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CONSULTATION  
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TECHNICAL GUIDELINE

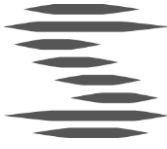
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# Requirements concerning environment and health

This technical guideline contains specific requirements concerning environment and health. The requirements apply when carrying out building and construction, and maintenance works, storage operations and consulting services in planning and design activities performed on assignment by 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.



Revision	Change note	Date
1	The review is prompted by TR-HMSK being collected under common technical guideline now called TR13-01. Previous TR13-01 Environmental requirements for building, construction and maintenance works therefore switch indication to TR13-04-01. Mainly changes regarding chemical management in Chapter 6. Chapter 8 and 11 are new.	13/09/2016



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# 1 Definitions

Deviation	<p>Work-related adverse incident or non-fulfilment of requirements:</p> <ul style="list-style-type: none"> <li>&gt; Event where accident or incident has occurred or could occur</li> <li>&gt; Observation of an error, a risk or a deficiency that can lead to an accident or emergency (risk-sighting)</li> <li>&gt; Departure from working methods, practices, routine, legal requirements, etc.</li> <li>&gt; Deficiency in product, service and delivery</li> </ul>
Work machines	<p>Work machines means mobile machines as defined in Law (1998:1707) on measures against noise and exhaust emissions from mobile machinery. Exhaust requirements for tractors and work machines have been introduced in common in the EU. Policies are found in directives 97/68/EC (for work machines) and 2000/25/EC (for tractors). Step levels are found in Regulation (1998:1709) for exhaust requirements for certain internal combustion engine driven mobile machines.</p>
Contractor	<p>Companies that deliver more or less complete construction services including material, for which AB and ABT apply.</p>
Exposure	<p>Exposure means that humans and/or the environment are exposed to substances harmful to health and/or environment</p>
Handling of chemical products	<p>Manufacture, processing, treatment, packaging, storage, transport, use, disposal, destruction, conversion, and similar procedures.</p>
HMSK:	<p>Occupational health, electrical safety, environment and quality (safety is excluded).</p>
Chemical hazard	<p>Chemical substances that could cause illness or accident depending on how they, for example, reduce the concentration of oxygen in the air, or increase the risk of fire, explosion or other dangerous chemical reaction. For example, hot liquids, grinding dust, fumes or product with labelling-liability.</p>
Chemical product	<p>Chemical substances or a mixture of chemical substances which have been manufactured or extracted, and whose function is primarily determined by its chemical composition.</p>
Consultant	<p>Consulting company that provides services and includes the role Project Planner.</p>



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.
Chemical product with labelling-liability	Product with hazard symbol and/or risk phrase (according to KIFS 2005:7), alternatively new CLP label (according to regulation Förordning (EG) nr 1272/2008) with hazard pictogram and/or statement.
Subcontractor	Company is a contractor or consultant and are party to the agreement with the Swedish force network contracted Provider.
REACH	Stands for Registration, Evaluation, Authorisation and Restriction of Chemicals. REACH is the EU's chemicals legislation. Policies are set out in European Parliament and Council Regulation (EC) No 1907/2006.
Safety data sheet	Aims to inform the user about the hazards of chemical products as well as the precautions to be taken for safe handling. Companies that launch chemical products on the market shall provide those who professionally handles products with current safety data sheet if the product is classified as dangerous
Product selection principle	According to the Swedish environmental code 2 Chapter 4, operators shall avoid using chemical products likely to pose risks to human health or the environment, if they can be replaced with products that can be assumed to be less dangerous.
Essentially free from smearing (poles and sleepers)	Sleepers and poles essentially free from smearing means that at least 75% of individual posts or sleepers are fully surface dry
Action plan land and water	A living document drawn up by the Customer, the purpose of which is to make it easier for the Supplier to comply with the specific legal requirements and administrative decisions, as well as any agreements with interested parties, concerning for example, the natural and cultural values as well as soil and water during design, construction and maintenance. The action plan shows conservation values on maps. In conjunction with the map, there are tables in which the Supplier shall propose measures to meet the requirements. This document is not an environmental plan.



## 2 Scope and responsibility

This technical guideline makes requirements regarding environmental and health risks that Svenska kraftnät has assessed as significant for the execution of works for Svenska kraftnät operations. Risk management and work preparations should be carried out in accordance with the technical guideline Requirement on systematic work in occupational health, safety, environment and quality – TR13-01.

The requirements include the Supplier's activities under contract with Svenska kraftnät. Requirements also apply to all Subcontractors and consultants working in the assignment. The Supplier, with whom Svenska kraftnät has signed an agreement, is responsible for ensuring that the requirements in this document are fulfilled. Requirements for systematic HMSK-work in building, construction and maintenance works as well as in the planning and design of projects for Svenska kraftnät can be found in the technical guideline TR13-01 Requirements for systematic work in work environment, environment, electrical safety and quality, and applies in parallel with this technical guideline.

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

## 3 Education

Key personnel (project managers, site managers, supervisors and equivalent positions) at the Supplier and sub-suppliers shall undergo the Customer's web-based environmental education for Suppliers. The project manager must undergo environmental training in conjunction with the start of the project; site manager or supervisor before commencing on the site. Approved result is valid for three years. Thereafter, the training must be carried out again. Certificate shall be presented or submitted to the Customer.



## 4 Material and equipment

### 4.1 Information about the composition of materials and equipment

For all purchased products (construction materials, equipment and chemical products, etc.) that are part of fixed installations, documentation must be available in the form of e.g. a construction or environmental product declaration. The documentation shall be broken down by commodity/product and be in Swedish.

The documentation shall contain at least:

- > Possible hazard classification of the goods in accordance with Regulation (EC) no 1272/2008 on classification, labelling and packaging (CLP Regulation)
- > Materials and components of the product. The content must be expressed in weight percentage (weight %) of the entire article or in grams. <sup>1</sup>
- > A safety data sheet prepared in accordance with Regulation (EC) No. 1907/2006 (REACH) in cases where the product is a chemical product.
- > Information whether the product is classified as hazardous waste by demolition

#### 4.1.1 Reporting to the Customer

Building product declaration, environmental declaration or the equivalent, according to the requirements of 4.1 shall be reported as follows:

- > At construction projects the report should be included in the final documentation
- > For ongoing maintenance work, the Supplier shall regularly report into the Customer's maintenance system.

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<sup>1</sup> If materials and components contain substances that have a hazard classification in higher concentrations than 0.1% by weight, such substances should be indicated. For these substances, the name, hazard classification, CAS number and concentration in weight-% shall be reported. Alternatively, a safety data sheet attached for the chemical product or article, prepared under Regulation (EC) No 1907/2006 (REACH)





## 5 Vehicles, fuel and tanks

Eco-driving is to be conducted when driving vehicles and machinery.

- > The supplier is responsible for ensuring that staffs are trained in eco-driving, which shall be documented in a training plan.

### 5.1 Light vehicles (GVW under 3.5 tonnes)

#### 5.1.1 Specific requirements for building and construction projects, and design assignments

- > Passenger cars can have an emission of at most 200 g CO<sub>2</sub>/km.
- > Light trucks can have an emission of at most 250 g CO<sub>2</sub>/km.
- > Light vehicles more than 8 years old may not be used.

#### 5.1.2 Specific requirements for working on maintenance and storage operations

- > Passenger cars can have an emission of at most 200 g CO<sub>2</sub>/km.
- > Light trucks can have an emission of at most 300 g CO<sub>2</sub>/km
- > The Supplier shall annually reduce his CO<sub>2</sub> emissions per driven kilometre. To achieve this, the Supplier shall annually develop specific goals and action plans.
- > In year 0, the starting level is specified, as well as how the level has been calculated.

### 5.2 Heavy vehicles

Heavy vehicles must at least comply with Euro IV.

### 5.3 Work machines

- > Work machine engines covered by EU regulations, must meet at least Step I.
- > Work machines not covered by EU regulations must not be more than 10 years old<sup>2</sup>
- > Equipment for disposal of waste must be found in all work machines.

### 5.4 Register of vehicles, work machines and tanks

A list of the water, air and land borne vehicles, work machines and associated fuel supply tanks planned to be used in the work, shall be prepared and attached to the environmental plan. The list shall be drawn up in accordance with the template

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<sup>2</sup> Deviations from the requirements may be allowed for some special machines. Any deviation shall be approved by Svenska kraftnät and documented.



available on the customer's website [www.svk.se](http://www.svk.se) under Stakeholder portal, templates to TR 13.

## 5.5 Reporting to the Customer

The total amount of fuel used for water, air and land borne vehicles and work machines shall be reported on a quarterly basis; reporting for the fourth quarter shall include a summation of the total fuel emissions for the year. The fourth quarter should be filed no later than January 31 of the following year. Reporting must be done according to the template available on the Customer's website [www.svk.se](http://www.svk.se) under Stakeholder portal, templates to TR 13

### 5.5.1 Reporting to the Customer during maintenance work

The Supplier shall, within its contractual area, annually by 31 January, report for light-duty vehicles:

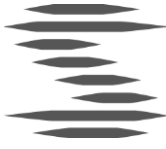
- > total driven km,
- > total CO<sub>2</sub> emissions,
- > goals and action plans for the coming year

Reporting must be integrated with section 5.5 of this technical guidance, in the developed template available in the technical guideline for maintenance information, TR12-05, Annex 4 or at the Customer's home page [www.svk.se](http://www.svk.se) on Stakeholder portal, templates to TR 13.

## 5.6 Specific requirements for fuels, hydraulic fluids, etc.

Diesel fuel and petrol to be used shall comply with the requirements for environmental class 1 or equivalent. For auxiliary power unit at stations and in technical sheds, environmental class 1 diesel with no RME (rapeseed methyl ester RME =) must be used.

- > Alkylate fuel should be used for petrol-powered work machines and tools (chainsaws, brush cutters, lawn mowers, and snow blowers, etc.).
- > In particularly sensitive areas, for example, sensitive natural environments, water deposits of importance for water supplies and sensitive wetlands, the hydraulic oils/liquids used must meet the requirements of environmental characteristic, Swedish Standard SS 155434.
- > Within the metropolitan areas Stockholm, Gothenburg and Malmö, the hydraulic oils/liquids used must always comply with environmental property requirements of Swedish Standard SS 155434.
- > Hydraulic hoses on machines should be monitored daily to avoid leakage.



## 5.7 Tanks, refuelling locations and line-up of vehicles

- > Refuelling as well as disposition of tanks, work machines, and vehicles shall be in the same place as far as possible. The site should be located outside water protection areas and situated away from individual wells and be so designed that spill can easily be disposed of.<sup>3</sup>
- > Tanks and fuel tanks must be double or embanked and be collision-protected.
- > When filling fixed tanks or fuel tanks, for example, auxiliary power units, equipment such as trays that collects waste, shall be used.

## 6 Chemical products

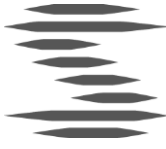
### 6.1 Review of chemical products

- > Before labelling-liable chemical products may be used in the work, they should be checked and rated by the Customer<sup>4</sup>. The Supplier should report labelling-liable chemical products in the system indicated by the Customer.
- > Reporting is to follow the instructions and templates that the Customer has prepared for application of the requirement. Instructions and templates can be found on the customer's website [www.svk.se](http://www.svk.se) under the Stakeholder's portal, templates to TR 13.
  - The product selection principle should be applied and documented for labelling-liable chemical products according to the template available on the customer's website [www.svk.se](http://www.svk.se) under Stakeholder portal, templates to TR 13. Product selection analyses, together with a Swedish safety data sheet that is a maximum of 5 years, should be reported in the system to which the Customer indicates
- > Any conditions attributed to a chemical product must be met before the product can be used. The conditions are presented in the rating report. Possible conditions can be found on the customer's website [www.svk.se](http://www.svk.se) under the Stakeholder's portal, templates to TR 13.

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<sup>3</sup> Refuelling and arrangement of tanks with fire or explosion hazard, and placing of work machines and vehicles shall be in accordance with the electrical safety authority's regulations ELSÄK-FS 2006:1.

<sup>4</sup> Such a procedure can be initiated when a procurement decision has been awarded. Decision in the case is, however, only made after the contract is signed. In the event that the contract will not be signed, the Contractor is not entitled to compensation for work done. The Customer has the right to ban dangerous substances in the assignment.



## 6.2 Storage of chemical products

Chemical products may only be stored at the site during the time when they are used; they must then be removed so that the storage time is minimised as far as possible.

## 6.3 Import and landing of chemical products to Sweden

### 6.3.1 Imports of products from outside the EU

When chemical products are imported from a non-EU country, the Supplier is responsible for compliance with applicable laws and requirements for import of chemical products under REACH and the Swedish Chemicals Agency's regulations. The Supplier is responsible for registration at ECHA and the Swedish Chemicals Agency if required by Regulation (EC) no 1272/2008 (CLP).

For chemical products to be given to the Customer as spare equipment, Supplier shall prepare written risk and safety information, in Swedish, containing data relating to health, safety and the environment, equivalent to a safety data sheet issued under Regulation (EC) No 1907/2006 (REACH). The safety data sheet shall be submitted in good time before the product may be handled.

### 6.3.2 Introduction of products from countries within the EU

On landing chemical products from countries within the EU, the Supplier is responsible for adherence to applicable laws and requirements under REACH and the Swedish Chemicals Agency's regulations. The Supplier is responsible that registration by ECHA and the Swedish Chemicals Agency takes place as required by Regulation (EC) no 1272/2008 (CLP) or the Swedish environmental code, 1998:808.

For chemical products to be provided to the Customer as spare equipment, Supplier shall prepare written risk and safety information, in Swedish, containing data relating to health, safety and the environment, equivalent to a safety data sheet issued under Regulation (EC) No 1907/2006 (REACH). The safety data sheet shall be submitted in good time before the product may be handled.

## 6.4 Chemical inventory, safety data sheets and other documentation

An object-specific chemicals list should be prepared for the current assignment. Chemicals list shall contain at least:

- > The product name



- > What the product will be used for, as well as the quantities estimated to become consumed
- > Information about the product's health-and environmental damage potential
- > Information about the product's classification with regard to health or environmental hazards
- > Classification according to the Customer's rating opinion (A, B, C or D). Products which need not be rated are indicated with a dash (-).
- > Note if there is a need for training to handle the product.
- > Note if there is a need for medical examination in order to handle the product.

When training or examination is required for handling of chemical products, the affected shall be listed and shown to the Customer on request.

Safety data sheets should be in the language spoken in the workplace as well as in Swedish.

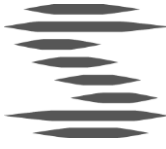
Chemical hazards shall be listed and be part of the risk management process, as described in technical guideline for requirement on systematic work in occupational health, safety, environment and quality, TR13-01

## 6.5 Specific requirements for hard plastics and other allergy-provoking chemical products

When using allergy-provoking chemical products, a handling guide should always be prepared, unless a written risk assessment can demonstrate that it is manifestly unnecessary. The handling guide shall be designed according to the technical guideline for requirements on systematic work in occupational health, safety, environment and quality, TR13-01

## 6.6 Specific requirements for the SF<sub>6</sub>-gas

- > When handling appliances and gas insulated switchgear containing SF<sub>6</sub>, necessary measures shall be carried out to prevent SF<sub>6</sub>-gas from being released.
- > All personnel involved should have the knowledge required to minimise the impact on the environment when handling apparatus and gas insulated switchgear containing SF<sub>6</sub>-gas.
  - For installation, maintenance, and disassembly adequately training must have been implemented. The training should include elements on how SF<sub>6</sub>-gas is managed in an environmentally and health-wise correct way.



- > SF<sub>6</sub>-gas must not be stored in the Customer's operational station plants.<sup>5</sup> The supplier is responsible for storing and providing SF<sub>6</sub>-gas when necessary. Storage periods for the SF<sub>6</sub>-gas on the construction site should be minimized as far as possible. Storage should occur at a single designated place, clearly cordoned from traffic and collision-protected.
- > When working indoors where there is a risk of leakage of the SF<sub>6</sub>-gas, breathing apparatus and air gauge must be easily accessible.
- > For jobs that require opening of gas storage room, SF<sub>6</sub>-gas shall in the first place be taken to gas processing equipment for storage, treatment and reuse. In cases where the gas cannot be reused, destruction of the gas shall be conducted in an environmental manner.
- > Cigarette smoking, fire or the like must not occur in the vicinity of spaces where SF<sub>6</sub>-gas is stored or handled.

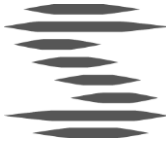
## 7 Natural and cultural values, etc.

- > Before starting work in the field, statutory nature and cultural values, etc., water protection areas and other non statutory conservation values shall be marked on a map sketch and in the terrain, and be protected.
- > The Supplier shall check whether there are specific caring plans for the work area in the Customer's maintenance system.
- > Vegetation to be saved for conservation considerations should be marked with strips or otherwise.
  - For identification of vegetation in the maintenance contract, please refer to the Technical Guideline for maintenance of line gates, TR12-13.
- > Clouding of watercourses, as sedimentation, is to be prevented.
- > After work, the land should be restored and ruts after machines be levelled to prevent dams as well as tracks in nature.
- > Felling residues should be cleaned away from, for example, cultural relics, paths, trails, ditches, streams, rivers and beaches.

If any of the above points are addressed in the Action plan for land and water, this action plan should be followed instead for the particular points.

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<sup>5</sup> Exemptions can be granted for temporary storage if the work is made significantly more difficult, but then, the requirements for storage at the construction site apply.



## 8 Contaminated areas

The Supplier shall have an established work procedure for the handling of any possible contamination of land and water, which activities in the assignment can give rise to.

- > Before starting work the Supplier shall check for known pollutants in the area, the extent of such control to be reconciled with the Customer. The scope of inspections and assessments of potential pollution situation shall be documented and reconciled with the Customer.
- > When contaminated sites are identified or suspected, the Supplier shall act according to the prepared emergency plan.
- > The Supplier is responsible for having clean-up performed in case of accident or incident which may give rise to environmental impact. In the event of major accident the Supplier is responsible for restoring the land in consultation with the supervisory authority

## 9 Impregnated wood

When handling creosote-treated posts and sleepers, a work plan shall be prepared according to the technical guideline for Requirement on systematic work in occupational health, safety, environment and quality, TR13-01.

### 9.1 Checks when receiving poles and sleepers

Creosote-treated posts and sleepers should be essentially free from smearing<sup>6</sup> when they are delivered to the site. Wood that is bleeding and not essentially free from smearing shall be returned immediately.

- > The Supplier should check on delivery that poles and sleepers are surface-dry.
- > If poles or sleepers are identified at the time of delivery as bleeding or with creosote coming off, they shall be returned and reported to the Customer's deviation management system.

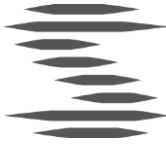
### 9.2 Temporary storage

By temporary storage outdoors of freshly impregnated poles and sleepers, the ground surface must be protected.

- > The ground should be protected with an absorbent bed intended for oil collection. The post pile should be covered with a tarp if it is deemed to be a

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<sup>6</sup> Essentially free from smearing means that at least 75% of individual posts and sleepers are fully surface dry



risk of direct contact with the public. All measures necessary to prevent dispersion must be taken.

- > Tarpaulin and absorbent bedding should be removed as soon as possible and handled as hazardous waste.

Impregnated poles must always be stored outside water protection areas and situated away from individual wells.

### 9.3 Protective equipment

When handling creosote-treated posts and creosote-sleepers where risk of exposure has been identified, the following protective equipment must be used:

- > Protective gloves made of butyl or viton
- > Impregnated overalls/pull-on protective clothing
- > Eye and face protection
- > Respiratory protection with gas filter type A
- > Sunscreen with at least SPF 15
- > Skin lotion must be used before commencing work
- > Access to hand washing

Protective equipment used and come in contact with creosote should be handled as hazardous waste.

### 9.4 Inspection

Fitted poles, which have been creosote-impregnated, shall be inspected by the Supplier in the summer after fitting to identify poles bleeding or smearing.

- > Such poles shall be documented with pole number and photo, and be recorded and reported to the Customer according to established template.

## 10 Demolition of plants and decommissioning of equipment

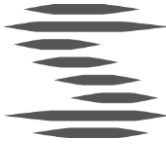
### 10.1 Inventory and demolition plan

In this section, facilities demolition means demolition of an installation such as stations, pipelines, roads and the like, in full or in part <sup>7</sup>

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<sup>7</sup> If uncertainty exists regarding which items are to be included covered by the demolition, the customer will be contacted.





For work that includes demolition, an object adapted demolition plan shall be prepared, based on an inventory conducted of the object to be demolished. The inventory should identify:

- What will be classed as hazardous waste.
- The environmental and work environmental risks that can occur during demolition steps as well as how they should be handled.

The demolition plan shall include:

- Description of how the demolition work should be performed.
  - \* Who performs the demolition and when
  - \* What materials that become waste
  - \* How much waste that will come about
  - \* How the waste will be handled during the demolition
  - \* The transporter and the receiver of the waste
- Methods to identify hazardous substances and hazardous waste.
- Description of how to handle hazardous waste.
  - \* Work methods and safeguards when hazardous waste will be removed.
  - \* How all hazardous materials and products will be sorted, handled, transported and left disposal or removal as waste.
- Description of management/restoration of the land.
- > The demolition plan shall be reviewed and agreed by the Customer and accepted by the Supplier before the demolition may commence.
- > For demolition of electrical power plants, the demolition shall be supervised by authorised installation contractor.
- > The supplier is responsible for PCB samples to be taken on all equipment which may contain PCB. If analysis shows PCB to be present, the Customer takes the cost incurred. In the cases where PCBS is identified, the Customer shall be notified.

## 10.2 Demolition of foundation

Handling of end-of-life foundations is governed by decision and order from the permission-giving authority and the supervisory authorities involved.



If no special requirements are imposed by the permitting or supervisory authorities or appear in the Customer's technical description, foundations and brace anchors should be left in place unless the Customer's has decided otherwise.

## 11 Waste

Before establishing in the work area the Supplier shall prepare a plan for the management of waste. The plan should describe:

- > Notification/permission needed for the management of waste
- > Routine for handling of transport documents
- > The factions that are needed and where they should be placed so that the risks of potential contaminant dispersal from waste are minimized.

### 11.1 Reporting to the Customer

The amount of hazardous waste produced should be reported to the Customer. For construction projects reporting shall be annually, by 31 January of the following year. For ongoing maintenance work reporting should be ongoing according to the Technical Guideline for maintenance information, TR12-05. Reporting shall be made in the template available on the customer's website [www.svk.se](http://www.svk.se) under the Stakeholders' portal, templates to TR 13, which includes:

- > Waste/hazardous waste reported in kg, divided into types of waste according to the waste disposal regulation (2011:927).
- > Where hazardous waste has been taken for further handling, transporter and receiver.