contracting.</p>



2 Scope and responsibility

This technical guideline applies solely for the procurement of turnkey projects according to ABT and when Svenska kraftnät has appointed independent contractors. The Client is responsible for appointing the Building Work Environment Coordinator for the planning and project design and for execution of the work. When the Client hires an independent contractor, client responsibility is shifted to the appointed contractor (Client's Delegee), and it is his responsibility to appoint a Building Work Environmental Coordinator.

Requirements on systematic control of the work environment, electrical safety, environmental and quality work required for all building, civil engineering, and maintenance work, and for consulting services in planning and design of projects for Svenska kraftnät, are included in TR 13-01 and they apply in parallel with this technical guideline.

The requirements include the activity that Supplier undertakes under contract with Svenska kraftnät. The requirements also apply to all Subcontractors and Consultants working on the assignment. The Supplier, with whom Svenska kraftnät has signed an agreement, is responsible for ensuring that the requirements in this document are followed.

Contractor, Planner and Consultant are referred to below as Supplier and Svenska kraftnät as Customer.

Rules for work environment in general are found in the Work Environment Act and associated provisions:

AML (Arbetsmiljölagen)

Work Environment Act
Cf. www.av.se

ABT (Allmänna bestämmelser för totalentreprenader avseende byggnads-, anläggnings- och installationsarbeten)

General provisions for turnkey projects relating to building, construction and installation works

AFS (Arbetsmiljöverkets författningssamling)

Swedish Work Environment Authority
Collection of provisions



3 Responsibilities and organisation

The Contract shows that the Client has appointed Supplier as independent contractor, thus mandated with independent responsibility for planning and design, as well as for work execution. Template for agreements between the parties can be found as annex to the Contract. They must be signed by both parties in connection with the contract signing.

It shall indicate who the Client's delegee has appointed as Building Work Environment Coordinator under AML Chapter 3 section 6. Written agreement should be made if the delegee appoints someone other than himself. The designated Building work environment coordinator shall ensure that the coordinator intended for use in the work environment (BAS P and/or BAS U) possess the qualifications set out in annex 1 and 2.

3.1 Building work environment coordinator for planning and design, BAS P

Work environment plan and prior notification

In the preparation of the plan BAS P shall take into account the risks that the Client has identified in the planning stage.

In cases where prior notification should be established according to the work environment legislation, the independent contractor is responsible for this.

BAS P coordinator shall

- > Have the skills, qualifications and experience in accordance with the suitability requirements set out in annex 1.

3.2 Building work environment coordinator for the work execution, BAS U

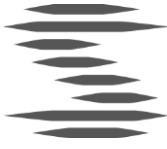
Work environment plan and prior notification

The BAS U should take over the work environment plan that BAS P has prepared.

The Client's delegee shall ensure that prior notification be posted in the workplace.

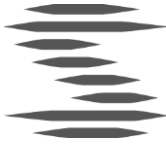
BAS U coordinator shall

- > Have the skills, qualifications and experience in accordance with the suitability requirements set out in annex 2.
- > Be Swedish-speaking but also able to communicate in a predetermined language to all who are in the workplace.



4 Time reporting

The Supplier shall, on a monthly basis, report to the Customer the number of hours worked on site, including officials. Client's delegee (incl. any subcontractors) shall also, annually and on completion of the assignment, report the total number of hours of work performed on the site.



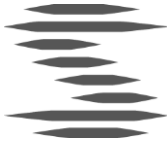
Annex 1 – Suitability requirements for BAS P coordinator

Basic skills requirements:

- > Good knowledge of the content of AML, the Work Environment Act
- > Good knowledge of the following AFSes:
 - Provisions on Building and civil engineering work
 - Provisions on systematic work environment management

Competence requirements depending on the type of risks in the current project (minimum requirements):

- > Provisions on ergonomics
- > The workplace design
- > Provisions on ladders and trestles
- > Provisions on asbestos
- > Provisions on chemical hazards in the working environment
- > Provisions on the inspection of lifting devices and other technical devices
- > Provisions on the use of lifting devices and lifting accessories
- > Provisions on machinery and technical devices
- > Provisions of work equipment
- > Provisions about bolt-driving tools
- > Provisions about nail guns
- > Provisions on noise
- > The provisions relating to vibrations
- > Provisions on mast and post work
- > Provisions on Quartz
- > Education ESA 14 – Basic and Work for proficient
- > Current parts of the Electricity law SFS 1997:857, Power Provision SFS 2009:22 and the Electrical Safety Authority's provision ELSÄK-FS 2006:1 Professional Activity
- > Maintenance standard EN 50110-1 version 3



Experience requirements (supported by CV and reference checks upon request of the Customer):

- > Experience of carrying out Building and Civil Engineering Work
- > Experience of work with coordination, management, or control of construction projects
- > Experience of project planning
- > Knowledge of the organisation's rules and procedures concerning the work environment

Certificates presented to demonstrate the competency requirements:

- > AML training, Work Environment Act, for example BAM-education
- > BAS education incl. an approved grade on written examination
- > Education relevant provisions
- > ESA Education incl. an approved grade on written examination



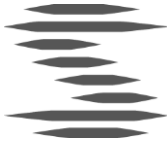
Annex 2 – Suitability requirements for BAS U coordinator

Basic skills requirements:

- > Good knowledge of the content of AML, Work Environment Act
- > Good knowledge of the following AFSes:
 - Provisions on Building and Civil Engineering Work
 - Provisions on systematic work environment management

Competence requirements depending on the type of risks in the current project (minimum requirements):

- > Provisions on ergonomics
- > The workplace design
- > Provisions on ladders and trestles
- > Provisions on asbestos
- > Provisions on chemical hazards in the working environment
- > Provisions on the inspection of lifting devices and other technical devices
- > Provisions on the use of lifting devices and lifting accessories
- > Provisions on machinery and technical devices
- > Provisions of work equipment
- > Provisions about bolt-driving tools
- > Provisions about nail guns
- > Provisions on noise
- > The provisions relating to vibrations
- > Provisions on the mast-and-poster work
- > Provisions on Quartz
- > Education ESA 14 – Basic and Work for proficient
- > Current parts of the Electricity law SFS 1997:857, power provision SFS 2009:22 and the Electrical Safety Authority's provisions ELSÄK-FS 2006:1 professional activity
- > Management standard EN 50110-1 version 3
- > EBR



Experience requirements (supported by CV and reference checks upon request of the Subscriber):

- > Experience of carrying out construction work
- > Experience of work with the coordination, management, or control of construction projects
- > Familiarity with the Organisation's rules and procedures around the work environment

Certificates presented to demonstrate the competency requirements:

- > AML training, Work Environment Act, for example BAM-education
- > BASIC education incl. an approved grade on written examination
- > Education relevant provisions
- > ESA education incl. an approved grade on written examination