



EAC
No. 139-33
Operational safety on
airports during Construction (WIP).
2024

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Operational safety on airports during construction (WIP)

BACKGROUND

In accordance to ECAR 139.335 (i), EAC 139.25 chapter (8), **a risk assessment/aeronautical study and a Work safety plan** should be prepared by the Aerodrome Operator prior to commencement of any aerodrome construction/development project, so as to ensure that necessary precautions shall be undertaken with the aim to accomplish highest safety levels during the construction/development works.

Penalty provisions for noncompliance with airport rules and regulations should be included in the safety plan (e.g., if a vehicle is involved in a runway incursion).

To this end, Aerodrome operators are, hereby, required to fill in all the necessary information required in the herewith-attached checklist (Appendix 1) one separate form for each project- and provide it to ECAA, in duplicate, at least 30 days prior to the planned commencement date of the project.

Aerodrome Operators are also kindly requested to attach the project drawings to the checklist to be reviewed and approved by ECAA.

- (a) Scope of work.
- (b) Duration of work.
- (c) Areas and operations affected by the construction activity, including possible safety problems.
- (d) Marking and lighting of the movement area affected by the construction activity including means of separating construction areas from aeronautical-use areas.
- (e) Procedures for protecting all runway and taxiway safety areas, obstacle-free zones (OFZs). This includes limitations on equipment height and stockpiled material.
- (f) NAVAIDs that could be affected, especially critical area boundaries.
- (g) Methods of separating vehicle and pedestrian construction traffic from the airport movement areas. This may include fencing off construction areas to keep equipment operators in restricted areas in which they are authorized to operate.
- (h) Procedures and equipment, such as barricades (identify type), to delineate closed construction areas from the airport operational areas, as necessary.
- (i) Limitations on construction.
- (j) Required compliance of construction project personnel with all airport safety and security measures to ensure that no entry to any part of the air operations areas (AOAs) from the construction site unless authorized.
- (k) Location of stockpiled construction materials, construction site parking, and access and haul roads.
- (l) Radio communications.
- (m) Vehicle identification.
- (n) Trenches and excavations and cover requirements.
- (o) Procedures for notifying ARFF personnel if water lines or fire hydrants must be deactivated or if emergency access routes must be rerouted or blocked.
- (p) Emergency notification procedures for medical and police response.
- (q) Use of temporary visual aids.
- (r) Wildlife management.
- (s) Foreign object debris (FOD) control provisions.
- (t) Hazardous materials (HAZMAT) management.
- (u) NOTAM issuance.
- (v) Inspection requirements.
- (w) Procedures for locating and protecting existing underground utilities, cables, wires, pipelines, and other underground facilities in excavation areas.
- (x) Procedures for contacting responsible representatives/points of contact for all involved parties. This should include off-duty contact information so an immediate

response may be coordinated to correct any construction-related activity that could adversely affect the operational safety of the airport. Particular care should be taken to ensure that appropriate Airways Facilities personnel are identified in the event that an unanticipated utility outage or cable cut occurs that impacts NAVAIDs.

- (y) Vehicle operator training.
- (z) Penalty provisions for noncompliance with airport rules and regulations and the safety plan (e.g., if a vehicle is involved in a runway incursion).
 - (1) Any special conditions that affect the operation of the airport and will require a portion of the safety plan to be activated (e.g., low-visibility operations, snow removal).
 - (2) Name and tele. No. for the person responsible to coordinate an immediate response to correct any construction-related activity that may adversely affect the operational safety of the airport.
 - (3) Final approval authority and responsibility for all safety plans.

Note: the appendix 2 guide for review the documents before submitting to ECAA |

Appendix 1

petition for work in progress

APPENDIX 30

AERODROME CHECKLIST FOR WORK IN PROGRESS

ECAA FORM 2002-32

Complete all sections of the form as indicated. Submit in duplicate to the ECAA.			
A. Aerodrome Data			
1. Name of Aerodrome		2. Address (Number, Street, P.O. Box)	
3. City		4. Postal reference	
B. Operational Data			
1. Operator: <input type="checkbox"/> EAC <input type="checkbox"/> Private <input type="checkbox"/> BOT <input type="checkbox"/> Other (explain)		2. Joint use aerodrome is <input type="checkbox"/> Civil / military joint use	
3. Name of Owner		4. Name of Manager	
Number/Street/P.O. Box		Number/Street/P.O. Box	
City	Postal Reference	City	Postal Reference
5. Project Manager Name:		Telephone No:	
Project Coordinator: <i>(Name of the person responsible to coordinate an immediate response to correct any construction-related activity that may adversely affect the operational safety of the airport).</i>			
Tele. No:			
C. Project Data			
1. Scope of work.			
2. Planned commencement date:		3. Planned completion date:	
		4. Planned working hours	
5. Project plans and specifications are prepared in accordance with applicable ECARs <input type="checkbox"/> yes <input type="checkbox"/> no			
If the answer is no, state the following: 1. Deviation 2. Reasons for deviation 3. Prepared procedure to ensure safety			
6. Project plans and specifications include Quality Control and acceptance tests.			

7.Areas and operations affected by the construction / development works:	
1.	
2.	
3.	
8. Possible Safety Problems and proposed action / procedures to mitigate each problem .	
Problem	Proposed Action/Procedures
1.	
2.	
3.	
9. Procedures for protecting :	
<ul style="list-style-type: none"> runway safety areas and taxiway strip , obstacle-free zones (OFZs). 	
10. Procedures and equipment, such as barricades (identify type), to delineate closed construction areas from the movement area, as necessary.	
11. Procedures for notifying ARFF personnel	
<ul style="list-style-type: none"> if water lines or fire hydrants must be deactivated or if emergency access routes must be rerouted or blocked. 	
12.Procedures for locating and protecting existing underground utilities, cables, wires, pipelines, and other underground facilities in excavation areas.	
13. Location of:	
<ul style="list-style-type: none"> stockpiled construction materials, construction site parking, and access and haul roads. 	
14. Limitations on construction (area-time-persons-equipment-noise,...etc).	
15. limitations on:	
<ul style="list-style-type: none"> equipment height and stockpiled material. 	
16. NAVAIDs that could be affected, especially critical area boundaries	
15. Methods of separating vehicle and pedestrian construction traffic from the airport movement areas.	
17. Compliance of construction project personnel with all airport safety and security measures to ensure that no entry to any part of the movement area from the construction site unless authorized.	
18. Radio communications	
19. Vehicle identification (denoting).	
20. Trenches and excavations and cover requirements.	

21. Emergency notification procedures for medical and police response.			
22. Use of temporary visual aids.			
23. Wildlife management.			
24. Foreign object debris (FOD) control provisions			
25. Hazardous materials (HAZMAT) management.			
26. NOTAMs. <ul style="list-style-type: none"> ▪ Initiation ▪ currency ▪ cancellation 			
27. Vehicle operator training.			
28. Procedures for contacting responsible representatives/points of contact for all involved parties.			
29. Any special conditions that affect the operation of the airport and will require a portion of the safety plan to be activated (e.g., low-visibility operations, snow removal).			
E. Attachments <input type="checkbox"/> Check here if you have attachments, and list it below:			
D. Remarks <input type="checkbox"/> Check here and use reverse side of this sheet			
Applicant Signature		Applicant Address/Number/Street or P.O.	
Applicant Name (typed)		City	
Applicant Title	Date Submitted	Postal Reference	Telephone No.
ECAA USE ONLY			
1. Date Application Received		2. Date Proposed for Processing	
4. Recommended for <input type="checkbox"/> Revise <input type="checkbox"/> Acceptance	Date	Signature	Title
5. Remarks			

APPENDIX 2

Review Aerodrome work safety plan check list

Name of Aerodrome/Aerodrome:

AD ICAO CODE :

REF. CODE:

Last Inspection date:

Doc. Received Date:

Name of Operator:

Inspector(s) name (s)

CODE NO.	REFERENC E NO Ecar 139.335.i EAC 139-33	S/N	QUESTION	Aerodrome inspector review	
				STATUS	REMARKS
AGA-52-1.		1.	Does the document contain:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-2.		2.	Project title? e.g. Apron/Runway expansion and project description	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-3.		3.	Aerodrome Manager: (name, title, organization)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-4.		4.	Does it include the following information?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-5.			A full description of the planned construction project?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-6.			List of different stages of the construction activities with anticipated start and finish dates?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-7.			List of the types of aircraft and number of daily movements anticipated during the construction period?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-8.			What will be the impact of the project on disruptions to air traffic?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-9.			Position and height of equipment (Relative to Runways & Taxiways)? have height prelate .	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-10.			Work adjacent to Runway/Taxiway (stating the zone you will be working in, and which restriction and operational conditions will apply to your project)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-11.			Description of all markings, barriers and lighting to be used to indicate unserviceable areas of the aerodrome?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-12.			prevent aircraft from entering permanently closed runways and taxiways by removing lighting , sign and obliterating normal markings	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-13.			Displaced and/or Relocated Thresholds with supporting explanation for why it is required, new threshold marking and lighting, buffer for jet or prop blasting consideration, slope calculations etc?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-14.			Declared distance during all phases (based on above calculations)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-15.			Safety risk assessment include : Possible safety problems and proposed action /procedures to mitigate each problem. proposed action /procedures	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-16.			Procedures for protecting Runway safety areas and Taxiway strip , Obstacle –free zone (OFZs)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US

AGA-52-17.		Procedures for notifying ARFF personnel If water lines or fire hydrants must be deactivated or. If emergency access routes must be rerouted or blocked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-18.		Procedures for locating and protecting existing, underground utilities, cables, wires, pipelines, drainage structures and other underground facilities in excavation areas .	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-19.		Location of : Stockpiled construction materials , Construction site parking, and Access and haul roads ,	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-20.		Limitations on construction (area-time-persons-equipment-noise etc) had been identified?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-21.		NANAIDS that could be affected, especially critical areas boundaries.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-22.		Compliance of construction project personnel with all airport safety and security measures to ensure that no entry to any part of the movement area from the construction site unless authorized.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-23.		Trenches and excavation and cover requirements.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-24.		Emergency notification procedures for medical and police response.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-25.		Wildlife management.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-26.		Foreign object debris (FOD) controls provisions.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-27.		Hazardous materials (HAZMAT) management.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-28.		Procedures for contacting responsible representatives /points of contact for all involved parties.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-29.		Any specials conditions that affect the operation of the airport and will require apportion of the safety plan to be activated (eg . low –visibility operations, snow removal).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-30.		Standard taxi rout	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-31.		Are there safety super supervisors for each activity of the works to ensure proper coordination and safety of operation ?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-32.		Does the operator designate look- out persons and wear identifiable reflective jackets?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-33.		Are all personnel working on the airside wear approved reflective jackets for easy identification ?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-34.		Are waste disposal responsibilities assigned?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-35.		Have employee parking and staging area being created ?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-36.		Are revised vehicular control procedure available , where necessary ?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-37.		Any marking and lighting of construction offices?(if needed)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US

AGA-52-38.			Any security controls on temporary gates and relocation fencing ?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-39.			Noise pollution control, where applicable?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-40.			Blasting control where applicable?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-41.			Dust control, where applicable?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-42.			Communication Plan	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-43.			Radio communications	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-44.			Communications Plan prior to construction & during construction covering aerodrome clients/users, ATS and the Authority during all phases of the project consisting #1: Planning Phase, #2: Pre-construction Phase #3: Construction Phase?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-45.			Are there reports on meetings with operators and users prior to the commencement of the project?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-46.			Does it include a list of persons responsible for the construction and their respective duties?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-47.	.74		Is the Work Safety Officer specified and his functions included	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-48.			NOTAMS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-49.			NOTAMS text line with aircraft taxi route and project time line.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-50.			Will there be any modifications to the aeronautical publications to be issued?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-51.			Military coordination had been achieved .	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-52.			Is the project description Indicating:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-53.			Details of relocation of aerodrome installations from one location to another with dates?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-54.			Whether or not the work will require any aerodrome closure or rescheduling of flights by carriers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-55.			Circulation Of Construction Vehicles	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-56.			Vehicle identification (denoting).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-57.			Vehicle operator training.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US
AGA-52-58.			Does the method of work plan define circulation of Construction Vehicles during construction through defined locations with reference to Plans?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S <input type="checkbox"/> US

AGA-52-59.			Are the vehicles allowed access to the movement areas provided with correct rotating beacons?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S	<input type="checkbox"/> US
AGA-52-60.			Methods of separating vehicle and pedestrian construction traffic from the airport movement areas.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S	<input type="checkbox"/> US
AGA-52-61.			Do all vehicle drivers allowed to the work areas in possession of access permits?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S	<input type="checkbox"/> US
AGA-52-62.			At a controlled aerodrome, are vehicles used by work parties carrying out aerodrome works on the movement area equipped with a radio for two – way communications with the aerodrome air control tower units?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S	<input type="checkbox"/> US
AGA-52-63.			Aerodrome Pass(Security)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S	<input type="checkbox"/> US
AGA-52-64.			Does the plan indicate an aerodrome pass system in place for construction workers, access control, vehicle operation and escorts?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> S	<input type="checkbox"/> US