



OPERATIONAL SAFETY INSTRUCTION

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Cranes and Tall construction Equipment

Issued By Airside Operations Co-ordinator Ref BRS-OSI-AW-002

It is the responsibility of all employers to ensure that relevant OSIs are brought to the attention of their staff. However, individuals remain responsible for their own actions and those who are in any doubt should consult their Supervisor or Manager.

1. INTRODUCTION

All temporary high lifting equipment on and around the airport must be assessed to identify whether they are going to be a hazard to aircraft operations or interfere with navigation aids.

This OSI gives guidance on the application procedure which must be followed to obtain approval to operate a crane or high lifting equipment on or in the vicinity of the aerodrome.

High lifting equipment includes cranes, piling rigs, concrete pumps and HIABS. However, this is not exhaustive. To clarify whether a crane and tall equipment permit is required, contractors or the project manager should contact the operations management team for further guidance.

2. REQUIREMENTS

2.1. Applicability

This OSI is applicable to those persons and crane operators who are completing projects and developments onsite (Bristol Airport staff and contractors) and within 10nm (18.5km) of the aerodrome. It is also applicable to Local Planning Authorities (LPAs) when cranes are a central part of planning applications or planning conditions.

2.2. UK Regulation and General Applications

There are two distinctive assessment methods used. One assessment is carried out by the CAA, for cranes that are operating in the vicinity of aerodromes, which may have the potential to affect multiple airports/aviation sites and one which is carried out directly by Bristol Airport for short-term crane and high-lifting activities within the aerodrome boundary.

The CAA has advised that any planned crane operations should be notified to them with a minimum of 8 weeks’ notice, as far as reasonably practicable. However, there is a clear understanding that this timeframe cannot always be met and there are options for exemption from this recommendation. This is clarified within CAP 1096, published by the CAA in August 2020 (note that the effective date is from 1st October 2020). The recommended guidance within the CAP stipulates that crane operators wishing to carry out urgent crane works (within five

working days) and within 10nm of an aerodrome should contact the applicable aerodrome directly, in addition to the CAA. When this is the case, operators should follow the requirements stipulated in section 3 of this OSI, in addition to instructions set out in CAP 1096.

The CAA will assess the proposal and identify and notify affected parties, including Bristol Airport, if required. If Bristol Airport is notified by the CAA of a proposed crane operation, the proposal may be subject to a crane permit application, as detailed in section 3.

3. CRANE PERMIT APPLICATIONS WITHIN THE BRISTOL AIRPORT BOUNDARY

The procedures detailed below must be followed to obtain safeguarding approval for the operation of temporary obstructions. Permanent obstructions will be assessed according to airside operations procedure BRS-P-AOPS-008 Airport Safeguarding.

Applicants must complete a Crane and Tall Equipment application form, BRS-F-AOPS-001. This form must be completed and submitted to opsteam@bristolairport.com for review and assessment, with a minimum of five working days before the planned commencement of crane operations.

This will allow sufficient time for the obstruction to be assessed and properly notified to the relevant parties. It should be advised however, that informal discussions about a proposed crane are strongly encouraged, in advance of five working days, to enable any mitigations to be employed without delaying the planned start date.

The applicant is responsible for fully completing section 1 of the form to ensure that the intended works can be accurately assessed against the potential for impact to operations. This includes providing the following key information:

- The exact location of the crane location, with six figure grid reference coordinates;
- The **maximum planned specific operating height** of the crane, jib or other relevant device in metres above ordnance datum, if possible, otherwise, above ground level;
- The radius of the jib;
- The operating times and schedule (days of the week).

Failure by the applicant to provide the minimum information stated above will result in the crane permit approval being delayed until the information is provided. It is not the responsibility of Bristol Airport Airside Operations to provide this information.

Once these details have been received, the application will be considered against all known safeguarding criteria (physical and technical) and it will be determined whether the operation can proceed with or without restrictions. In addition, the location shall be cross-referenced in relation to the location of safeguarded zones surrounding critical aerodrome equipment.

Airside Operations will approve the permit and complete section 2 of the form, which will

contain any required operational restrictions. There may be associated instructions (for example, liaison with operational departments before commencing work), which shall be clearly stated on the crane permit and which must be followed. Any deviation from these without prior agreement from Bristol Airport, may result in works being suspended or cancelled until adherence to agreed procedures can be demonstrated.

In addition to the standard requirements for the safe operation of a crane, any of the following restrictions may be placed by Bristol Airport on the operation of the crane/equipment:

- Restrictions on the operating height;
- The fitting of obstacle lights;
- Restrictions on operating times;
- Restrictions during Low Cloud and/or Low Visibility;
- Restrictions subject to runway in use;
- Compilation of an operating log by the contractor, demonstrating adherence to daily operating height restrictions.

Applicants are responsible for ensuring that the crane operator adheres to any of these operational restrictions, and/or any specific restrictions associated with a particular lift.

4. URGENT WORKS

General requirements for emergency or short-notice work can be found within BRS-OSI-AW-003 Aerodrome Development and Maintenance.

If urgent work requiring tall equipment is required to be undertaken on aircraft on the apron, engineering companies and/or airlines must inform Airside Operations of the requirements.

The operational height of the lifting equipment and proposed location of the engineering operation will be assessed against the regulations, and suitable control measures will be put in place to enable the work to be completed safely without adversely affecting the operation. All stakeholders will be informed directly.

5. FURTHER INFORMATION

Any enquiries regarding use of cranes and tall equipment should be addressed to opsteam@bristolairport.com.