



AO-0222-B — Full Guidance Assistance to mobiles using 'Follow the Greens' procedures based on Airfield Ground Lighting (aprons/taxiways/runways)

Using Airfield Ground Lighting, mobiles will be guided along their cleared route, taking into account tactical decisions (made by the Apron Manager, Tower Ground Controller and Tower Runway Controller) and known constraints from the surface management system. The Airfield Ground Lighting infrastructure will switch automatically the taxiway centerline lights and stop bars accordingly for each mobile individually. The operational service is capable of automatically supporting a safe longitudinal and lateral spacing between mobiles and also managing priorities between mobiles on the aerodrome surface in all weather conditions.

In the context of trajectory based operations, this 'follow the greens' concept does not prevent the ground routing to be made available in the cockpit, for both pilot and on-board systems, for safety purpose.

Rationale There is a need of an advanced functionality of Airfield Ground Lighting that would cover the management of priorities to ensure lateral separation between mobiles on the movement area in all weather conditions.

Forecast V3 end date 31-12-2022

Benefits start date (IOC) 30-12-2027

Full benefits date (FOC) 30-12-2031

Current Maturity Level V1 finalised

Solution Data Quality Index -

Current Maturity Phase R&D

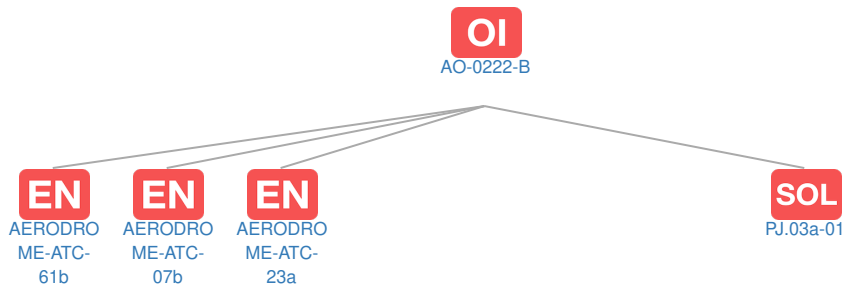
Scope -

Release -

PCP Status -

Context

Related Elements



EN Enablers

Code	Dates																										
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
AO-0222-B																											
🔒 AERODROME-ATC-61b							▲			V4	V5	IOC - FOC															
➔ AERODROME-ATC-07b							▲			V4	V5	IOC - FOC															
➔ AERODROME-ATC-23a	▲																										

OI Dependent OI Steps

Relationship	Code	Title	Related Elements
Has predecessor	AO-0205	Automated Assistance to Controller for Surface Movement Planning and Routing	SOL OI EN OBJ DS PCP ICAO
Has predecessor	AO-0222-A	Enhanced Guidance Assistance to mobiles based on the automated switching of Taxiway lights and Stop bars according to the 'Airfield Ground Lighting' operational service	SOL OI EN OBJ DS ICAO

SOL SESAR Solutions

Code	Title	Program	Related Elements
PJ.03a-01	Enhanced Guidance Assistance to Aircraft and Vehicles on the Airport Surface Combined with Routing	SESAR 2020 Wave 1	SOL PJ OI DS EOC ICAO

PCP PCP Elements: No associated data

OBJ Implementation Objectives: No associated data

ICAO ICAO Block Modules: No associated data