

NIGHT WORKING AND LIGHTING TOWERS

ACTIVITY RAMS — ADAPT TO SITE BEFORE USE

Visibility · glare and shadow · plant and people after dark · fatigue, cold and lone work

KD-RA-EX-005 Rev A0

Statutory basis: MHSWR 1999 reg 3 for assessing night work and fatigue; PUWER 1998 regs 4, 5 and 9 for lighting towers and generators; HSE HSG144 (2nd edition, 2009) for plant and pedestrians; HSE GS6 (4th edition, 2013) for overhead power lines; HSE INDG73 (revised 2020) for lone working; Health and Safety (First-Aid) Regulations 1981 reg 3; Control of Pollution Act 1974 ss.60 and 61 and BS 5228-1:2009+A1:2014 for night-time noise; CDM 2015 regs 13 and 15. This document is the recorded safe system of work required by HSWA 1974 s.2(2)(a) and MHSWR 1999 regs 3 and 5.

1 DOCUMENT AND PROJECT IDENTIFICATION

RAMS REFERENCE	PROJECT / SITE REF	SITE NAME AND ADDRESS	DATE PREPARED	NEXT REVIEW DATE
CLIENT / PRINCIPAL CONTRACTOR	PLANNED START	DURATION	OPERATIVES	SUPERVISING THE WORK

2 SCOPE OF WORKS

Planning and carrying out external works in darkness: siting, raising, refuelling and lowering mobile lighting towers; lighting work areas, routes and plant movements without glare; keeping people and plant visible; fatigue, health and shift arrangements; welfare, lone working, first aid and emergency response when the rest of the site is closed; and night-time noise and light at the boundary.

This document does not cover: the works being carried out at night (their own RAMS), temporary site electrical installations (KD-RAMS-EL-008), and traffic management on the public highway (the highway authority's arrangements).

SITE-SPECIFIC SCOPE, LOCATIONS AND LIMITATIONS

3 RISK ASSESSMENT — SCORE EACH RISK FOR THIS SITE, THEN ADD WHAT IS MISSING

The hazards and controls below are the starting point for this activity, written by a working main contractor. They are not complete for your site until a competent person has scored each risk, added the site-specific hazards, and struck out anything that does not apply. Rate risks High / Medium / Low before and after controls.

1. Lighting tower overturning or mast collapse

At risk: Operatives, others nearby

Controls: Towers sited on firm level ground with stabilisers or outriggers deployed as the manufacturer requires before the mast is raised; masts raised and lowered only by trained persons with nobody beneath; mast lowered at the wind speed the manufacturer states; towers kept out of plant routes and protected by barriers.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

2. Mast contacting overhead power lines

At risk: Operatives

Controls: Overhead lines identified and tower positions marked in daylight; no tower raised under or near a line except within the arrangements of the overhead lines permit and HSE GS6 (4th edition, 2013).

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

3. Poor lighting, shadow and glare — trips, falls into excavations, misjudged plant movements

At risk: Everyone on site

Controls: Lighting planned before the shift for work areas, access and welfare routes, excavation edges and plant working areas; lamps aimed down and away from plant operators, drivers and the public; no work area left in the shadow of plant; lighting walked and checked before work starts, and work stopped in any area where a tower fails.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

4. Plant striking people in the dark

At risk: Operatives

Controls: Pedestrians and plant kept apart to the traffic plan and HSE HSG144 (2nd edition, 2009); plant lights, beacons and reversing aids checked before the shift; clean high-visibility clothing to the site standard; eye contact or radio acknowledgement from the operator before anyone approaches plant.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

5. Fatigue and ill health — slowed reactions and mistakes late in the shift

At risk: Operatives, drivers

Controls: Night workers offered a health assessment before starting night work; shift length, breaks and consecutive nights set in the risk assessment; higher-risk tasks early in the shift; nobody works a night shift straight after a day shift; supervisors stand tired people down; anyone too tired to drive rests on site before driving, or shared transport is arranged.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

6. Lone working and thin supervision at night

At risk: Operatives

Controls: No lone working on higher-risk tasks; anyone working away from the team has an agreed check-in schedule and escalation, as HSE INDG73 (revised 2020) describes; a named supervisor on site for the whole shift.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

7. Cold, wet and no welfare at night

At risk: Operatives

Controls: Heated welfare cabins, drying facilities and hot drinks kept open for the whole shift; warm layers worn under high-visibility clothing; breaks taken in the warm; wet clothing changed.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

8. Slow emergency response when the rest of the site is closed

At risk: Operatives

Controls: First-aider and first-aid kit on the night shift as the first-aid needs assessment requires (Health and Safety (First-Aid) Regulations 1981 reg 3); emergency access route lit and gate keys with the supervisor; site address and access point ready for the emergency services; fire points lit.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

9. Generators and towers — refuelling in the dark and exhaust fume

At risk: Operatives

Controls: Refuelled only with the engine stopped, at a lit designated point with a drip tray and spill kit; fuel in labelled containers; no smoking; generators and towers sited so exhaust cannot drift into welfare cabins or collect in hollows and excavations.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

10. Noise and light disturbing neighbours

At risk: Neighbours

Controls: Night hours and methods kept to any notice or prior consent from the local authority (Control of Pollution Act 1974 ss.60 and 61); quieter plant and screening chosen following BS 5228-1:2009+A1:2014 practice; towers and generators sited away from homes and lamps angled away from windows.

INITIAL (H/M/L)	RESIDUAL (H/M/L)	SITE-SPECIFIC ADDITIONAL CONTROLS, OR N/A	ACTION OWNER	BY WHEN

Site-specific hazards not listed above — every site has at least one:

HAZARD	WHO IS AT RISK	CONTROLS	INITIAL H/...	RESIDUAL...	ACTION OWNER	BY WHEN

4 METHOD — SEQUENCE OF WORK

- Plan the night shift in daylight: work areas, routes, excavations, overhead lines, tower and generator positions, welfare, emergency access and neighbours.
- Confirm the out-of-hours authorisation, the agreed working hours, the named supervisor and first-aider, and that night workers have been offered a health assessment.
- Set shift length, breaks, task order and transport home; brief the fatigue rules.
- Position lighting towers on firm level ground clear of routes and overhead lines, exhausts away from welfare and hollows; deploy stabilisers and barrier them.
- Raise masts with nobody beneath; aim lamps down and away from operators, drivers and homes.
- Before work starts, walk every route and work area with the lights on and deal with any dark spot or glare; confirm heated welfare is open.
- Check plant lights, beacons, reversing aids and radios; brief the traffic plan and signals.
- Agree check-in times for anyone working away from the main team.
- Refuel towers and generators only at the lit refuelling point with engines stopped.
- Stop work in an area if lighting fails, wind reaches the tower's limit, fog or rain prevents safe visibility, or fatigue is seen.
- At the end of the shift lower masts, secure towers, make excavations and plant safe, and confirm everyone is off site and fit to travel.
- Record near misses and complaints and hand over to the day team.

SITE-SPECIFIC AMENDMENTS TO THE SEQUENCE**5 PLANT, EQUIPMENT AND MATERIALS**

- | | |
|--|--|
| Mobile lighting towers with stabilisers | Heated welfare cabin and drying facilities |
| Head torches and hand lamps | Barriers, reflective signage and radios |
| Generators, labelled fuel containers, drip trays and spill kit | First-aid kit and lit fire points |

INSPECTION / THOROUGH EXAMINATION REFS**COSHH ASSESSMENT REFS**

6 PPE — THE LAST LINE OF CONTROL, NOT THE FIRST

- | | | |
|--|--|---|
| ☐ Head protection | ☐ Gloves — task-rated | ☐ High-visibility clothing to the site standard for night work |
| ☐ Safety footwear | ☐ Eye protection | ☐ Head torch; warm layers |
| ☐ High visibility | ☐ Hearing protection | |

RPE TYPE, FACE-FIT STATUS, AND ANY OTHER PPE REQUIRED

7 PERMITS REQUIRED BEFORE THIS WORK STARTS

A permit authorises this work in that place, on that day. It extends the safe system of work in this document — it does not replace it (HSE HSG250). The site issues the permit; record its number before work starts.

KD-PTW-OO-033 — Out-of-Hours and Lone Working Authorisation

For all work outside normal site hours.

PERMIT NUMBER

KD-PTW-OH-031 — Work Near Overhead Power Lines Permit

Where lighting towers or plant stand near overhead lines.

PERMIT NUMBER

8 EMERGENCY ARRANGEMENTS — COMPLETE FOR THIS SITE

FIRST AIDER AND LOCATION

NEAREST A&E

ASSEMBLY POINT

HOW THE ALARM IS RAISED

EMERGENCY ACCESS FOR THIS WORK AREA

SPILL / ENVIRONMENTAL RESPONSE

9 BRIEFING RECORD — EVERYONE WORKING UNDER THIS RAMS SIGNS BEFORE STARTING

By signing you confirm the contents of this RAMS have been explained to you, you understand the hazards and controls, and you will work to the sequence stated. Tell the supervisor if the work or the site does not match this document — work stops until it does.

NAME	COMPANY	SIGNATURE	DATE

10 PREPARED AND ACCEPTED

Prepared / adapted for this site by — I confirm I have adapted this document to the site, scored the risks, and that it describes how the work will actually be done.

PRINTED NAME	ROLE / COMPETENCE	COMPANY	SIGNATURE	DATE	TIME

Accepted for the site by — principal contractor or site manager review.

PRINTED NAME	ROLE	COMPANY	SIGNATURE	DATE	TIME

Review this RAMS if the work, the site or the law changes, and at least before each new phase of the works. Flatten the completed PDF before filing so the record cannot be silently edited.

R REVISION HISTORY

Every revision of this document, and every review that found nothing to change. The revision on the front of this sheet is the one you are holding — check kubitdocs.com for the current one before use.

Rev	Date	Class	What changed	Authorised by
D0	2026-09-11	first-issue	First issue.	— not yet approved —
A0	2026-09-11	review	Approved for issue by the author. Content unchanged from the reviewed draft; the draft status strip is removed. No independent third-party review has been carried out.	Author — director, UK principal contractor, SMSTS. Not an independent review.

Class: first-issue · material (the law, a control, a field or the scope changed — past buyers are notified) · editorial (wording or layout only) · review (checked, nothing changed) · withdrawal. Revision prefix D = draft, not approved and not for sale; A = approved for issue by the person named, on the date shown.