



Gatwick Airport Northern Runway Project

Environmental Statement

Appendix 15.4.1: Climate Change Resilience Definitions

Book 5

VERSION: 1.0

DATE: JULY 2023

Application Document Ref: 5.3

PINS Reference Number: TR020005

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1 Introduction

1.1 General

- 1.1.1 This document forms Appendix 15.4.1 of the Environmental Statement (ES) prepared on behalf of Gatwick Airport Limited (GAL) for the proposal to make best use of Gatwick Airport's existing runways and infrastructure (referred to within this report as 'the Project').
- 1.1.2 This document provides the climate change resilience (CCR) definitions for the Project.

2 Key terms

- 2.1.1 **Climate hazard:** a weather or climate related event which has potential to do harm to environmental or community receptors or assets, for example increased winter precipitation.
- 2.1.2 **Climate change impact:** an impact from a climate hazard which affects the ability of the receptor or asset to maintain its function or purpose.
- 2.1.3 **Consequence:** any effect on the receptor or asset as a result of the climate hazard having an impact

3 Climate Change Resilience definitions

3.1 Definition of asset types

- 3.1.1 As part of the CCR assessment, an asset has been defined as each individual structure that would be constructed or re-configured as part of the development, ie Pier 7 or re-configuration of Taxiway Juliet. All the individual assets have been grouped into asset types as presented in Table 3.2.1.

3.2 Hazards considered in the CCR assessment

- 3.2.1 The hazards that have been considered as part of the CCR assessment include: high temperatures, low temperatures, high precipitation, low precipitation, extreme winds and lightning.
- 3.2.2 Table 3.2.2 below presents the asset types and which hazards are applicable to each asset type.

Table 3.2.1: Assets included in each asset group

Asset Group	List of assets included in asset type
Airport infrastructure	Northern runway, taxiways Juliet, Lima, Tango, Whiskey, Victor and Zulu, exit taxiways, end around taxiways, aircraft holding area, Pier 6 and 7, stands, motor transport facilities, airfield surface transport facilities, emergency air traffic control tower and rendezvous point north, satellite airport fire protection service, extension to North and South terminals, including baggage hall areas, forecourts and transition space, new hotels and extensions to existing hotel, new office blocks, internal access routes, car parks (surface and multi-storey), surface access improvements, changes to the surface water strategy, alignments and additional runoff and treatment areas.
Airport operation	Airport buildings and ground operations (ABAGO), specifically for the climate assessments: CARE facilities, waste water treatment works extension, ground maintenance facilities, cargo, engine running areas, fire training ground.
Electronic equipment	Electronic equipment within new buildings.
Earthworks	Landscape/ ecological planting and cut/ fill strategy.

Table 3.2.2: Climate hazards applicable to each asset group

Asset group	High temperature	Low temperature	High precipitation	Low precipitation	Extreme winds	Lightning
Airport infrastructure	X	X	X		X	X
Airport operation	X	X				
Electronic equipment	X	X				
Earthworks			X	X		
Flights	X				X	X

4 Assets scoped into the ICCI assessment

4.1 Scope

- 4.1.1 The In-combination Climate Change Impacts (ICCI) assessment considered the extent to which climate change exacerbates effects on topic receptors which have already been identified in the other discipline chapters. The scope of and receptors identified for the ICCI assessment are outlined in Table 4.1.1.

Table 4.1.1: Disciplines scoped into the ICCI assessment

Asset Group	List of assets included in asset type
Chapter 7 Historic environment	Archaeology, built heritage and historic areas and the historic landscape
Chapter 8 Landscape, townscape and visual	Landscape character and visual effects
Chapter 9 Ecology and nature conservation	Habitats and wildlife species
Chapter 10 Geology and ground conditions	Geology and ground conditions
Chapter 11 Water Environment	Geomorphology, groundwater, water quality, flood risk, surface water drainage and wastewater
Chapter 12 Traffic and transport	Surface access and transport
Chapter 13 Air quality	Atmosphere, people, ecology and communities
Chapter 14 Noise and vibration	Residential properties and community facilities
Chapter 16 Greenhouse Gases	Aircraft, surface access, construction and operation
Chapter 17 Socio-economic	Existing and new residents and community assets
Chapter 18 Health and wellbeing	People and communities

Asset Group	List of assets included in asset type
Chapter 19 Agricultural land use and recreation	Agricultural land, walking, cycling and bridle routes and public open spaces

5 Glossary

5.1 Glossary of Terms

Table 5.1.1: Glossary of Terms

Term	Description
ABAGO	Airport Buildings and Ground Operations
CCR	Climate Change Resilience
ES	Environmental Statement
GAL	Gatwick Airport Limited
ICCI	In-combination climate change impacts