



Promulgation of Information

31st July 2024

ASPROM_OSI_095

Version 1.0

Operational Safety Instruction

Runway Resurfacing 2024

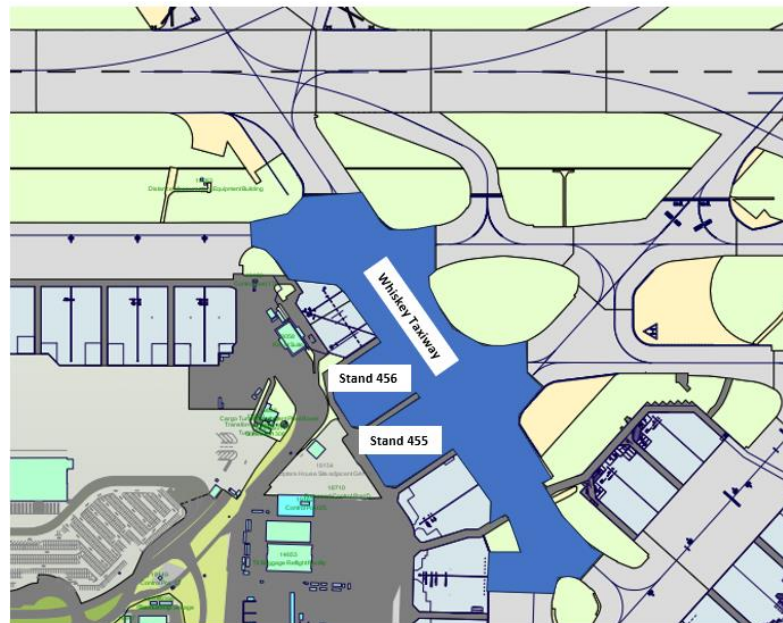
It is the responsibility of all employers to ensure that relevant OSIs are brought to the attention of their staff. However, individuals remain responsible for their own actions and those who are in any doubt should consult their Supervisor or Manager.

1. Introduction

The purpose of this Operational Safety Instruction is to inform the community of the runway resurfacing activities taking place on the airfield during 2024.

This year our Heathrow Solutions team and Volker Fitzpatrick are resurfacing Runway 27L/09R (the Southern Runway). The project will normally work on a Sunday to Thursday night each week. Some weekend working may be required to keep the project on programme.

Each night the Southern Runway will close by 23:00L. To support the limited time the works have, at 22:30L the contractor will muster on stands 455 and 456, before closing Whiskey Taxiway between Link 42 and Runway Entrance S5W to facilitate their entrance to the runway.



Following completion of works each night, and a full inspection of the runway by Airside Operations, the runway will be available to the operation at 06:00L each morning.

2. Definitions

Abbreviation	Description
AGL	Aeronautical Ground Lighting
AODM	Aircraft Operations Duty Manager
IRVR	Instrument Runway Visual Range
RGB	Runway Guard Bar
VCR	Visual Control Room

3. Project Methodology

The resurfacing works will begin east of the Runway 09R displaced threshold bar and work towards the centre point of the runway. Once abeam N6/S6, the project will return to the Runway 09R pre-threshold area and begin to resurface this.

The project will be resurfacing 60m x 45m of runway surface each night with Marshall Asphalt. Approximately 72hrs after each surface area has been resurfaced, the project will groove the newly laid asphalt, before replacing the AGL in the surface to be energised at a later date. The painted runway centreline and associated paint markings will be replaced at the end of each shift.

When resurfacing the 09R displaced threshold area, the project will also be replacing the 09R Approach Lighting system with new LED fittings. During this period the 09R Approach Lighting and the 09R Threshold Bar will be removed for a period of time, this outage will be covered by a NOTAM. The 09R Threshold wing bars will be available during this period. Once this area has been resurfaced the project will return to the central part of the runway and continue resurfacing along the remainder of the runway length.

The resurfacing works are due to be completed in October 2024.

4. Lighting Configuration

Effective from the 17th April 2024, the minimum runway lighting available on the Southern Runway (09R/27L) will depend on the phase of work the project are operating in.

From August 2024, the remaining project works impacting runway services are broken into the following phases. Each phase will be activated via NOTAM.



Phase of Work	Lighting In Service	Lighting Out Of Service
4	Colour coded Runway Edge Lights Stop End Red Lights PAPIs 09R TDZ Lights 27L TDZ Lights 27L SALS 09R 420m Approach Lights 27L 900m Approach Lights	09R/27L Runway Centreline Lights 09R SALS 09R Approach Lighting (421 - 900m)
5	Colour coded Runway Edge Lights Stop End Red Lights PAPIs 09R TDZ Lights 09R SALS 27L SALS 09R 900m Approach Lights 27L 900m Approach Lights	09R/27L Runway Centreline Lights 27L TDZ Lights
6	Colour coded Runway Edge Lights Stop End Red Lights PAPIs 09R TDZ Lights 09R SALS 27L SALS 09R 900m Approach Lights 27L 900m Approach Lights	09R/27L Runway Centreline Lights 27L TDZ Lights
7	09R/27L Runway Centreline Lights Stop End Red Lights PAPIs 09R TDZ Lights 27L TDZ Lights 09R SALS 27L SALS 09R 900m Approach Lights 27L 900m Approach Lights Standard Runway Edge Lights	



5. Impact to Operations

5.1 Approach and Runway Centreline

For the duration of the runway resurfacing, the runway centreline AGL will be unavailable.

When the associated section of runway is being resurfaced, the TDZ and inset approach lights will be unavailable in that area.

The 09R Approach Lighting System will be replaced during this project. To achieve this the lighting will be completely removed and replaced in a phased programme. Once removed, it is expected that a 420m approach lighting system will be returned to the operation within 3 weeks, followed by the full 900m approach lighting system a further 3 weeks later. Communications outlining the phasing will be shared and all outages, and their replacement, will be covered by NOTAM.

Temporary runway centreline and taxiway centreline markings will be applied each night. A full runway paint will be carried out at the end of the project.

5.2 Runway Lead on/Lead off.

When the resurfacing works impact a particular runway entry/exit, the AGL lead on/off will be removed between the runway centreline and the painted runway edge marking. Associated blue edge lighting will be provided at the bell mouth to the appropriate runway entrance/exit, where appropriate.

The painted lead on/off centreline will still be present from the painted runway edge marking to the CAT 1 Runway Guard Bar.

The full lead on/off AGL (runway centreline to RGB) will be reinstated once the works have been completed for a particular entry/exit.

5.3 Low Visibility Operations

5.3.1 Arrivals

Except for those approved airlines, the removal of aspects of the runway and approach lighting will impact Runway 09R/27L operating minima. The ILS will continue to radiate at CAT 3 for the duration of the project, unless communicated otherwise.



When Runway 27L is the landing runway, it has been agreed that a de-alternation to landing on Runway 27R should take place whenever safeguarding is requested and LVP are forecast or expected; this **must** be coordinated with the AODM.

Once the IRVR is below 600m, Runway 09R/27L should not be used for landing, except for those approved airlines.

Following an improvement in visibility, the VCR Supervisor **must** consult with the AODM as to whether a re-alternation is required.

During periods of low visibility operations, a flow rate to air traffic movements may be applied by ATC to ensure the safe operation of aircraft on arrival, departure and whilst manoeuvring on the ground.

5.3.2 Departures

When the IRVR is below 400m, Runway 09R/27L should not be used for departures and the Northern Runway (09L/27R) utilised.

Aircraft that are committed to depart from Runway 09R/27L may be able to accept take off down to a minimum of 300m or less.

5.3.3 Entry/Exits

Below 400m, downgraded entry/exits will be inspected by Airside Operations and may continue to be used in LVP unless notified.

5.4 Friction

Throughout the resurfacing works there will be areas of newly laid asphalt that will be ungrooved. The length of ungrooved area will not exceed 330m.

Each morning Airside Operations will perform a friction test run of the runway surface and will promulgate any deficiencies, if required.



6. Safety

Only vehicles, equipment and personnel associated with the runway resurfacing works will be permitted within the works area. Access to site is controlled by the contractor, Volker Fitzpatrick, and a full site induction may be required.

Temporary floodlighting associated with the works must be directed downwards at all times and positioned so as not to distract or dazzle pilots.

All areas on the runway and associated with these works must be kept clean and thoroughly inspected prior to re-opening each morning.

7. Enquiries

Any questions regarding this instruction should be addressed HAL Airfield Operations on 0208 745 6024 or AerodromeCompliance@Heathrow.com.



Document Data

Document Name Runway Resurfacing 2024	Document Reference Number ASPROM_OSI_095	Issue Date 31st July 2024
Revision Date 31st July 2024	Version No. 1.0	Effective Date 31st July 2024
Author Name Lisa Allen	Approval Name Trevor Waldock	Technical Approval Name N/A
Aerodrome Manual Reference N/A	Airside Standard Reference N/A	Airside Plan Reference N/A

Document History

Revision	Description of Change	Date
v1.0	Initial issue	31st July 2024

