



EGP&TGX/HSEQ

ANNEX F to
EGP&TGX ALL QSE GS 001 v.03

31/07/2023

ANNEX F - MINIMUM REQUIREMENTS FOR WORKS AT NIGHT IN WORKSITES

SECTION 1 - GENERAL INFORMATION

Scope of this document

The purpose of this document is to regulate the procedures for the works at night in Enel Green Power & Thermal Generation worksites in order to define the technical and organizational aspects to consider on worksites when works at night are required.

This document is intended to supplement the general provisions in the *HSE Requirements*.

This procedure is applicable in all Enel Green Power worksites.

In particular, the procedure applies to all contractors / subcontractors carrying out activities at Enel Green Power & Thermal Generation sites.

Referral documents

This Technical Note is an integral attachment of the:
Technical specification HSE Requirements.

The Emergency Plans and evacuation must be adapted to the requirements of this document.

SECTION 2 - OPERATIONAL PROCEDURES

General

On all Enel Green Power worksites all activities shall be performed in conditions of the greatest visibility both the day than at the night. However, when urgent work is required all activities may have to be carried out after normal working hours. In particular can be carried out all activities at night in case of:

- ✓ For technical reasons cannot be interrupted;
- ✓ If there are delay by works program;
- ✓ Critical weather conditions;
- ✓ If these are requested by the Client (EGP);
- ✓ If it is scheduled in Gantt of Contractors;

Works continuing into the late afternoon.

There are cases in which, for operational and/or safety reasons, work in progress cannot be interrupted and must therefore continue into the late afternoon for the time required to complete the operation. In addition, it may be necessary, due to particular climatic conditions (in countries with very hot) anticipate dawn the first shift of work, when the conditions of visibility are poor. In order for the team charged with the work to complete it, a necessary condition is that all workers involved shall be granted an adequate rest break before continuing. During the time of activities, the Safety Officers/Agents presence on the site must be properly planned and guaranteed especially when the risks due to the activities are rated as "high". The Safety Officers of EGP and Contractors must work together to ensure the respect of the Safety Standards. If it is necessary to change a work team in order to complete previous activity, a formal hand over must be carry out between teams.

Work performed at night.

When urgent work is required, all activities can be performed after normal working hours starting from the late afternoon into the night in compliance with the instructions given in this document. If work at night are requested by the Client or those are scheduled in Gantt, the Contractors must be planned appropriate shifts into "night work" permit to work. A necessary condition for this is that the team charged with performing the work shall not work the preceding and following day shifts to ensure that they are properly alert and able to concentrate on their work. During the night works must always be guaranteed the Safety Officers/Agents presence on site. The Safety Officers of EGP and Contractors together must work to ensure the respect of the Safety Standards. If it is necessary to change a work team in order to complete previous activity, a formal hand over must be carry out between teams.



Traffic management at night.

To avoid interference with other vehicles on the site, the movement of heavy vehicles may be scheduled in the "night work" procedure. This activity should be planned in advance with a study of the vehicles' itineraries and the performance of the preliminary activities described below.

In all of the aforementioned cases, works shall not be performed if there is rain, snow or fog.

Risk Management

Whenever it is necessary to work at night, the risks involved in such work shall be evaluated and added to the risk assessment performed previously.

Below is a list of risks that work at night may entail; they should be modified/customized on the basis of the conditions on the individual sites and activity.

If the work area and the manoeuvre in progress is poorly lit the following risks may be present:

- *Crushing, caused by the falling of materials during hoisting and mounting of components;*
- *Striking/tripping, due to the presence of poorly illuminated materials or equipment in the work area;*
- *Cuts/abrasions, in performing operations without proper lighting;*
- *Being run down, by vehicles moving on the worksite;*
- *Falls from the same level or different level/slips.*

Tiredness may also be the cause of accidents or injuries: Breaks from work shall be provided for whenever the worker feels the need.

Operational Instructions

Prior to performing works in conditions of poor visibility or at night, it is best to prepare the measures that allow the performance of tasks in conditions of safety beforehand. Such measures refer to the preparatory phase of the work and are to be carried out when conditions of visibility are still good, or in any case before work begins.

Before work begins:

The entire phase of preparation of the work area shall take place in the afternoon when daylight is still sufficient. The preparatory phase includes:

- *Checking the availability of fuel for generating sets;*
- *Checking road conditions, especially after adverse weather conditions, in the case of transportation;*
- *Controlling dust by sprinkling water on roads;*
- *Checking that machinery is working properly;*
- *Placing lights or reflectors along the routes that vehicles must travel up to their destinations;*
- *Placing intermittent lights to alert drivers about obstacles (for example: trenching, slope, corner low visibility, work in progress, etc.) along the way;*
- *Providing a plan for evacuation from assembly areas and placing proper lighting along the escape routes shown on the plan;*
- *Implement adequate training to workers on emergency procedures and evacuation from the worksite.*
- *Placing all materials, machines, equipment, lights on the work area.*

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Further measures to be implemented should be evaluated in relation to the characteristics of the individual worksites.

During work:

To ensure that works are performed in safe conditions it is necessary to provide:

- *Lighting by means of lamps providing at least 50 lux at ground level (or higher if the local law requirements are more restrictive);*
- *A floodlight that can swivel to follow the hoisting of components;*
- *Prevent glare caused by very different levels of illumination;*
- *Avoid the grey areas in places used for working activities;*
- *A lamp on the crane jib;*
- *Emergency lightings for illuminating the following areas:*
 - *Escape routes leading to safe places or outdoors*
 - *The areas at risk of falling;*
 - *The first-aid areas and areas where there are fire control equipment*
 - *The area where are installed the main switchboards;*
- *Several communications systems connecting ground personnel and workers above ground;*
- *Suitably lit sheds or areas adjacent to the work area for storing equipment required for assembly;*
- *Parking areas for service vehicles outside those used for assembly work;*
- *Special attention must be paid in positioning floodlight cables so that they do not hinder transit routes;*
- *All workers shall be provided with personal protective equipment, with the addition of lamps on helmets;*
- *All on-site workers must wear fluorescent and reflective clothing, orange or yellow with white/silver bands.*

(In particular, on wind worksites, it is necessary to provide a portable emergency light at all levels of the tower as well as on the nacelle).

In the event of an emergency while work is in progress, activities are to be suspended until safe conditions have been restored.

Coordination meeting

In order to evaluate the efficacy of the measures adopted and to discuss any problems that may arise, it is also good practice, to arrange for a series of coordination meetings organized by the site Safety Officer, with the company responsible for the works.

Instructions concerning the timing of such meetings are as follows:

1- Coordination meetings with the contractor that is to perform the works on **the days preceding the start-up of night-time** activities to discuss the risk assessment and the safety measures to implement;

The operational procedures decided during such meetings shall be made known to all operators;

2- A coordination meeting following **the first period of work at night** to assess the need for changes in the intensity of lighting or to share knowledge of any problems encountered.

The Safety Officer by agreement with the Site Manager can freely decide how e when to schedule this coordination meeting.