



Planes & Cranes

***A Guide to Procedures for the Operation of
Cranes and Tall Equipment in the vicinity of
East Midlands Airport***

REQUIREMENTS & PROCEDURES

Companies who require to operate cranes or other tall equipment within 6KM of the Aerodrome boundary and at heights of more than 10m AGL (Above Ground Level) or taller than surrounding trees or local structures must receive permission from East Midlands Airport and be in receipt of an authorised Tall Equipment Permit prior to commencing operations.

The Developer or crane operator should approach East Midlands Airport at least 21 working days in advance of using a crane or tall equipment to ascertain if there are any limitations and/or regulatory procedures that must be agreed upon before work commences, and to allow sufficient time for the Tall Equipment Permit request to be processed.

The applicant will be required to provide the following details for the Tall Equipment permit:

- Type of crane or equipment to be used
- Precise location of the equipment in either six figure Eastings and Northings or Latitudes and Longitudes.
- Purpose of Operation.
- Intended Operating height in metres above ground level (AGL).
- Intended dates and times of operation.
- Applicants name and contact details.
- Contact details for crane contractor.

East Midlands Airport will carry out an assessment on each submission, before a permit can be issued. In some circumstances it may also be necessary to engage consultancy services to undertake specialist technical assessments for potential effects on navigational-aids or Instrument Flight Procedures, in such cases an additional 30-day period should be allowed for. A 'related' charge, payable by the crane operator or main contractor will be levied in all instances. Details of 'fees and charges' will be displayed on the East Midlands Airport website

PERMISSION TO OPERATE

Once these details have been considered it will be determined whether the operation can proceed and if restrictions need to be applied.

Any of the following conditions may be imposed to ensure the safety of aircraft;

- The fitting of **RED** obstacle lighting.
- Restrictions on crane operating times.
- Tall equipment operation dependant on runway in use.
- Restrictions on crane operating height.
- Restrictions during poor visibility (fog or cloud).

In the event of an aircraft emergency, it may be necessary that the crane be lowered immediately.

Once agreement of the tall equipment operation has been reached with East Midlands Airport, a blank Tall Equipment Permit form will be issued to the applicant.

The applicant must fill in the form, providing all details, as required.

The applicant must make sure that the terms and conditions of operation detailed on the form are understood and must ensure that both main contractor and crane contractor's signatures are present prior to returning the completed form back to East Midlands Airport.

The permit will then be registered on the Airport's database, and a final, signed copy will be sent to the applicant.

A copy of the permit must remain on site with the crane for the duration of operations and must be produced if requested by an East Midlands Airport or CAA Official or a Police Officer.

CONDITIONS OF OPERATION

Considerations;

When the design of the equipment allows, it should be lowered when not in use, or when requested by an Airport Official, such as during periods of low visibility or after a change of runway operating direction.

Where it cannot be lowered, it may be necessary for the jib to be parked in a specified location when not in use.

Obstacle Lights;

Where deemed necessary, obstacle lighting will be required, and the characteristics for the lights will be specified.

Normally, obstacle lighting will consist a steady red light(s) of either 200 or 2000 candela, depending on equipment height, and visible from all directions (omni-directional), located on the highest point of the crane or tall equipment.

For a tower crane, the lights should be provided on top of the tower and at the end of the jib. They should be omni-directional and illuminated at all times.

Unserviceable lights should be replaced immediately after failure, and in any event, within 24 hours.

The 24-hour requirement may be relaxed if pairs of lights are fitted and one is still working.

LEGISLATION & LAW

The following legislation controls the use of cranes and other tall equipment in the vicinity of aerodromes;

- The Air Navigation Order.
- EASA Certification Specifications & Guidance Material for Aerodromes (CS-ADR-DSN).

The Operator of such equipment must refer to British Standard Institute Code of Practice for the safe use of cranes, BS 7121-1:2006 Paragraph 12.3.3.

Aviation Law, The Air Navigation Order, makes it an offence to act recklessly or negligently in a manner likely to endanger aircraft.

Therefore, the BSI Code of Practice on the safe use of cranes places a duty on operators of cranes and other tall equipment to comply with procedures when intending to work in the vicinity of aerodromes.

In addition, the HSE states that Health & Safety legislation requires those with responsibilities for construction work to assess the risk to the health & safety of those at work and others who might be affected.

In particular CDM regulations 2015 require a Health & Safety Plan for all sites which should cover all necessary health & safety arrangements, including information about restrictions which may affect the work and any emergency procedures.

The regulations also require suitable arrangements for communication of site rules to all those concerned.

For further advice contact your local HSE Office.

AVIATION SAFETY

The term 'Aerodrome' includes an Airport, Airfield or Heliport where aircraft and helicopters land and take-off.

The unauthorised operation of cranes and other tall equipment in the vicinity of such places could present a serious hazard to aircraft either as a physical obstruction or by interfering with Navigational Aids.

Unauthorised use of cranes or other tall equipment in the vicinity of an aerodrome presents the risk of an aircraft collision with such equipment.

The appointed person should consult East Midlands Airport, Ops Developments and Safeguarding Department for permission to work if a crane or other tall equipment is to be used within 6km of the aerodrome perimeter, and its height exceeds 10m AGL or that of the surrounding trees or structures.

Operators who wish to use this type of equipment must understand and comply with the regulations and procedures that govern the operation of cranes and other equipment in the vicinity of an Aerodrome.

CONTACT

If you wish to operate a crane or other tall equipment within the 6km Consultation Zone surrounding East Midlands Airport, in the first instance please contact EMA Operations Developments and Safeguarding Department using the details below:

Email: ops.safety@eastmidlandsairport.com

OPERATION OF EXCEPTIONALLY TALL EQUIPMENT

Where tall equipment will be operated at heights of 150m AGL or more, operators should approach East Midlands Airport for advice, even if the equipment will be located outside the 6km consultation zone. The equipment may be classed as an en-route obstacle and therefore subject to certain requirements.