

(GACAR PART 139)

(	Information to be filled by Aerodrome Sa	afety Inspector/CF	PM)
Aerodrome Name			
Aerodrome Reference Code		Aerodrome Operator	
Inspection Type		Inspection Date	
Report Number		Report Date	
Name of Aerodrome Safety Inspector		Signature	
Name of Aerodrome Certification Manager		Signature	

#### **GENERAL INSTRUCTION**

- 1. This form of technical inspection must be filled with by GACA Aerodrome Safety Inspectors/Certificate Project Manager.
- 2. This form shall be used for the Technical Inspection during the aerodrome certification process and thereafter for audits, surveillance and un-Announced Inspections.
- 3. Aerodrome safety inspector, on completion of technical inspection for area of his/her expertise, shall complete this form and submit it to certificate project manager.
- 4. For any clarification, the General Manager (Aerodrome Standards) of General Authority of Civil Aviation, Kingdom of Saudi Arabia, may be contacted.

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GACA Regulations Reference	Items for Inspection	Compliance	Non-Compliance	Not Applicable	Notes/Remarks
RFF SERVICE	S (AIP PROMULGATION)				
LEVEL OF PRO	OTECTION				
139.223(a)	Whether Level of protection is promulgated in the AIP				
139.223(b)	Whether the aerodrome operator has a procedure to regularly reassess the traffic and update the level of protection including unavailability;				
139.223 (c)	Whether the aerodrome operator has made arrangements with the aeronautical information services, including ATS, to provide up-to-date information in case of any change in the level of protection;				
CERTIFICATIO	ON OF AERODROMES (SUBPART-B)				
139.141	Whether aerodrome operator has deployed the competent and experienced staff to operate and maintain the aerodrome properly?				
AERODROME	DATA (SUBPART-E)				
139.219 (d) (1)	Whether aerodrome operator has devised a training program for personnel assessing and reporting runway surface condition.				
139.219 (d) (2)	Whether above training program is implemented .				
139.219 (d) (3)	Whether records are available for implementation of the above training program.				
PHYSICAL CH	ARACTERISTICS ( SUBPART-F)				
1. Runway					
	Designation				
139.301(c)&(d)	Length m X Width m				
139.301 (e)	Minimum distance between parallel RWYs, if any.				
139.301 (f)	Slopes on RWYs.				
139.301 (g)	Strength of RWYs pavement.				

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139.301 (h)	Surface of RWYs.		
2. Runways Shoo	ulders		
139.303 (b)	Width of RWY Shoulders ( m)		
139.303 (c)	Slopes on RWY Shoulders		
139.303 (d)	Strength of RWY Shoulders		
3. Runway Turn	Pads		
139.305	Dimensions of RWY Turn Pads.		
139.305 (b)	Slopes on RWY Turn Pads.		
139.305 (c)	Strength of RWY Turn Pads.		
139.305 (d)	Surface of RWY Turn Pads.		
139.305 (e)	Shoulders for RWY Turn Pads.		
4. Runway Strips			
139.307 (b)	Length of RWY Strips.( m)		
139.307 (c)	Width of RWY Strips.( m)		
139.307 (d)	Objects on RWY Strips.		
139.307 (e)	Grading of runway strips		
139.307 (f)	Slopes on RWY Strips.		
5. RESA			
139.309 (b)	Dimensions of RESA.( x m)		
139.309 (d)	Clearing & Grading of RESA.		
139.309 (e)	Slopes on RESA.		
139.309 (f)	Strength of RESA.		
6. Clearways			
139.311 (a)	Location of CWYs.		
139.311 (b)	Length of CWYs.( m)		
139.311 (c)	Width of CWYs.( m)		
139.311 (d)	Slopes on CWYs.		
139.311 (e)	Objects on CWYs.		

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Width of SWYs.( m)				
Slopes on SWYs.				
Strength of SWYs.				
Surface of SWYs.				
r Operating Area				
Length of area.				
Width of area.				
Longitudinal slope changes of the area.				
Width of TWYs.( m)				
Taxiway curves.				
Junctions & intersections.				
Minimum separation distances.				
Slopes on TWYs.				
Strength of TWYs.				
Surface of TWYs.				
Rapid exit TWYs.				
TWYs on bridges.				
ulders				
Width of TWY Shoulders( m)				
s				
Width of TWY Strips.( m)				
Objects on TWY Strips.				
Grading of TWY Strips.				
Slopes of TWY Strips.				
s, (RWY, Intermediate, Road) Holding Position				
Location of the position.( m)				
	Slopes on SWYs.  Strength of SWYs.  Surface of SWYs.  r Operating Area  Length of area.  Width of area.  Width of TWYs.( m)  Taxiway curves.  Junctions & intersections.  Minimum separation distances.  Slopes on TWYs.  Strength of TWYs.  Surface of TWYs.  Rapid exit TWYs.  TWYs on bridges.  Ilders  Width of TWY Strips.( m)  Objects on TWY Strips.  Grading of TWY Strips.  Slopes of TWY Strips.  Grading of TWY Strips.  Slopes of TWY Strips.  Grading Position	Slopes on SWYs.	Slopes on SWYs.                     Strength of SWYs.                     Surface of SWYs.                     r Operating Area                     Length of area.                     Width of area.                     Longitudinal slope changes of the area.                     Width of TWYs.(       m)                   Taxiway curves.                     Junctions & intersections.                     Minimum separation distances.                     Slopes on TWYs.                     Strength of TWYs.                     Surface of TWYs.                     Rapid exit TWYs.                     TWYs on bridges.                     Idders                     Width of TWY Shoulders(       m)                     Width of TWY Strips.(                       Objects on TWY Strips.                       Grading of TWY Strips.                       Independent of TWY Strips.                       Slopes of TWY Strips.                         Independent of TWY Strips.                         Longitudinal slope changes of TWY Strips.                         Longitudinal slope changes of TWY Strips. <td< td=""><td>  Slopes on SWYs.  </td></td<>	Slopes on SWYs.

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13. Aprons				
139.325 (b)	Size of APRON.( X m)			
139.325 (c)	Strength of APRON Pavement.			
139.325 (d)	Slopes on APRON surface.			
139.325 (e)	Clearance distances on aircraft stands.			
14. Isolated Airc	raft Parking Position			
139.327	Location of isolated position.			
OBSTACLE R	ESTRICTION AND REMOVAL (SUBPART- (	<b>3</b> )		
15. Obstacle Lim	nitation Surfaces			
139.403(a) (1) to (6)	Non-Instruments Runway: Whether Conical Surface, Inner Horizontal Surface, Approach Surface and Transitional Surfaces are established.			
139.403(b) (1) to (6)	Non-Precision Runway: Whether Conical Surface, Inner Horizontal Surface, Approach Surface and Transitional Surfaces are established.			
139.403(c) (1) to (2)	Precision App RWY Cat-I: Whether Conical Surface, Inner Horizontal Surface, Approach Surface and Transitional Surfaces are established.			
139.403(c) (3) to (9)	Precision App RWY Cat-II&III: Whether Conical Surface, Inner Horizontal Surface, Approach Surface &Inner App surface, Transitional Surfaces & Inner transitional Surfaces and balked landing surface are established.			
139.405	Objects outside OLS.			
139.407	Other Objects			
139.411	Restriction and removal of obstacles			
139.413	Procedures to deal with obstacles in OLS			
139.415	Objects that could become obstacles			
139.417	Monitoring of obstacles			
139.419	Training			
VISUAL AIDS	FOR NAVIGATION (SUBPART-H)			
1. Indicators & S	ignaling Devices			
139.501 (a)	Wind direction indicator.			
139.501 (b)	Landing direction indicator.			
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139.501 (c)	Signaling lamp.		
139.501 (c)	Signal panels and signal area.		
2. Markings			
139.503 (b)	Runway Designation marking.		
139.503 (c)	Runway Centre line marking.		
139.503 (d)	Threshold marking.		
139.503 (e)	Aiming point marking.		
139.503 (f)	Touchdown zone marking.		
139.503 (g)	Runway side stripe marking.		
139.503 (h)	Taxiway center line marking.		
139.503 (i)	Runway turn pad marking.		
139.503 (j)	Runway-holding position marking.		
139.503 (k)	Intermediate holding position marking.		
139.503 (I)	VOR aerodrome checkpoint marking.		
139.503 (m)	Aircraft stand marking.		
139.503 (n)	Apron safety lines.		
139.503 (o)	Road-holding position marking.		
139.503 (p)	Mandatory instruction marking.		
139.503 (q)	Information marking.		
3. Lights			
139.505 (a)	Whether protected zones have been established against the hazardous effects of laser emitters.		
139.505 (b)	What measures are taken to extinguish or screen non aeronautical ground light which may cause confusion?		
139.505 (c)	Whether suitable light intensity control mechanism has been provided for adjustment of intensities of the AGL.		
139.505 (d)	Approach lighting systems.		
139.505 (e)	Visual approach slope indicator systems.		
139.505 (f)	Circling Guidance Light		

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139.505 (g)	Runway Threshold identification lights			
139.505 (h)	Runway edge lights.			
139.505 (i)	Runway threshold and wing bar lights.			
139.505 (j)	Runway end lights.			
139.505 (k)	Runway Centre line lights.			
139.505 (I)	Runway touchdown zone lights.			
139.505 (m)	Rapid exit taxiway indicator lights.			
139.505 (n)	Stop way lights.			
139.505 (o)	Taxiway Centre line lights.			
139.505 (p)	Taxiway edge lights.			
139.505 (q)	Runway turn pad lights.			
139.505 (r)	Whether stop bars meets the design characteristics ,interlocking requirements between TWY and Stop bars ad controlled by ATS.			
139.505 (s)	Intermediate holding position lights.			
139.505 (t)	Runway guard lights.			
139.505 (u)	Apron floodlighting.			
139.505 (v)	Visual docking guidance system.			
139.505 (w)	Advanced visual docking guidance system.			
139.505 (x)	Aircraft stand maneuvering guidance lights.			
139.505 (y)	Road-holding position light.			
4. Signs				
139.507 (b)	Mandatory instruction signs.			
139.507 (c)	Information signs.			
139.507 (d)	VOR aerodrome checkpoint sign			
139.507 (e)	Road-holding position sign			
5. Markers				
139.509	General			
VISUAL AIDS	FOR DENOTING OBSTACLES (SUBPART-	)		

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1. Objects to be i	marked and/or <u>lighted</u>							
139.601 (a)(1)	Vehicles & other mobile objects.							
139.601 (a)(3)	Whether obstacles are marked and li	ighted.						
139.601 (a)(4)	Whether Fixed obstacle are marked and lighted.							
2. Marking and/o	r lighting of objects							
139.603 (b)	Marking/lighting of mobile objects							
139.603 (c)	Marking/lighting of fixed objects							
139.603 (d)	Marking/lighting of Wind Turbines.							
139.603 (e)	Marking/lighting of overhead wires a etc.	nd towers						
VISUAL AIDS	FOR DENOTING RESTRICTED L	JSE AREAS	s (SU	BPAF	RT-J)			
1. Closed runway	s and taxiways, or parts thereof:							
Location of a Clo	sed Area	☐ Runway			□ Та	xiway	☐ Both	□NIL
Type of the closu	re on Runways	☐ Perman	ently			☐ Tempo	orarily	□ NIL
Type of the close	ure on Taxiways	☐ Perman	ently			☐ Temporarily		□ NIL
139.701 (b)	Locations of closed markings on RW TWYs	'Ys or						
139.701 (c)(1)	Dimension & color of closed marking TWYs	ı. RWYs or						
139.701 (c)(2)	Whether closed markings are oblitera RWYs or TWYs	ation						
139.701 (c)(3)	Whether Lights are in operation on a RWYs or TWYs.	closed						
2. Non-load-bear	ing surfaces							
139.703	Taxi side stripe marking.							
3. Pre-threshold	area							
139.705	Chevron marking.							
4. Unserviceable	areas							
139.707 (c)	Unserviceability markers.							
139.707 (d)	Unserviceability lights.							
139.707 (e)	Unserviceability cones							
139.707 (f)	Unserviceability flags							
139.707 (g)	Unserviceability marker boards.							

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ELECTRICAL	SYSTEMS (SUBPART –K)				
1. Electrical pow	er supply systems for air navigation facilities				
139.801 (a)	Primary power supply.				
139.801 (c)	Secondary power supply/Automatic switch-over.				
139.801 (e)	Switch-over time				
2. System Desig	n				
139.803	System Design				
193.803 (a)	Whether system designed will leave the pilot with inadequate visual guidance/information in case of equipment failure when the runway is used below RVR of 550 m.				
3. Monitoring					
139.805	Efficiency of monitoring				
139.805 (b)	Whether lighting system is capable of relaying automatic information/indicating to Air Traffic Services unit about any fault.				
AERODROME	OPERATIONAL SERVICES, EQUIPMENT	AND II	NSTA	LLAT	IONS (SUBPART-L)
1. AERODROME	E EMERGENCY PLANNING				
139.901(a) (1)	Whether aerodrome emergency plan is established.				
139.901(a) (2)	Whether AEP Committee is established.				
139.901(a) (3)	Whether medical services and supply Available.				
139.901(a) (6)	Whether coordination and cooperation exist				
139.901(a) (7)	Whether AEP has required documents				
139.901(a) (8)	Whether AEP observe Human factor principles				
139.901(b)(1)	Whether Fixed Operation center and a mobile command post exist.				
139.901(b) (4)	Whether persons are assigned to man the Emergency operation center and command post				
139.901(c)	Whether communication system exists				
139.901(d)	Aerodrome Emergency Exercises				
139.901(e)	Whether AEP can handle emergencies in difficult environments.				
2. RESCUE AND	FIRE FIGHTING				
139.903(a)(2)	Whether Aerodrome is located close to water/swampy area.				

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139.903(b)(1)	Whether the level of protection provided is adequate		
139.903(c)	Whether sufficient quantity of Principal and Complimentary agents available		
139.903 (d)	Whether specific rescue equipment is provided in adequate number and type when the area to be covered by the RFF service includes water.		
139.903 (e)(1)	Whether the response time complies with the applicable regulation and is regularly tested. This check should be formalized in the RFF procedures;		
139.903 (e)(4)	Whether the RFF service has a procedure describing the maintenance of the RFF vehicles and ensuring that this maintenance is formally monitored;		
139.903 (f)	Emergency access roads		
139.903 (g)	Whether the RFF service is provided with an up-to-date map of its response area, including the access roads;		
139.903 (h)	Whether a communication and alerting system is provided between the fire station, the control tower and the RFF vehicles;		
139.903 (i)	Number of rescue and fire fighting vehicles		
139.903 (j)	Whether the number of RFF vehicles is consistent with the applicable regulation;		
139.903 (j)(1)	Whether the training of all RFF personnel is adequate and monitored;		
139.903 (j)(1)	Whether the training facilities, which may include simulation equipment for training on aero plane fires, are available;		
139.903 (j)(3)	Whether the number of RFF personnel is consistent with the level of protection appropriate to the aerodrome RFF category;		
139.903 (j)(5)	Whether the protective clothing and respiratory equipment provided are consistent in quality and quantity in accordance with the applicable regulation, and the respiratory equipment is properly checked and their quantities formally monitored;		
139.905(a)	Check whether the plan for the removal of disabled an aircraft established.		
3. WILDLIFE HA	ZARD MANAGEMENT		
139.907(b)	Check as to how the reporting of wildlife incidents to GACA, filing and when the action is taken		
139.907(c)	Check the monitoring action and conduct wildlife assessment		
139.907(d)	Check aerodrome vicinity after taking discouraging action		
139.915	Surface movement guidance and control systems		
139.915 (a)	Whether selective switching of stop bars and taxiway center line lights is available?		

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139.917	Sitting of equipment and installations on operational areas		
139.917 (a)	Whether equipment or installations located near or on a runway, on the non-graded portion of a runway strip, or on precision approach runways complies with frangibility requirements?		
139.919	Fencing		
139.919 (1)	Whether suitable barriers to aerodromes and off-aerodrome ground installations and facilities, are available.		
139.919 (2)	Whether lighting of security fences is available?		
AERODROME	MAINTENANCE (SUBPART-M)		
General			
139.1001	Whether maintenance program has been developed in the interests of safety, efficiency and regularity of aircraft operations?		
1. Pavements			
139.1003 (a)	Avoiding and eliminating any FOD from surfaces of all movement areas.		
139.1003 (b)	Whether maintenance program include taxiway and apron pavements and taxiway shoulders in relation to surface debris and harmful irregularity?		
139.1003 (c)	Surface friction characteristics.		
139.1003 (h)	the drainage characteristics of a runway.		
2. Removal of Co	ontaminants		
139.1005	Whether contaminants are removed from the surface of runways rapidly and completely?		
3. Visual aids			
139.1009 (a)	Measurement of lights intensity.		
139.1009 (b)	General condition of lighting and marking.		
139.1009 (c)	The system of Preventive maintenance employed is capable to achieve the maintenance level as agreed in the aerodrome manual.		
a. For precision a	approach category II & III RWY;		
139.1009 (c) (1)	Preventive maintenance system for approach & RWY lighting system.		
139.1009 (c)(2)	Measurement of characteristics of electrical circuits of approach & RWY lighting system.		
139.1009 (c)(3)	Light intensity control from ATC.		

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GENERAL					
1	Whether training program has been developed for each employee in Operations, RFFS, Maintenance, and Safety.				
2	Whether training program implemented is supported by the training records.				
3	Whether the competence assessed of the operational and maintenance staff is satisfactory.				
<b>Remarks,</b> ( Aerodrom given belov	e Safety Inspector shall write any additional information	/findin	gs obs	erved	during the technical inspection in the space
	DETAILS OF GACA AERODRO	OME S	SAFE	TY IN	ISPECTORS
No.	DETAILS OF GACA AERODRO		S <b>AFE</b> ignati		NSPECTORS  Date
No. 1.					
1.					
1.					
1. 2. 3.					
1. 2. 3. 4.		S	ignati	ure	Date
1. 2. 3. 4.	Name	TION	ignati	DJEC	Date
1. 2. 3. 4. 5.	DETAILS OF GACA CERTIFICA	TION	N PRO	DJEC	T MANAGER

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