

REQUIREMENTS FOR CONSTRUCTION WORKS IN THE AIRSIDE (CHANGI AIRPORT)

1 Construction Works in the Airside

- 1.1 Construction works in the airside refer to works on or near aircraft movement areas and on the roadway system that result in physical changes to infrastructure in the airside, e.g. new runway, taxiway, aircraft stands, buildings, roads, pavements, fixtures, systems, etc.
- 1.2 Construction works within the operating aerodrome may impact the use of airside facilities for aircraft operations and ground handling operations and vehicular traffic. The requirements stipulated in this document apply to construction works, including preparatory activities, in the airside.
- 1.3 The following areas and systems are defined as airside facilities:
 - a. Aircraft Manoeuvring Areas – runways, runway strips, taxiways, taxiway strips and taxilanes;
 - b. Operational systems (e.g. airfield lighting, iFerret, navigation aids, etc.) and their respective critical and sensitive areas, if applicable;
 - c. Apron – aircraft stands (including equipment staging area), equipment parking area, Aircraft Docking Guidance System, Passenger Loading Bridge, fuel pits and emergency stop switch, flood lights, INS signs, CCTV cameras, etc.;
 - d. Critical installations – AFLCC, ILS LLZ Building, Middle Marker, GP Building, South Pump House, Fire Station, Ramp Tower, etc.;
 - e. Roadways – Perimeter Road, primary and secondary roadways in the aprons, etc.; and
 - f. Baggage Handling Area (BHA) – Baggage Handling System (BHS), parking or staging area, and driveway within BHA.

Note: For the purpose of Airside Work Permit application, all the above except (f) are considered part of the airfield.

- 1.4 The Project Officer who is managing construction works in the airside shall ensure that the Work Party carrying out the works are properly briefed and informed of the requirements stipulated in the latest edition of the Airport Operational and Safety Requirements (AOS), Airside Works Procedure Manual (AWPM).
- 1.5 No construction activities shall take place in the airside unless approval has been granted by CAG Airside Development & Baggage (Airside Works team).
- 1.6 Refer to Annexes A – D for more details.

1 Airside Work Permit (Airfield)

- 1.1 The Project Officer is required to engage Airside Development & Baggage (Airside Works team) on the scope of works to be carried out in the airside **at least 3 months** prior to the targeted commencement of works.
- 1.2 The purpose for consultation is to assess the impact on operations and to confirm the need for closure of affected airside facilities, if any. Please forward your enquiries via email to Airside Works team at grp.airsideworks@changiairport.com. Alternatively, enquiries can also be forwarded to lim.sengkee@changiairport.com
- 1.3 The Project Officer is required to provide information about the proposed works, including but not limited to the following:
 - a. Purpose/nature of works;
 - b. Proposed work schedule indicating the dates and working hours;
 - c. Schematic superimposed on maps/architectural drawings/layout plans of current infrastructure indicating clearly the areas of works and the boundary of each work site (including areas for staging machinery and equipment, assembly area, site office etc.);
 - d. Phasing plan for various stages of works (including pre-construction activities, e.g. ground surveys);
 - e. Approved risk assessment(s), documenting relevant risks and corresponding mitigating measures for safety hazards and potential disruptions to aircraft operations, and ground handling operations;
 - f. Associated changes to procedures, e.g. push-back, road diversion, etc.; and
 - g. Contact details of key personnel from the project management team, inclusive of consultant/main contractor.

1.4 The Project Officer is required to consult the relevant stakeholders on the considerations related to safety, the method of works, impact on security and operations of critical systems and safety prior to seeking approval from Airside Works team to commence works. Furthermore, written approval/ permits are required for certain work activities. Refer to the list of stakeholders in the table below.

Area of Concern	Approving Agency for Pre-requisite Requirements
Works affecting airport security infrastructure	Aviation Security (CAG) and Airport Police Department
Works on the inner perimeter fencing and/or PIDS	Engineering & Development Group (CAG) and Aviation Security (CAG)
Hot works	Airport Emergency Services (CAG)
Works requiring isolation of fire alarm system	Airport Emergency Services (CAG)
Works within another project’s work boundary	Relevant Project Officer
Works affecting tenanted and/or operational spaces	Rentable Properties (CAG), Airside Operations (CAG), Engineering & Development Group (CAG) and/or Airport Emergency Service (CAG)
Works affecting/on the external façade of terminal buildings	Facilities Management (CAG)
Works on/affecting active roadways	Airside Management (CAG) and Airside Operations (CAG)
Closure of aircraft stands/ roadways	Airside Operations (CAG)
Closure of Aircraft Manoeuvring Area	Airside Operations (CAG) and Changi Tower (CAAS)
Aerodrome reporting requirements (e.g. AIP and NOTAM)	Airside Operations (CAG)
Trial hole works	Refer to stakeholders in AOS
Earthworks	Refer to stakeholders in AOS
Obstacle clearance for works involving tall machinery/equipment	Air Navigation Services Policy & Planning Division (CAAS)
Works near radio navigation and landing aids	Aeronautical Telecommunications & Engineering Division (CAAS)
Works on airfield lighting system, drainage, M&E systems	Engineering & Development Group (CAG)
Works on CCTV, iFerret, ADGS	Engineering & Development Group (CAG) and Airside Operations (CAG)
Works affecting fire hydrant system	Airport Emergency Services (CAG)
Works affecting fuel system	Changi Airport Fuel Hydrant Installation (CAFHI)
Works on Baggage Handling System or works in the Baggage Handling Area	Engineering & Development Group (CAG) and Airside Development & Baggage (Baggage Ops) (CAG)

1.5 The Project Officer is encouraged to use the “How-to-complete-AWP” Guide (see Supplementary Document for Appendix 1 to Annex A) to guide him/her in verifying that all the necessary requirements in the “Checklist for Project Officer (Airfield)” (see [Appendix 1](#)) have been fulfilled before submitting the application to Airside Works team for approval.

- 1.6 The Project Officer shall prepare the “Airside Work Permit (Airfield)” form (see Appendix 2) and submit together with the supporting documents via email to Airside Works team as listed in paragraph 1.2.
- 1.7 The application shall be submitted **at least 3 working days** (not inclusive of the submission date) prior to the requested start date; failure which the application may be rejected due to insufficient processing time. Do note that the required 3 working days will be reset if the application is rejected.
- 1.8 Construction activities shall **not** commence until approval has been granted by Airside Works team. Upon approval, the Project Officer must ensure that works are conducted within the approved duration and authorised daily working hours at the approved work site(s).
- 1.9 The Project Officer shall ensure that the approved work sites are well maintain and hazards are kept under control. As such, the conduct of housekeeping activities such as grass cutting, FOD and waste disposal, cleaning of temporary site office and/or access roads, etc., does not require approval by Airside Works team.
- 1.10 For extension of permit, a fresh application will be needed. However, if there are no changes to the earlier supporting document(s), references to these supporting document(s) can be stated in the application without having to attach a copy.
- 1.11 In the event of early completion of works before the approved end date, the Project Officer is encouraged to update Airside Works team accordingly.

2 General Instructions

- 2.1 Any incidents in the airside must be reported immediately to Airside Operations - Airside Management Centre (AMC) at 6541-2275 immediately. The Project Officer or appointed representative shall respond immediately to the site to take immediate control of the area and to prevent exacerbating safety hazard or further disruption to operations.

- 2.2 During the course of works, Airside Operations or Air Traffic Control may issue instructions to stop work arising from non-compliance, e.g. unauthorised works, failure to abide by aerodrome safety requirements or due to operational reasons etc. Upon receiving stop work instruction, the Project Officer shall take immediate actions to clear all equipment and personnel from the work area. The Project Officer shall provide an update to Airside Operations as soon as the work area is cleared.

**Checklist for Project Officer
(Airfield)**

Appendix 1
to Annex A

Project Title: _____

Scope of Works: _____

This checklist is designed to assist the appointed Project Officer in complying with all the necessary requirements **before** the application for Airside Work Permit. Supporting documents (marked with an "*") are to be appended with the application. Alternatively, references to approved document can also be made to support the application for subsequent applications. For this, the reference and approval date are to be stated in the Remarks column.

<u>S/N</u>	<u>Description</u>	<u>Status (✓ if completed, else N.A.)</u>	<u>Remarks</u>
	<u>Airport Operational & Safety (AOS) Requirements</u>		
1	The Work Party has obtained the latest copy of the AOS requirements; has read and is able to comply with the requirements.	<input type="checkbox"/>	
	<u>Works on Security Gates, Fences or Related Facilities</u>		
2	For works on the inner perimeter fencing of the airport, the application* has been approved by E&D/CAG and AVSEC/CAG. (Refer to AOS, Section A)	<input type="checkbox"/>	
3	The erection of new security fence, door, gate or barrier has been completed and accepted by CAG and APD before works affecting the existing security fence, door, gate or barrier is allowed to commence. (Refer to AOS, Section A)	<input type="checkbox"/>	
4	AVSEC/CAG and APD have been consulted on works near or affecting airport security infrastructure. (Refer to AOS, Section A)	<input type="checkbox"/>	
	<u>Airport Fire Safety Requirements</u>		
5	The Work Party is able to comply with the airport fire safety requirements as stipulated in the CAG Fire Safety Manual and also the regulations and safety practices of the SCDF. (Refer to AOS, Section B)	<input type="checkbox"/>	
	<u>Hot Works</u>		
6	The Hot Work Permit* has been approved by AES/CAG. (Refer to AOS, Section B)	<input type="checkbox"/>	
	<u>Works requiring Isolation of Fire Alarm System</u>		
7	Isolation of Fire Alarm System* has been approved by AES/CAG. (Refer to AOS, Section B)	<input type="checkbox"/>	

Airport Safety Training

8 The Work Party's personnel (supervisory level) have attended the Airport Operational and Safety (AOS) briefing and test. (Refer to AOS, Section C)

Work Programme

9 The work proposal (e.g. Method Statement, design, demarcation layout, type of barricade used etc.) and detailed daily programme for the works have been approved by the Project Officer. (Refer to AOS, Section C)

10 For works affecting/impacting any aircraft manoeuvring areas, the Project Officer is satisfied that the Work Party's Standard Operating Procedures (SOPs) comply with CAG's requirements and procedures, as well as the MOAS. (Refer to AOS, Section C)

11 For works within another project's work boundary, the Project Officer has sought concurrence to co-exist and ensure that coordination between the two project teams has been established.

Please state the name of Project Officer whom you have liaised with.

12 For works affecting tenanted (e.g. parking lots, EPA) and/or operational spaces (e.g. offsite ESA, Evacuation Assembly Area, access route to critical installations), the Project Officer has coordinated with the respective stakeholders to co-exist and if necessary, alternative arrangements have been made to address the stakeholder's concerns.

Note: critical installations include, but are not limited to, AFLCC, GP building, LLZ building, MM hut, Fire Stations, VIP complex etc.

13 Facilities Management/CAG has been consulted and concurred with the works affecting the external façade of the terminal building.

14 For works within RSAF's operational areas (West of Runway 02L/20R or East of Runway 02R/20L), the RSAF has approved the work programme to be carried out. (Refer to AOS, Section C)

Works affecting Active Roadway or Pedestrian Foot Path

15 Prior to the commencement of works, the Work Party has submitted a detailed proposal on the plans to carry out the works, including all the necessary safety and traffic marshalling measures to the Project Officer for evaluation and approval. (Refer to AOS, Section C)

- 16 Airside Management/CAG has been consulted on any potential impact to safety and has concurred with the works on/affecting active roadway or pedestrian foot path.
- 17 Airside Ops/CAG has been consulted on any potential impact to operations and has concurred with the works on/affecting active roadway or pedestrian foot path.
- 18 The request for closure of roadway* has been approved by Airside Ops/CAG.
- Closure of Airside Facilities
- 19 The request for closure of aircraft stand(s)* has been approved by Airside Ops/CAG.
- Please state the reference number of AIP Supplement (if required).**
- 20 The request for closure of the aircraft manoeuvring area(s)* has been approved by Airside Ops/CAG and Changi Tower/ CAAS and the associated NOTAM(s)* issued.
- Please state the reference number of NOTAM/AIP Supplement.**
- 21 For work activities which coincide with runway closure period, arrangement has been made for the Work Party to report to Runway Entry/Exit Point (REP).
- Aerodrome Reporting
- 22 The Project Officer has read and understood the requirements listed in Changi Aerodrome Manual (CAM) Section 4.1 Aerodrome Reporting. Project Officer has consulted and obtained confirmation from Airside Ops on the requirement (current/impending/non-issuance) of AIP Supplement/AIP Amendment/AIC for the purpose of the works.
- Trial Hole Works
- 23 The application for permit to carry out trial hole works* has been approved. (Refer to AOS, Section C)
- Earthworks
- 24 The application for permit to carry out Earthworks* has been approved. (Refer to AOS, Section C)

Use of Mobile Machinery, Tall Construction Machinery/Plant, Temporary Structures, Stockpile

25 The application for the deployment of mobile machineries, tall construction machineries/plant, temporary structures, stockpile* has been approved by CAAS Air Navigation Services (ANS) Policy & Planning Division. (Refer to AOS, Section D)

26 If there is a requirement to demobilise machinery for operational reasons to another area within the airside (designated as staging area), that staging area* has been approved by CAAS Air Navigation Services (ANS) Policy & Planning Division.

Works near Communications, Navigation and Landing and Surveillance Aids

27 CAAS ATE Division has been consulted and has concurred with the works to be carried out in the vicinity of ATE facilities (e.g. HF Stations & Antennae, Multilateration System Sensors (MLAT), Instrument Landing System) and its corresponding critical and/or sensitive areas. (Refer to AOS, Section F)

Hazard Identification and Risk Assessment

28 The approved Risk Assessment* has been submitted. (Refer to AOS, Section J)

Works affecting Other Airport Systems

29 Relevant stakeholders have been consulted and have concurred with the works. (E.g. Airfield lighting, CCTV, iFerret, drainage, fire hydrant, ADGS, fuel system & M&E systems etc.)

Please state the type of system and name of officer whom you have liaised with.

Declaration

This is to certify that all the above checklist requirements, where applicable, are fulfilled. All approved documents are duly appended in this submission.

Submitted by (Project Officer):

Name: _____

Designation: _____

Organisation: _____

Signature: _____

Date: _____

**Airside Work Permit
(Airfield)**

Appendix 2
to Annex A

Project Title: _____

Layout of Work Area (to attach drawings if the space below is insufficient)

Please provide layout(s) showing location of work area, staging area (if any) and demarcation, with relevant dimensions. Any distance to operational areas (e.g. runway, ILS critical and sensitive areas, taxiway, taxilane, aircraft stand, roadway etc.) should be clearly indicated. For works within closed aircraft movement areas, the layout is to depict the placement of closure markers and associated markings, with relevant dimensions to adjacent operational areas.

Scope of Works: _____

Period of Works:
(Requested) _____ to _____

Date (DD/MM/YY) &
Time (HH:MM)

Date (DD/MM/YY) &
Time (HH:MM)

Daily Working Hours: _____ to _____
(HH:MM) (HH:MM)

Remarks: _____

I/We hereby apply for a permit to commence airside works as stipulated in the above location and undertake to comply with the requirements as in the appended checklist.

In the event that works are completed before the authorised end date, I/We will update Airside Development & Baggage (Airside Works team) at the earliest opportunity.

<u>Requested by (Consultant/Contractor):</u>	<u>Supported by (Project Officer):</u>
Name: _____	Name: _____
Designation: _____	Designation: _____
Organisation: _____	Division: _____
Contact No. (H/P): _____	Contact No. (H/P): _____
Signature/Date: _____	Signature/Date: _____

Approved by Airside Development & Baggage (Airside Works team)/CAG: **(For Official Use only)**

Permit Number: AWP / /

Name: _____	Signature: _____
Designation: _____	Date: _____

Remarks: _____

Supplementary Document for Appendix 1 to Annex A

"How-to-complete-AWP" Guide

This guide was designed as a reference material to assist Project Officer in completing the AWP (Airfield) Checklist (i.e. Appendix 1 to Annex A). This guide does not replace any of the manuals that document the requirements (e.g. AOS).

<u>S/N</u>	<u>Description</u>	<u>Status (✓ if completed, else N.A.)</u>	<u>Actions to be taken by Project Officer</u>
<u>Airport Operational & Safety (AOS) Requirements</u>			
1	The Work Party has obtained the latest copy of the AOS requirements; has read and is able to comply with the requirements.	<input type="checkbox"/>	This is a mandatory requirement. It must be a 'tick'; 'NA' is not acceptable.
<u>Works on Security Gates, Fences or Related Facilities</u>			
2	For works on the inner perimeter fencing of the airport, the application* has been approved by E&D/CAG and AVSEC/CAG. (Refer to AOS, Section A)	<input type="checkbox"/>	'Tick' if: E&D and Avsec have approved works on inner perimeter fencing ----- 'NA' if: otherwise
3	The erection of new security fence, door, gate or barrier has been completed and accepted by CAG and APD before works affecting the existing security fence, door, gate or barrier is allowed to commence. (Refer to AOS, Section A)	<input type="checkbox"/>	'Tick' if: CAG and APD has accepted the completed erection of new security fence, door, gate or barrier, before works affecting existing security fence, door, gate or barrier commenced ----- 'NA' if: otherwise
4	AVSEC/CAG and APD have been consulted on works near or affecting airport security infrastructure. (Refer to AOS, Section A)	<input type="checkbox"/>	'Tick' if: Avsec and APD have been consulted for 1. works on or affecting ANY airport security infrastructure; or 2. works to be carried out within 3m of airport fences; or 3. works to be carried out between inner and outer fence ----- 'NA' if: otherwise
<u>Airport Fire Safety Requirements</u>			
5	The Work Party is able to comply with the airport fire safety requirements as stipulated in the CAG Fire Safety Manual and also the regulations and safety practices of the SCDF. (Refer to AOS, Section B)	<input type="checkbox"/>	This is a mandatory requirement. It must be a 'tick'; 'NA' is not acceptable.
<u>Hot Works</u>			
6	The Hot Work Permit* has been approved by AES/CAG. (Refer to AOS, Section B)	<input type="checkbox"/>	'Tick' if: AES has approved hot works ----- 'NA' if: otherwise

Works requiring Isolation of Fire Alarm System

- 7 Isolation of Fire Alarm System* has been approved by AES/CAG. (Refer to AOS, Section B) 'Tick' if: AES has approved isolation of fire alarm system

'NA' if: otherwise

Airport Safety Training

- 8 The Work Party's personnel (supervisory level) have attended the Airport Operational and Safety (AOS) briefing and test. (Refer to AOS, Section C) This is a **mandatory** requirement. It must be a 'tick'; 'NA' is not acceptable.

Work Programme

- 9 The work proposal (e.g. Method Statement, design, demarcation layout, type of barricade used etc.) and detailed daily programme for the works have been approved by the Project Officer. (Refer to AOS, Section C) This is a **mandatory** requirement. It must be a 'tick'; 'NA' is not acceptable.

- 10 For works affecting/impacting any aircraft manoeuvring areas, the Project Officer is satisfied that the Work Party's Standard Operating Procedures (SOPs) comply with CAG's requirements and procedures, as well as the MOAS. (Refer to AOS, Section C) 'Tick' if: satisfied with Work Party's SOPs when works are carried out (regardless of the aircraft manoeuvring areas being operational or closed) on
1. runway or within the runway strip;
or
2. taxiway or within the taxiway strip;
or
3. military taxiway or within the military taxiway strip

'NA' if: no works on the runway/runway strip/taxiway/taxiway strip/military taxiway/ military taxiway strip

- 11 For works within another project's work boundary, the Project Officer has sought concurrence to co-exist and ensure that coordination between the two project teams has been established. 'Tick' if:
1. co-existing has been agreed; and
2. coordination has been established for the proposed works to be carried out within another project team's work boundary (i.e. at the same location)

Please state the name of Project Officer whom you have liaised with.

'NA' if: there is no on-going work at the same location

- 12 For works affecting tenanted (e.g. parking lots, EPA) and/or operational spaces (e.g. offsite ESA, Evacuation Assembly Area, access route to critical installations), the Project Officer has coordinated with the respective stakeholders to co-exist and if necessary, alternative arrangements have been 'Tick' if: relevant stakeholders have been consulted for
1. works affecting any tenanted and/or operational spaces
2. alternative arrangements (as advised) have been made

made to address the stakeholder's concerns.

'NA' if: otherwise

Note: critical installations include, but are not limited to, AFLCC, GP building, LLZ building, MM hut, Fire Stations, VIP complex etc.

- | | | | |
|---|---|--------------------------|---|
| 13 | Facilities Management/CAG has been consulted and concurred with the works affecting the external façade of the terminal building. | <input type="checkbox"/> | <p>'Tick' if: FM has concurred the works to be carried out on the external façade of the terminal building, including bus bays, parking lots, roadways (except underpass)</p> <hr/> <p>'NA' if: work area does not encroach into the abovementioned</p> |
| 14 | For works within RSAF's operational areas (West of Runway 02L/20R or East of Runway 02R/20L), the RSAF has approved the work programme to be carried out. (Refer to AOS, Section C) | <input type="checkbox"/> | <p>'Tick' if: RSAF has approved works to be carried out within RSAF's operational areas (West of Runway 02L/20R or East of Runway 02R/20L)</p> <hr/> <p>'NA' if: otherwise</p> |
| <u>Works Affecting Active Roadway or Pedestrian Foot Path</u> | | | |
| 15 | Prior to the commencement of works, the Work Party has submitted a detailed proposal on the plans to carry out the works, including all the necessary safety and traffic marshalling measures to the Project Officer for evaluation and approval. (Refer to AOS, Section C) | <input type="checkbox"/> | <p>'Tick' if: Project Officer has evaluated and approved on safety and traffic marshalling measures for works affecting active roadway and/or pedestrian foot path</p> <hr/> <p>'NA' if: works does not affect active roadway and/or pedestrian foot path</p> |
| 16 | Airside Management/CAG has been consulted on any potential impact to safety and has concurred with the works on/affecting active roadway or pedestrian foot path. | <input type="checkbox"/> | <p>'Tick' if: Airside Management has concurred the works on/affecting active roadway and/or pedestrian foot path</p> <hr/> <p>'NA' if: works does not affect active roadway and/or pedestrian foot path</p> |
| 17 | Airside Ops/CAG has been consulted on any potential impact to operations and has concurred with the works on/affecting active roadway or pedestrian foot path. | <input type="checkbox"/> | <p>'Tick' if: Airside Ops has concurred the works on/affecting active roadway</p> <hr/> <p>'NA' if: works does not affect active roadway</p> |
| 18 | The request for closure of roadway* has been approved by Airside Ops/CAG. | <input type="checkbox"/> | <p>'Tick' if: Airside Ops has approved closure of roadway</p> <hr/> <p>'NA' if: works does not affect active roadway</p> |

Closure of Airside Facilities

19 The request for closure of aircraft stand(s)* has been approved by Airside Ops/CAG.

Please state the reference number of AIP Supplement (if required).

'Tick' if: Airside Ops has approved
1. any request for closure of aircraft stand(s) for works to be carried out; or
2. layover at aircraft stand(s) has been assigned

'NA' if: closure of aircraft stand is not required

20 The request for closure of aircraft manoeuvring area(s)* has been approved by Airside Ops/CAG and Changi Tower/ CAAS and the associated NOTAM(s)* issued.

Please state the reference number of NOTAM/AIP Supplement.

'Tick' if: works requiring closure of taxiway(s), taxilane(s) and/or runway has been approved

'NA' if: closure of taxiway, taxilane and/or runway is not required

21 For work activities which coincide with runway closure period, arrangement has been made for the Work Party to report to Runway Entry/Exit Point (REP).

'Tick' if: work party is reporting to Runway Entry/Exit Point (REP)

'NA' if: otherwise

Aerodrome Reporting

22 The Project Officer has read and understood the requirements listed in Changi Aerodrome Manual (CAM) Section 4.1 Aerodrome Reporting. Project Officer has consulted and obtained confirmation from Airside Ops on the requirement (current/impending/non-issuance) of AIP Supplement/AIP Amendment/AIC for the purpose of the works.

This is a **mandatory** requirement. It must be a 'tick'; 'NA' is not acceptable.

Trial Hole Works

23 The application for permit to carry out trial hole works* has been approved. (Refer to AOS, Section C)

'Tick' if: works requiring trial hole works has been approved

'NA' if: otherwise

Earthworks

24 The application for permit to carry out earthworks* has been approved. (Refer to AOS, Section C)

'Tick' if: works requiring earthworks has been approved

'NA' if: otherwise

Use of Mobile Machinery, Tall Construction Machinery/Plant, Temporary Structures, Stockpile

25 The application for the deployment of mobile machineries, tall construction machineries/plant, temporary structures, stockpile* has been approved by CAAS Air Navigation Services (ANS) Policy & Planning Division. (Refer to AOS, Section D)

'Tick' if: CAAS ANSPP has approved for works requiring the deployment of mobile machineries, tall construction machineries/plant, temporary structures, stockpile

'NA' if: otherwise

26 If there is a requirement to demobilise machinery for operational reasons to another area within the airside (designated as staging area), that staging area* has been approved by CAAS Air Navigation Services (ANS) Policy & Planning Division

'Tick' if: CAAS ANSPP has approved the staging area

'NA' if: otherwise

Works near Communications, Navigation, Landing and Surveillance Aids

27 CAAS ATE Division has been consulted and has concurred with the works to be carried out in the vicinity of ATE facilities (e.g. HF Stations & Antennae, Multilateration System Sensors (MLAT), Instrument Landing System) and its corresponding critical and/or sensitive areas. (Refer to AOS, Section F)

'Tick' if: CAAS ATE has been consulted for

1. works to be carried out within the GP/LLZ critical and sensitive areas; or
2. works to be carried out within 15m radius of all ANS equipment

'NA' if: works are carried out outside the above stated areas

Hazard Identification and Risk Assessment

28 The approved Risk Assessment* has been submitted. (Refer to AOS, Section J)

This is a **mandatory** requirement. It must be a 'tick'; 'NA' is not acceptable.

Works affecting Other Airport Systems

29 Relevant stakeholders have been consulted and have concurred with the works. (E.g. Airfield lighting, CCTV, iFerret, drainage, fire hydrant, ADGS, fuel system & M&E systems etc.)

'Tick' if: system owner and user of the affected system have concurred the works

'NA' if: no other airport system is affected

Please state the type of system and name of officer whom you have liaised with.