

OPERATIONAL RISK REGISTER (ORR)

Airport Authority Hong Kong Business Continuity Manual – ORR

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8.0 AAHK Operational Risk Register (ORR) Overview & Ownership

- 1. The ORR Review is integrated into the BCM review in order to ensure alignment between the two processes.
 - a. A series of roadshow is organized by SSBC-BCP as refresher training for involved personnel.
 - b. After the roadshow, involved personnel are to review their relevant BCM sections as well as their respective departmental contingency plans in preparation to conduct the ORR Review.
 - c. Results from the ORR Review, as well as relevant lessons learned, are to be incorporated back into relevant BCM sections as well as respective departmental contingency plans.

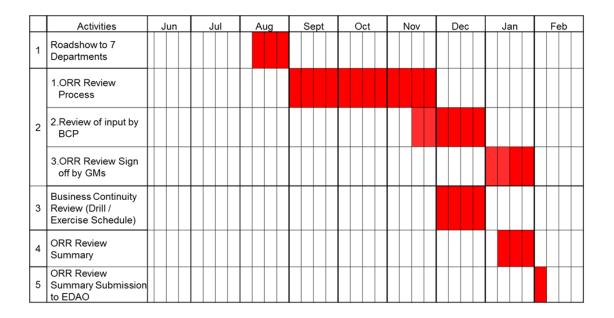
2. ORR Review Timeline

a. There will be a full and a streamlined ORR review run in alternative years starting from 2017, the streamlined ORR review would be adopted with simplified Business Continuity Review (BCR) process. Unlike in full ORR review which requires the completion of three sections in BCR, only the "Business Deliverables Annual Exercise and Drill Schedule Summary Table" is required in the streamlined review. The streamlined ORR review exercise would be commenced in August whereas the full review would be in June as illustrated in below tables.

b. Full ORR Review timeline

| | Activities | Jun | Jul | Aug | Sept | Oct | Nov | Dec | Jan | Feb |
|---|--|------|-----|-----|------|-----|------|-----|-----|-----|
| 1 | Roadshow to 7 Departments | Juli | Jui | Aug | Зерг | | INOV | Dec | Jan | Teb |
| 2 | Business Continuity Review | | | | | | | | | |
| | 1.ORR Review Process by 7 Depts | | | | | | | | | |
| 3 | 2.ORR Inputs Review by BCP | | | | | | | | | |
| | 3.ORR Review Sign Off by GMs | | | | | | | | | |
| 4 | Final Business Continuity Review with Exercise Dates | | | | | | | | | |
| 5 | 1.ORR Review Summary | | | | | | | | | |
| | 2. ORR Summary Submission to EDAO | | | | | | | | | |

c. Streamlined ORR Review



3. ORR Review Timeline at Departmental Level:

| | Departmental Operational Risk Register Review Timeline | | | | | | | | | | | | |
|---|---|---|-------|------|---|---|-------|------|---|---------------|--|--|--|
| | Activity | V | /eeks | 1 to | 4 | V | /eeks | 5 to | 8 | Weeks 9 to 12 | | | |
| 1 | Department ORR Coordinator initiates review | | | | | | | | | | | | |
| 2 | Meets with individual ORR risk owner to complete the ORR Review | | | | | | | | | | | | |
| 3 | Departmental Coordinator will collate the results and submit to the department head for endorsement | | | | | | | | | | | | |
| 4 | Signing of finalized review by : a. Each process owner b. Departmental representative c. Department head d. SSBC representative | | | | | | | | | | | | |
| 5 | Final results are documented and recorded in the departmental shared drive | | | | | | | | | | | | |
| 6 | Results are consolidated by SSBC and updated to ED-AO | | | | | | | | | | | | |

4. The questions within the ORR Review are set by SSBC and are periodically updated to reflect applicable industry standards and best practices within the risk and business continuity management industry.

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5. ORR Review Questionnaire (Example)

ORR Review Questionnaire

1.0 Identified risks of your Department and their respective risk levels area listed in the table below

| Name of Department: | |
|--|--|
| Risk Review Period [Current calendar year] | |

| s/n | ORR Risk No. | Departmental Risks | Ris | k Level (A | / C) | Owner (AGM / Sr Manager) | |
|-----|-----------------|--------------------|----------------------|---------------------|----------------------|-----------------------------|--|
| | (Risk XX) | | Previous | Previous Record | | d in 2016 | |
| | | | Before Mitigation | After Mitigation | Before Mitigation | After Mitigation | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |

2.0 Endorsement by Departmental Representative and General Manager

| Departmental Representative | Date: |
|------------------------------|-------|
| | |
| | |
| (Name) | - |
| Departmental General Manager | Date: |
| | |
| | |
| (Name) | |

3.0 When completed, use this page as cover sheet for all surveys underneath.

6. Operational Risk Register (ORR) Ownership

| Risk no. | Identified Risks | Departmental Owner | Risk Owner |
|-------------|---|-----------------------|-------------------------------------|
| 1. | Aircraft Accident | AD | AGM - S&SD |
| 2. | Infectious disease outbreak within HKG | SSBC | AGM - BCP |
| 3. | Suspected infectious disease passenger(s) onboard inbound aircraft | SSBC | AGM - BCP |
| 4. | Suspected infectious disease passenger(s) onboard inbound cross border ferry / Bonded Bus | SSBC | AGM - BCP |
| 5. | Unlawful interference to aircraft & airport facilities | SSBC | AGM - Security |
| 6. | Unlawful seizure of aircraft | SSBC | AGM - Security |
| 7. | BW against aircraft | SSBC | AGM - Security |
| 8. | BW in buildings | SSBC | AGM - Security |
| 9. | Major security incident | SSBC | AGM - Security |
| 10. | CBRN | SSBC | AGM - Security |
| 11. | Failure to Deliver BSM to BHS | ABD | AGM - SPOR |
| 12. | Sortation Allocation Computer, SAC failure | ABD | AGM - SPOR |
| 13. | BHS Supervisory & Control System Failure | ABD | AGM - SPOR |
| 14. | Reclaim Belt Allocation System (RBAS) | ABD | AGM - SPOR |
| 15. | Baggage Conveyance System Failure | ABD | AGM - SPOR |
| 16. | Flight Information Display System | ABD | AGM - SPOR |
| 17. | Crowd Management | TOD / LD | AGM – TOGF / AGM - LS |
| 18. | Terminal Evacuation & Recovery | TOD / LD | AGM – TOGF / AGM - LS |
| 19. | Adverse weather - Terminal Disruptions | TOD / LD | AGM – TOGF / AGM - LS |
| 20. | Adverse weather - FDSMS | TOD | AGM - TOGF |
| 21. | Adverse weather - Prolonged Red Lightning Warning | AD | AGM - Airfield |
| 22. | Adverse weather - Landside Contingencies | LD | AGM – LS, AGM - LIM |
| 23. | Adverse weather – SkyPier Terminal Contingencies | LD | AGM – IC |
| 24. | Adverse weather - Baggage Handling | ABD | AGM – SPOR |
| 25. | Adverse weather - Low Visibility Operations | AD | AGM – Airfield |
| 26. | No Land Link | LD / ALD | AGM – LT&L, AGM – IC / AGM – ALD |
| 27. | Landside Transport Emergencies | LD | AGM - LT&L |

| | T. | T | |
|-----|--|----------|--|
| 28. | Interrupted Land Transportation | LD | AGM - LT&L |
| 29. | Into Plane Refuelling System | AD | AGM - Airfield |
| 30. | Airfield Ground Lighting System Break Down | AD | AGM – Airfield |
| 31. | Airfield Runway System Break Down | AD | AGM – Airfield |
| 32. | АРМ | ABD | AGM – APM Operations |
| 33. | Fixed Ground Power Break Down | AD | AGM – Airfield |
| 34. | General Building Management System (GBMS) & Airfield SCADA & HV SCADA | TSI | SM – Electrical & Energy |
| 35. | Power Distribution System & Emergency Power System | TSI | SM – Electrical & Energy |
| 36. | Apron Flood Lights Break Down | AD | AGM – Airfield |
| 37. | a. Seawater Provision b. Chiller c. Mechanical Building Management System (MBMS) | TSI | SM – Mechanical & Utilities |
| 38. | Airbridge Break Down | AD | AGM – Airfield |
| 39. | Aircraft Docking Guidance System Break Down | AD | AGM – Airfield |
| 40. | Lift & Escalators | TOD / LD | AGM – EM / AGM – LT&L |
| 41. | Traffic Control & Surveillance / Car Park Vehicle Access Control System | LD | AGM – LS, AGM - LIM |
| 42. | Trunked Mobile Radio | TSS | SM – Airfield & Electronic Systems |
| 43. | a. Water System b. Sewage System | TSI | SM – Buildings & Architecture SM – Mechanical & Utilities |
| 44. | Pre-Conditioned Air System Break Down | AD | AGM – Airfield |
| 45. | RHO on Strike | AD | AGM – S&SD |
| 46. | Fire Safety Management | SSBC | AGM - Safety |
| 47 | Cargo Disruptions | ALD | AGM – ALD |
| 48 | Catering Service Interruptions Due to System Breakdown | LPAF | AGM - PPAF |
| 49 | Inflight Catering Food Poisoning on Passenger Food | LPAF | AGM - PPAF |
| 50 | Disruption of Fuel Supply to HKIA for the Permanent Aviation Fuel Facility | LPAF | AGM - PPAF |
| 51 | Disruption of Fuel Supply for the On- Airport Fuel System | LPAF | AGM - PPAF |
| 52 | UAS Threat | AD | AGM - Airfield |
| | | | |

9.0 AAHK Operational Risk Register

9.1 General

- 1. Identified significant risks are tracked and documented in an Operational Risk Register.
- 2. The register is reviewed once every year by GM SSBC in conjunction with other GM's of involved departments.
- 3. A formal review is conducted on each risk once a year during the Annual ORR Review.
- 4. At the same time, many risks are reviewed and updated on an annual basis when respective business continuity plans are drilled and exercises.
- 5. Risks are assessed by way of a simple yet proven Likelihood versus Consequences Matrix.
 - a. High Likelihood corresponding with high Consequences are categorized as Severity "A".
 - b. Lower Likelihood corresponding with lower Consequences are gradated down to Severity "C".
- 6. Category "A" risks must be addressed via the risk mitigation initiatives of risk transfer, risk avoidance and risk reduction to reduce the risks down to at least Severity "B2".
- 7. High valued risks are prioritized and addressed first.
- 8. Once these prioritized high value risks are managed, other risks are worked on.
- 9. It is the aim of the AAHK to reduce all risks down to Severity "B2" or lower.

9.2. Operational Risk Register Matrix

- 1. Below is the Risk Assessment Matrix showing different categories of risks.
- 2. The priority of work to be done is to immediately start from those risks categorized as Severity "A".
- 3. Next priority are those risks in the Severity "B1" category.
- 4. Eventually, as time progresses, Severity "B2" risks are to be lowered to Severity "C" category, if the efforts expended are commensurate with benefits gained.

| Ri: Asses | | Consequences (1 = Lowest; 5 = Highest) | | | | | | | | |
|------------------------------|------|---|-----|----|----|----|--|--|--|--|
| Mat | trix | 1 | 1 2 | | 4 | 5 | | | | |
| | 1 | C | С | С | C | B2 | | | | |
| d Highest) | 2 | С | С | С | B2 | B1 | | | | |
| ihood ; 5 = Hi | 3 | С | С | B2 | B1 | Α | | | | |
| Likelihood Lowest; 5 = Hi | 4 | С | B2 | B1 | Α | Α | | | | |
| (1 = L | 5 | B2 | B1 | А | А | Α | | | | |

| | Risk Assessment Categories |
|------------------|---|
| Severity "A" | Unacceptable risks to be lowered by risk transference, avoidance and reduction initiatives with highest priority |
| Severity "B1" | Unacceptable risks to be lowered by risk transference, avoidance and reduction initiatives next in priority to Severity "A" risks |
| Severity "B2" | Acceptable risks if appropriate emergency response / business continuity plans are in place with staff trained to the plans and plans exercised on an annual basis |
| Severity "C" | Acceptable risks if appropriate emergency response / business continuity plans are in place with staff trained to the plans and plans exercised on a biennial basis |

9.3. Operational Risk Register Table

| lde | entified Risks | Risk Category | Risk Category After Mitigation Measures | Preventive & Maintenance Plans (Y/N) | System Fallback & Disaster Recovery Plans (Y/N) | Business Continuity Plans (Y/N) | Business Recovery Plans (Y/N) | Reference Plans/ Related Processes & Owner | Mitigation Measures |
|-----|------------------------------------|------------------------------|---|--|---|---------------------------------------|--|--|---|
| 1 | Aircraft Accident | B1 (L=2,C=5) | B2 (L=2,C=4) | N/A | Y | Y | Y | a. EPM Volume 1 Parts 1 to 6, Aircraft Emergencies | i. Manual updated quarterly ii. Crash & rescue exercise once every 2 years iii. Emergency response workshops x16/yr |
| | | | | | | | | b. AEC Operations Manual | i. Manual updated yearly ii. AEC workshops x8/yr |
| | | | | | | | | C. TLPM/073, Airside Crowd Management | i. Drill on yearly basis ii. Workshops x4/yr |
| | | | | | | | | d. TLPM/081, Landside Crowd Management | i. Drill on yearly basis ii. Workshops x4/yr |
| | | | | | | | | e. TLPM/030, Media Handling | , |
| | | | | | | | | f. TLPM/033, Passenger Care Team | i. Drills x4/yr ii. Workshop for newly hired staff iii. On-line self- learning module on Intranet |
| | | | | | | | | g. TLPM/043, Stranded Transfer Passenger | i. Drill on yearly basis ii. Workshops x4/yr |
| | | | | | | | | h. EPM Part 16 Flight Rescheduling Control System (Airfield) | i. Manual updated as per need basis ii. Drill X 1 yr (before typhoon season) |
| | | | | | | | | i. AOM Part D Section 2 Para 4.5 Mitigation Parking | i. Manual updated as per need basis |
| | | | | | | | | j. AOM Part D Section 4 Para 7, Aircraft Tractor Deployment under CTOT Issuance | i. Manual updated as per need basis |
| 2 | Infectious disease outbreak | A ¹⁹ (L=5,C=4) | B2 (L=4,C=2) | Y | Y | Y | Y | a. EPM Volume 3 Part 13, Public Health | i. Drill x1/yr ii. Workshops x4/yr iii. Manual reviewed twice a year |
| | within HKG | | | | | | | b. TLPM/036 Quarantine Handling | i. Drills x2/yr |
| | | | | | | | | c. BCM BCP-G1 Public Health & Pandemics | i. Manual updated twice a year |
| 3 | Suspected infectious disease | A ¹⁹ (L=5,C=4) | B2 (L=4,C=2) | Y | Y | Y | Y | a. EPM Volume 3 Part 13, Public Health | i. Drill x1/yr ii. Workshops x4/yr iii. Manual reviewed twice a year |
| | passenger(s) onboard inbound | | | | | | | b. TLPM/036, Quarantine Handling | i. Drill x1/yr |
| | aircraft | | | | | | | c. BCM BCP-G1 Public Health & Pandemics | i. Manual updated twice a year |

| 4 | Suspected infectious disease | A ¹⁹ (L=5,C=3) | B2 (L=4,C=2) | Y | Y | Y | Y | a. EPM Volume 3 Part 13, Public Health | i. Drill x1/yr ii. Workshops x4/yr iii. Manual reviewed twice a year | | |
|----|--|---------------------------|------------------------------|----------------------|---|---|---|--|--|--------------|----------------------|
| | passenger(s) onboard inbound cross | | | | | | | b. TLPM/036, Quarantine Handling | i. Drill x1/yr | | |
| | border ferry / Bonded Bus | | | | | | | c. BCM BCP-G1 Public Health & Pandemics | i. Manual updated twice a year | | |
| 5 | Unlawful | А | C ¹ | Υ | Υ | Y | Υ | a. HKIA Airport Security Program | | | |
| | interference to aircraft | (L=3, C=5) | (L=2,C=3) | | | | | b. EPM Volume 2 | i. Manual reviewed | | |
| | and airport | | | | | | | | Part 9C, Intrusion c. AVSECO Security | twice a year | |
| | facilities | | | | | | | Procedures Manual | | | |
| | | | | | | | | d. BCM BCP-F1 ACS | i. Manual updated twice a year | | |
| 6 | Unlawful seizure of | A (L=3, C=5) | C ² (L=2,C=3) | Υ | Y | Y | Y | a. HKIA Airport Security | | | |
| | aircraft | (2=0, 0=0) | (2-2,0-0) | | | | | Programme b. AVSECO Security | | | |
| | | | | Procedures Manual | | | | | | | |
| | | | | | | | | c. EPM Volume 2 Part 9 . Unlawful | i. Manual reviewed | | |
| | | | | | | | | Seizure of Aircraft | twice a year | | |
| 7 | BW against | A (1 0 0 5) | C ¹² (L=2,C=3) | Υ | Y | Υ | Υ | a. HKIA Airport Security | | | |
| | aircraft | (L=3,C=5) | (L=2,C=3) | | | | | Programme b. AVSECO Security | | | |
| | | | | | | | | | Procedures | | |
| | | | | | | | | Manual c. EPM Volume 2 | i. Manual reviewed | | |
| | | | | | | | | Part 7, Bomb Warning Against | twice a year | | |
| | | | | | | | | Aircraft | | | |
| 8 | BW in | A (L=4,C=4) | C ¹³ (L=2,C=3) | Υ | Y | Υ | Y | Security | | | |
| | buildings | (2=1,0=1) | (L=2,0=0) | | | | | Programme b. AVSECO Security | | | |
| | | | | | | | | | | | Procedures Manual |
| | | | | | | | | c. EPM Volume 2 Part 8, Bomb | i. Manual reviewed | | |
| | | | | | | | | Warning in | twice a year | | |
| 9 | Major | A ¹⁵ | C ¹⁴ | Y | Y | Y | Y | Buildings a. HKIA Airport | | | |
| 9 | Major security | (L=4,C=4) | (L=2,C=3) | Ţ | Ť | Ť | Ť | Security Programme | | | |
| | incident (Landside | | | | | | | b. AVSECO Security | | | |
| | Security & | | | | | | | Procedures Manual | | | |
| | AVSEC Risk Management | | | | | | | c. EPM Volume 2 Part 9A, Major | i. Manual reviewed twice a year | | |
| | Plan) | | | | | | | Security Incident Police | | | |
| | | | | | | | | d. BCM BCP-F3, Landside Security | i. Manual updated twice a year | | |
| | | | | | | | | e. BCM BCP-F2, Elevated Security Threat Response | i. Manual updated twice a year | | |
| 10 | CBRN | B1 (L=3,C=4) | B2 (L=3,C=3) | Y | Y | Υ | Y | a. HKIA Airport Security | | | |
| | | (= 0,0=1) | (= 0,0-0) | | | | | b. AVSECO Security Procedures | | | |
| | | | | | | | | Manual c. EPM Volume 2 | i. Drills x2/yr | | |
| | | | | | | | | Part 9B, CBRN Incident | ii. Workshops x4/yr iii. Manual reviewed twice a year | | |
| | | | | | | | | d. BCM BCP-F4, Suspected CBRN | i. Manual updated twice a year | | |
| | | | | | | | | Contaminated Arrival Aircraft | , | | |
| | | | | | | | | Management | | | |
| | | | | | l | | | Procedures | | | |

| _ | | | | | | | | | | | | |
|----------|----|-------------------------------------|----------------------|-----------------|---|---|---|-----|----|---------------------------------------|-----------|--|
| | 11 | Failure to Deliver BSM to BHS | B1 (L=3,C=4) | B2 (L=3,C=3) | Υ | Y | Y | Y | a. | BCM BCP-C1, BHS | i. ii. | Manual updated on a need basis Drills on yearly basis |
| | | | | | | | | | b. | BD/PM001 | i. | Manual updated |
| | | | | | | | | | | Contingency Procedure for BHS | | on a need basis |
| | | | | | | | | | | Failure to Deliver BSM to BHS (BD) | ii. | Drills on yearly basis |
| | | | | | | | | | C. | BMS Operation | i. | Manual updated |
| | | | | | | | | | | Procedure Manual | ii. | on a need basis Practice almost |
| | | | | | | | | | | | "- | on daily basis |
| | 12 | Sortation | B1 | B2 | Υ | Υ | Υ | Υ | a. | BD/PM002 | i. | Manual updated |
| | | Allocation | (L=3,C=4) | (L=3,C=3) | | | | | | Contingency Procedure for BHS | ii. | on a need basis Drills on yearly |
| | | Computer, | | | | | | | | - SAC Failure | | basis |
| | | SAC failure | | | | | | | | Contingency | | |
| | | | | | | | | | b. | Procedure (BD) SAC operation | - | |
| | | | | | | | | | υ. | procedure manual | | |
| | | | | | | | | | C. | | | |
| | | | | | | | | | | contingency procedure | | |
| - | 13 | BHS | B1 | B2 | Υ | Y | Υ | Υ | a. | BD/PM003 | i. | Manual updated |
| | 13 | Supervisory & | (L=3,C=4) | (L=3,C=3) | • | ! | ' | · · | | Contingency | :: | on a need basis |
| | | Control | (= 0,0 1) | (= 0,0 0) | | | | | | Procedure for BHS – MICS Failure | ii. | Drills on yearly basis |
| | | System | | | | | | | | Contingency | | |
| | | Failure 22 | | | | | | | b. | Procedure (BD) BCM BCP-C1, | | |
| | | | | | | | | | D. | BHS | | |
| | | | | | | | | | C. | MICS operation | | |
| | | | | | | | | | a. | procedure manual RBAS Operation | i. | Manual updated |
| | 14 | Reclaim Belt | C (1 0 0 0) | C (1 0 0 0) | Υ | Y | Υ | Υ | a. | Procedure | ١. | on a need basis |
| 1 | | Allocation System | (L=2,C=3) | (L=2,C=2) | | | | | b. | Contingency | | Drills on yearly |
| | | (RBAS) ³ | | | | | | | | procedure for | | basis |
| - | | (-/ | | | | | | | | RBAS failure | | Manualinadatad |
| | 15 | Baggage | B1 | B2 | Υ | Y | Υ | Υ | a. | BD/PM004 Contingency | i. | Manual updated on a need basis |
| | | Conveyance | (L=3,C=4) | (L=3,C=3) | | | | | | Procedure for BHS | ii. | |
| | | System Failure ⁴ & 22 | | | | | | | | Direct Feed System | | |
| <u>l</u> | | | | | | | | | | Contingency | | |
| 1 | | | | | | | | | b. | Procedure (BD) BCM BCP-C1, | i. | Manual updated |
| | | | | | | | | | D. | BHS | '- | twice a year |
| | 16 | Flight | B1 | B2 | Y | Υ | Υ | Υ | a. | BCM BCP-E2, | i. | Drills x2/yr |
| | | Information | (L=3,C=4) | (L=3,C=3) | | | | | | FIDS | ii. | Manual updated twice a year |
| | | Display System (FIDS) | | | | | | | b. | TLPM/082, FIDS | | • |
| | | Cyclem (i i.2 c) | | | | | | | | Contingency Procedures During | | |
| | | | | | | | | | | Flight Disruptions | | |
| | | | | | | | | | C. | TLPM/064 FIDS | | |
| | | | | | | | | | | Contingency Procedure For | | |
| Ĺ | | | | | | | | | | System Failure | | |
| | 17 | Crowd | B1 ^{16, 17} | B2 | Υ | Y | Υ | Υ | a. | TLPM/073, Airside Crowd | i. | Drill on yearly basis |
| | | Management | (L=2,C=5) | (L=2,C=4) | | | | | | Management | ii. | Workshops x4/yr |
| | | | | | | | | | b. | TLPM/081, | i. | Drill on yearly |
| | | | | | | | | | | Landside Crowd Management | ii. | basis Workshops x4/yr |
| | | | | | | | | | C. | TLPM/033, | i. | Drills x4/yr |
| | | | | | | | | | | Passenger Care Team | ii. | Workshop for newly hired staff |
| | | | | | | | | | | . Julii | iii. | On-line self- |
| | | | | | | | | | | | | learning module |
| | | | | | | | | | d. | TLPM/042, Sit-in, | 1 | on Intranet |
| | | | | | | | | | | Protest, Strike, | | |
| | | | | | | | | | | Demonstration Handling (Indoors) | | |
| | | | | | | | | | e. | BCM BCP-B2, | i. | Manual updated |
| | | | | | | | | | | Crowd | | twice a year |
| | | | | | | | | | f. | Management TLPM 086 SkyPier | i. | Drill on yearly |
| | | | | | | | | | | | Terminal | 1 |
| | | | | | | | | | | Operations Procedure, Part 1 | | |
| L | | | | | | | | | | i rocedure, Part I | 1 | |

| 18 | Terminal Evacuation & Recovery | B2 (L=1,C=5) | C (L=1,C=4) | Y | Y | Y | Y | a. BCM BCP-B5, Terminal Evacuation and Recovery | i. Drill x1/yr ii. Workshop x1/yr iii. Manual updated twice a year |
|----|---|------------------|------------------|-----|---|---|---|---|--|
| | | | | | | | | b. TLPM 086, SkyPier Terminal Operations Procedure, Section 23 | i. Drill X 1/yr |
| | | | | | | | | c. TLPM010 Fire Alarm Handling Procedure | |
| 19 | Adverse | B1 | B2 | Υ | Υ | Υ | Y | Refer to Crowd Management | |
| | Weather - Terminal Disruptions | (L=2,C=5) | (L=2,C=4) | | | | | a. BCM BCP-B4, Major Airport Disruption Preparedness Planning b. BCM BCP-H4, Typhoon Preparation & Recovery | i. Manual updated twice a year |
| | | | | | | | | c. TLPM003 Adverse Weather Procedure | |
| 20 | Adverse Weather - FDSMS ²¹ | B1 (L=3,C=4) | B2 (L=3,C=3) | Υ | Υ | Y | Υ | a. BCM BCP-E2, Flight Information Display System | i. Manual updated twice a year |
| | T DSING | | | | | | | b. TLPM/082, FDSMS Contingency Procedures During Flight Disruptions and System Failure | |
| 21 | Adverse Weather - Prolonged Red Lightning Warning | B1 (L=3,C=4) | B2 (L=3,C=3) | N/A | Y | Y | Y | a. EPM Part 16 Flight Rescheduling Control System (Airfield) | Manual updated as per need basis Drill @ 1/yr (before typhoon season) |
| | waniiig | | | | | | | b. AOM Part D Section 2 Para 4.5, Mitigation Parking | i. Manual updated as per need basis |
| | | | | | | | | c. AOM Part D Section 4 Para 8, Aircraft Tractor Deployment under CTOT Issuance | i. Manual updated as per need basis |
| | | | | | | | | d. BCM BCP-A6, Flight Rescheduling Control System | i. Manual updated twice a year |
| | | | | | | | | e. BCM BCP-H2, Prolonged Red Lightning Warning | i. Manual updated twice a year |
| 22 | Adverse | B1 (L=3, C=4) | B2 (L=3, C=3) | Υ | Y | Υ | Υ | Refer to Landside Contingencies | |
| | Weather - Landside Contingencies | (L=3, C=4) | (L=3, C=3) | | | | | a. BCM BCP-B4, Major Airport Disruption Preparedness Planning | i. Manual updated twice a year |
| 23 | Adverse Weather - SkyPier Terminal Contingencies | B1 (L=3,C=4) | B2 (L=3,C=3) | Y | Y | Y | Y | a. TLPM 086, SkyPier Terminal Operations Procedure, Section 26 | i. Drill on yearly basis |
| 24 | Adverse Weather - Baggage Handling | B1 (L=3,C=4) | B2 (L=3,C=3) | Y | Y | Y | Y | a. BD/PM005 Contingency Procedure for BHS – Typhoon Contingency Handling (BD) | i. Manual updated on a need basis ii. Drills on yearly |
| | | | | | | | | b. BCM BCP-B4, Major Airport Disruption | i. Manual updated twice a year |

| | | | | | | | | Preparedness Planning |
|----|--|-------------------------------|------------------------------|-----|---|---|---|--|
| | | | | | | | | c. BCM BCP-C1, i. Manual updated twice a year |
| 25 | Adverse Weather - Low Visibility Operations | B1 (L=4, C=3) | C (L=4, C=1) | N/A | Y | Y | Y | a. AOM Part F : i. Drill once every 2 Operation Procedure During Low Visibility Conditions (Airfield) i. Drill once every 2 months ii. Manual updated as per need basis |
| 26 | No Land Link | B2 ²⁰ (L=1,C=5) | C ²⁰ (L=1,C=4) | N/A | Y | Y | Y | a. EPM Volume 3 i. Manual reviewed Part 14, Landside Transport Emergencies b. TLPM/032, No Land Link |
| | | | | | | | | Procedures c. BCM BCP-D1, No i. Manual updated |
| 27 | Landside Transport Emergencies | B1 (L=3,C=4) | B2 (L=3,C=3) | N/A | Y | Y | Y | Land Link twice a year a. TLPM/028, Landside Transport Emergencies |
| 28 | Interrupted Land Transportation | B1 (L=3,C=4) | B2 (L=3,C=3) | N/A | Y | Y | Y | a. TLPM/087, Taxi Emergency Procedures |
| 29 | Into Plane Refuelling System | B2 (L=1,C=5) | B2 (L=1,C=5) | Y | Y | Y | Y | a. BCM BCP-A8, i. Manual updated Aviation Fuel twice a year Services Disruption Plan |
| | | | | | | | | b. AOM Part E Section 5 Contingency as per need basis Procedures for Aviation Fuel Supply System (Airfield) |
| | | | | | | | | c. AOM Part D Section 2 Para 4.5, Mitigation Parking i. Manual updated as per need basis |
| | | | | | | | | d. EPM Part 16 Flight Rescheduling Control System (Airfield) i. Manual updated as per need basis ii. Drill X 1/yr (before typhoon season) |
| 30 | Airfield Ground Lighting System Break Down | B1 (L=2, C=5) | B2 (L=2,C=4) | Y | Y | Y | Y | a. Section 3, Fault Response Team Operation, Technical Systems Management Plan i. Manuals updated annually ii. Drill on yearly basis |
| | | | | | | | | Airfield Ground Lighting System Management Plan |
| | | | | | | | | c. BCM BCP-A3, i. Manual updated Airfield Ground Lighting system |
| | | | | | | | | d. EPM Part 16 Flight per need basis Rescheduling ii. Manual updated as per need basis ii. Drill X 1/yr (before typhoon season) (Airfield) |
| 31 | Airfield Runway System Break Down | B1 (L=2, C=5) | B2 (L=2,C=4) | Y | Y | Y | Y | a. Section 3, Fault Response Team Operation, Technical Systems Management Plan i. Manuals updated annually ii. Drill on yearly basis |
| | | | | | | | | b. BCM BCP-A4, i. Manual updated twice a year |
| | | | | | | | | c. EPM Part 16 Flight Rescheduling Control System (Airfield) i. Manual updated as per need basis ii. Drill X 1/yr (before typhoon season) |

| 32 | APM | B1 (L=3,C=4) | B2 (L=3,C=3) | Y | Y | Y | Y | a. Section 3, Fault Response Team Operation, Technical Systems Management Plan i. Manuals updated annually ii. Drill on yearly basis |
|----|---|------------------|-----------------|---|---|---|---|---|
| | | | | | | | | b. APM System Management Plan |
| | | | | | | | | c. TLPW/006, APM Operations and Emergency Procedure |
| | | | | | | | | d. TLPM/060, SkyPier Line APM Breakdown Procedure |
| | | | | | | | | e. BCM BCP-B1, Automated People Mover i. Manual updated twice a year |
| 33 | Fixed Ground Power Supply Break Down | B2 (L=4, C=2) | C (L=3,C=1) | Y | Y | Y | Y | a. Section 3, Fault Response Team Operation, Technical Systems Management Plan i. Manuals updated annually ii. Drill on yearly basis |
| | | | | | | | | b. Fixed Ground Power System Management Plan |
| | | | | | | | | a. AOM Part E, Section 3: Contingency Procedures for Fixed Ground Power Supply System (Airfield) i. Manuals updated as per need basis |
| | | | | | | | | b. BCM BCP-A5, Fixed Ground Power i. Manual updated twice a year |
| 34 | General Building Management System (GBMS) & | B2 (L=4,C=2) | C (L=3,C=1) | Y | Y | Y | Y | a. Section 3, Fault Response Team Operation, Technical Systems Management Plan i. Manuals updated annually ii. Drill on yearly basis |
| | Airfield SCADA & HV | | | | | | | b. GBMS & HV SCADA System Management Plan |
| | SCADA | | | | | | | c. BCM BCP-E3, i. Manual updated twice a year |
| 35 | a. Power Distribution System b. Emergency Power System | B1 (L=2,C=5) | B2 (L=2,C=4) | Y | Y | Y | Y | a. Section 3, Fault Response Team Operation, Technical Systems Management Plan b. High Voltage (HV) / |
| | | | | | | | | Low Voltage (LV) and Emergency Power Supply System Management Plan |
| | | | | | | | | c. BCM BCP-E4, Power Distribution |
| | | | | | | | | System. d. BCM BCP-E1, Emergency Power System |
| 36 | Apron Flood Lights Break Down | B2 (L=4,C=3) | C (L=2,C=1) | Y | Y | Y | Y | a. AOM Part E, Section 11 : Contingency Procedures for Apron Flood Lights Break Down (Airfield) i. Manuals updated as per need basis |
| 37 | a. Seawater Provision | B1 (L=2,C=5) | B2 (L=2,C=4) | Y | Y | Y | Y | a. Section 3, Fault Response Team Operation, Technical Systems i. Manuals updated annually ii. Drill on yearly basis |
| | | | | | | Ì | Ì | Management Plan |

| | | r | , | | | | - | | |
|----|--|-------------------------------|-----------------------------|---|---|---|---|--|--|
| | b. Chiller c.Mechanical | | | | | | | Seawater Supply System Management Plan Seawater Pumping System Management | Manual updated twice a year |
| | Building Management System (MBMS) | | | | | | | Plan d. BCM BCP-E5, Seawater Provision, Chiller & MBMS | |
| | | | | | | | | e. Mechanical Ventilation and Air Conditioning System Management Plan f. Chiller Systems Management Plan | |
| 38 | Airbridge Break Down | B1 ⁵ (L=3, C=4) | C ⁵ (L=3,C=2) | Y | Y | Υ | Y | a. BCM BCP-A1, i. Aircraft Loading Bridge | Manual updated twice a year |
| | | | | | | | | b. AOM Part E, Section 2 : Contingency Procedure for Airbridge Operations (Airfield) | Manual updated as per need basis |
| 39 | Aircraft Docking Guidance | A ⁶ (L=3,C=5) | C (L=3,C=1) | Υ | Y | Y | Υ | a. BCM BCP-A2, i. Aircraft Docking Guidance System | twice a year |
| | System Break Down ⁹ | | | | | | | b. AOM Part E, Section 1: Contingency Procedure for Aircraft Docking Guidance System (Airfield) | as per need basis |
| 40 | Lift & Escalators | B2 (L=3,C=3) | C (L=3,C=2) | Y | Υ | Υ | Υ | a. BCM BCP-B3, Lifts i. & Escalators | Manual updated twice a year |
| 41 | Traffic Control & Surveillance, Car Park Vehicle Access Control System | C ⁷ (L=3 ,C=2) | C ⁷ (L=2 ,C=2) | Y | Y | Y | Y | a. BCM BCP-D2, Traffic Control & Surveillance, Car Park Vehicle Access Control System | Manual updated twice a year |
| 42 | Trunked Mobile Radio | C (L=2,C=3) | C (L=1,C=3) | Y | Y | Υ | Y | a. BCM BCP-E6, TMR b. Tetra TMR system, M619 – "Operation and Maintenance | Manual updated twice a year Review as and when required |
| | | | | | | | | Manual" iii c. Tetra TMR system, system fallback iv drill and data | basis Review as and when required |
| | | | | | | | | backup v d. Hitachi TMR system, C 384 – "TMR O&M Manual" | Drill on an annual basis |
| | | | | | | | | e. Hitachi TMR system, system fallback drill and data backup f. BCM Alerting | |
| 43 | a. Water System | B2 ⁸ (L=4, C=2) | C ⁸ (L=3,C=1) | Υ | Y | Υ | Y | Matrix a. BCM BCP-E7, Water & Sewage | Manual updated twice a year |
| | b. Sewage System | | | | | | | b. Hydraulic System (Pipeworks and Fixtures) Management Plan | |
| 44 | Pre- Conditioned Air System Break Down | B2 (L=4, C=2) | C (L=3,C=1) | Y | Y | Y | Y | a. AOM Part E, Section 4: Contingency Procedure for Pre Conditioned Air System (Airfield) | Manual updated as per need basis |
| 45 | RHO & LMO on Strike | B1 (L=2, C=5) | B2 (L=2, C=4) | Y | Y | Υ | Υ | a. Individual i. operations manual of RHO ii. | as per need basis |

| | | | | | | | | b. AD/BH/PM002_8 : i. Manual updated as per need basis ii. Drills yearly BHS- IAC Decentralization Contingency Procedure (Airfield-BH) c. BCM BCP-A7, i. Manual updated |
|----|---|------------------|------------------|-----|---|---|---|--|
| | | | | | | | | Industrial Action twice a year Planning |
| 46 | Fire Safety Management | B2 (L=4; C=2) | C (L=3; C=2) | N/A | Y | Y | Y | a. EPM Volume 3 Parts 10A to 10D, Fire in PTB, Fire in GTC, Fire in AA Ancillary Building & EVT Fire Exercise x 12 / Yr b. Fire Safety Management Plan |
| 47 | Cargo Disruptions | B1 (L=3; C=4) | B2 (L=2; C=4) | Y | Y | Y | Y | a. BCM BCP-C2, Cargo Operations Disruption Contingency Plan AEC - Cargo Group Management Procedures (ALD) i. Manual updated twice a year. ii. Review/update for contingency manuals/plans as per need basis e.g. After each incident, drill, etc. |
| 48 | Catering Service Interruptions Due to System Breakdown | B1 (L=3; C=4) | B2 (L2=; C=4) | Y | Y | Y | Y | a. BCM BCP-A9, Aircraft Catering Services b. CPCS Contingency Manual, Section 1 Major Operation System & Equipment Failure and, Section 4 Environment Systems Failure c. LSG Contingency Plan, Section 10 Hazard-Specific Response Procedures d. GG Contingency Plan, Section 7 Failure of Machinery |
| 49 | Inflight Catering Food Poisoning on Passenger Food | B1 (L=3; C=4) | B2 (L2=; C=4) | Y | Y | Y | Y | a. BCM BCP-A9, Aircraft Catering Services b. CPCS Contingency Manual, Section 10 Food Poisoning c. LSG Food Safety Manual SOP Food Safety Complaint And Handling, Crisis Manual 2.1 Food Safety/Quality Incident d. GG Contingency Plan, Section 9 Food Poisoning |
| 50 | Disruption of Fuel Supply to HKIA for the Permanent Aviation Fuel Facility ¹⁰ | B2 (L=1,C=5) | C (L=1,C=4) | Y | Y | Y | Y | a. BCM BCP-A8, Aviation Fuel Services Disruption Plan b. Emergency /Crisis Response Plan (PAFF) c. PAFF Contingency / Continuity Plan (PAFF) d. PAFF Maintenance Plan (PAFF) e. Product Quality Assurance Procedure (PAFF) The ISO system is annually audited by external accredited auditors |

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| 51 | Disruption of Fuel Supply for the On- Airport Fuel System ¹¹ | B1 ¹¹ (L=2,C=5) | B2 (L=1,C=5) | Y | Y | Y | Y | a. BCM BCP-A8, Aviation Fuel Services Disruption Plan b. AFSC internal operational procedural manuals c. AFSC internal annual Business Risk Assessment reports |
|----|---|-------------------------------|------------------|---|---|---|---|--|
| 52 | UAS Threat ¹⁸ | A (L=3, C=5) | B2 (L=1, C=5) | Y | Y | Y | Y | a. EPM Part 17 UAS i. Manual update twice a year |
| | | | | | | | | b. AD-AFD-034 Unmanned Aircraft System Detection System (UASDS) Operation Procedures i. Manual updated as per need basis |

- Note 1. Risk 5 Was first recorded in Rev 01 (Apr 10) with Risk Category after mitigation as B2 (L4, C2). Amended in 2016, details refer to 2016 ORR Review Questionnaire. Further amended Risk Category After Mitigation Measures to C (L2,C3) in 2018, details refer to 2018 ORR Review Questionnaire.
 - 2. Risk 6 Was first recorded in Rev 01 (Apr 10) with Risk Category after mitigation as B2 (L1, C6). Amended in 2016, details refer to 2016 ORR Review Questionnaire. Further amended Risk Category After Mitigation Measures to C (L2,C3) in 2018, details refer to 2018 ORR Review Questionnaire.
 - 3. Risk 14 Was to replace the deleted Risk 14 T2 BHS Failure since Rev 09 (Mar 2013) with Risk Category before mitigation and after mitigation being B1(L3, C4) and B2 (L3, C3) respectively. Amended in 2016, details refer to 2016 ORR Review Questionnaire.
 - Risk 15 Was to replace the deleted Risk 15 BHS System Failure Caused by Bags Dieback to Check-in Counters since Rev 09 (Mar 13). Amended in 2016, details refer to 2016 ORR Review Questionnaire.
 - 5. Risk 38 Was first recorded in Rev 03 (Dec 10) with Risk Category before mitigation as B1 (L3, C4) and after mitigation as C(L3,C2). Record changed to B1 (L4, C3) and C (L3, C1) respectively between Rev 04 (Aug 11) and Rev 17 (Jun 16). Amended in 2016, details refer to 2016 ORR Review Questionnaire.
 - 6. Risk 39 Was first recorded in Rev 03 (Dec 10) with Risk Category before mitigation as A (L3, C5). Record changed to B1 (L4, C3) between Rev 04 (Aug 11) and Rev 17 (Jun 16). Amended in 2016, details refer to 2016 ORR Review Questionnaire.
 - Risk 41 TCSS, was first recorded in Rev 03 (Dec 10) with Risk Category before mitigation and after mitigation as C without likelihood and consequence levels stated until BCM update in Jul 2016. Value reconfirmed in ORR 2016, details refer to 2016 ORR Review Questionnaire.
 - 8. Risk 43 Water & Sewage System, was first recorded in Rev 03 (Dec 10) with Risk Category before mitigation as B2 and after mitigation as C without likelihood and consequence levels stated. Updated in 2016, details refer to 2016 ORR Review Questionnaire.
 - 9. Risk 39 Was renamed from Aircraft Parking Aids Breakdown to Aircraft Docking Guidance System Breakdown in Dec 2017.
 - Risk 50 Was renamed from Into Plane Refueling Supply Chain: PAFF Operations to Disruption of Fuel Supply to HKIA for the Permanent Aviation Fuel Facility in Jan 2017.
 - 11. Risk 51 Was renamed from Into Plane Refueling Supply Chain: AFSC Operations to Disruption of Fuel Supply for the On-Airport Fuel System in Jan 2017. The Fuel Supply has been replaced by new HDD pipelines in Q2 2018. The risk level has been slightly increased, details refer to 2018 ORR Review Questionnaire.
 - 12. Risk 7 Risk Category After Mitigation Measures was recorded B2 (L3,C3) and amended to C (L2,C3) in 2018. Since Aug 2018, screening of LAGs over 100ml measure has been extended to Transfer Screening Channels and adopted facial recognition technology to deploy Biometric e-Security Gates at Departure Hall to enhance security level.
 - 13. Risk 8 Risk Category After Mitigation Measures was recorded B2 (L3,C3) and amended to C (L2,C3) in 2018. Since Aug 2018, screening of LAGs over 100ml measure has been extended to Transfer Screening Channels and adopted facial recognition technology to deploy Biometric e-Security Gates at Departure Hall to enhance security level.
 - 14. Risk 9 Risk Category After Mitigation Measures was recorded B2 (L3,C3) and amended to C (L2,C3) in 2018, . Since Aug 2018, screening of LAGs over 100ml measure has been extended to Transfer Screening Channels and adopted facial recognition technology to deploy Biometric e-Security Gates at Departure Hall to enhance security level.
 - 15. Risk 9 Risk Category Before Mitigation Measures was amended from B1 (L3,C4) to A (L4,C4) in 2019. The prevailing civil unrest poses threat to the security at HKIA, eq. Potential intrusion to airside, thus inherit risk level has been changed.
 - 16. Risk 17 Risk Category Before Mitigation Measures was amended from B1 (L2,C5) to A (L3,C5) in 2019. Several sizable public assemblies at HKIA in 2019 obstructed airport and terminal operations, affected passengers flow which had led to the change of inherit risk level.
 - Risk 17 With the introduction of the interim Injunction Order in 2019 and National Security Law in 2020, Risk Category Before Mitigation Measures was reverted from A (L3, C5) to B1 (L2,C5) in 2020.
 - 18. Risk 52 New risk 52 of UAS Threat was first recorded in 2021. Increasing observation of drone activities have potential impact on air and ground movements and may lead to the worst scenario of causing aircraft accident.
 - 19. Risk 2 & 3 and 4 Risk Category Before Mitigation Measures was amended from A (L4,C4) to A (L5,C4) for Risks 2 & 3; and from B1 (L4,C3) to A (L5,C3) for Risk 4 in 2021. COVID-19 remained 'emergency' level with the virus developing variants which are affecting the airport and heightening its pandemic control measures.
 - 20. Risk 26 Risk Category Before Mitigation Measures was amended from B1 (L2,C5) to B2 (L1, C5) and After Mitigation Measures was amended from B2 (L2,C4) to C (L1,C4) in 2021. Tuen Mun-Chek Lap Kok Link (TM-CLKL) was commissioned in Dec 2020 and provided alternate road link connecting the downtown. The likelihood of total lost of road links is lowered.
 - 21. Risk 20 Renamed from 'Adverse Weather FIDS' to 'Adverse Weather FDSMS' in year 2019 due to the gradual replacement of display system.
 - 22. Risk 13 and 15: Risk 13 renamed from 'MICS Failure' to "BHS Supervisory & Control System Failure" and Risk 15 renamed from 'Direct Feed System (DFS) Failure' to "Baggage Conveyance System Failure" in 2023. This is to better group the existing and new Early Bag System (EBS) and Automated Arrival Baggage Delivery (AABD) with similar functionality under the same risks.

10.0 Business Partner Operational Risk Register

10.1. General

- Airport operations depend on the efficient interplay of all business partners, the AAHK
 integrated the risk management plans of each business partner to address the
 business continuity of key processes and systems and incorporate them into our
 Business Continuity Management System (BCMS).
- 2. Starting in 2017, individual Business Partner (BP) Operational Risk Register (ORR) is established in sequence schedule covering major BPs. Refer to 10.3. Identified significant risks are tracked and documented in the BP ORR in association with respective Business Continuity Plans.
- 3. The BP ORR contains (i) core risks that are critical and commonly applied to airport operations, which already kept in AAHK's risk registry; and (ii) risks that are specific to BPs' own business and operations.
- 4. The BP ORR is to be reviewed once every three years by AGM, BCP of SSBC in conjunction with other involved departments and BPs.
- 5. In between, BPs are encouraged to review and update their risks and business continuity plans regularly when respective business continuity plans are drilled and exercises.
- 6. Risks are assessed, prioritised and addressed according to the risk assessment matrix of respective BP.
- 7. All high priority risks are expected to be addressed with proper risk mitigation initiatives of risk transfer, risk avoidance and risk reduction to reduce the risks down to the acceptable risk level.

10.2. Operational Risk Register Matrix

 Each BP has its own Risk Assessment Matrix showing different categories of risks. Based on the in-depth deliberation with respective BP, it is agreed to respect and appreciate the differences amongst these Matrices and it may not be necessary to force alignment between them. However, BPs are required to provide their Risk Assessment Matrix for AAHK reference. Refer to Appendix I.

10.3. Business Partner Operational Risk Register Table

10.3.1. Core Risks

| Ide | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures |
|-----|---|--------------|------------------|---|---|--|--|
| Ram | p Handling Ope | erator (RHO) | | | | | |
| | | HAS | Moderate | Low | Υ | HAS Crisis Management Manual Vol. 2,3 & 4 | Manual updates Training Exercise & drill |
| 1 | Infectious disease outbreak within HKG | MCAT | Reduce | Retain | Y | MCAS EPM Chapter 10, 13 & 16 MCAS BCP Chapter 1.4, 1.5, 2.4.6, 4 & 7 MCAS Quality Manual MCAS Media Enquiry Handling Workflow | Manual updates Training Exercise & drill |
| | | SATS | 3A | 3C | Y | SATSHK Emergency Procedures Manual Chapter 9 & 12 | Manual updates Training |
| | | HAS | Moderate | Low | Y | HAS Crisis Management Manual Vol. 2 & 4 | Manual updates Training |
| 2 | Bomb warning | MCAT | Retain | Retain | Y | MCAS EPM Chapter 5, 13 & 16 MCAS BCP Chapter 1.5 & 2.4.6 MCAS Quality Manual | Manual updates Training Exercise & drill |
| | | SATS | 3B | 2C | Υ | SATSHK Emergency Procedures Manual Chapter 4 & 12 | Manual updates |
| | | HAS | High | Moderate | Υ | HAS Crisis Management Manual Vol. 2,4 & 5 | Manual updates Training Exercise & drill |
| 3 | Aircraft accident | MCAT | Reduce | Reduce | Y | MCAS EPM Chapter 2, 3, 13 & 16 MCAS BCP Chapter 1.4, 1.5, 2.4.6, 5 & 7 MCAS Quality Manual MCAS Media Enquiry Handling Workflow | Manual updates Training Exercise & drill |
| | | SATS | 3A | 2C | Y | SATSHK Emergency Procedures Manual Chapter 2 & 6 | Manual updates Exercise & drill |
| | | HAS | Moderate | Low | Y | HAS Crisis Management Manual Vol. 2 & 5 | Manual updates Training Exercise & drill |
| 4 | Adverse weather | MCAT | Reduce | Reduce | Y | MCAS EPM Chapter 9, 13 & 16 MCAS BCP Chapter 1.4, 1.5 & 2.4.6 MCAS Quality Manual | Manual updates Exercise & drill |
| | _ | SATS | 4B | 2C | Y | SATSHK Emergency Procedures Manual Chapter 8 & 11 | Manual updates |

| Ide | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures |
|------|------------------------|--------------|------------------|---|---|---|--|
| | | HAS | Low | Insignificant | Y | HAS Crisis Management Manual Vol. 2 & 4 | Manual updates Exercise & drill |
| 5 | No land link | MCAT | Retain | Retain | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 1.5 & 2.4.6 MCAS Quality Manual | Manual updates |
| | | SATS | 4B | 3C | Y | SATSHK Business Continuity Plan Section 10 | Manual updates |
| Carg | o Terminal Ope | erator (CTO) | | | | | |
| | | AAT | Low risk | Low risk | Y | AAT Business Continuity Plan Section 11 | Manual updates Training Exercise & drill |
| 1 | Infectious disease | CPSL | Moderate | Low | Y | CPSL Crisis Management Manual Vol. 4 Chapter 7 | Manual updates |
| 1 | outbreak within HKG | DHL | Medium | Medium | Y | DHL Operations Contingency Plan Chapter 3.2 | Manual updates Training Exercise & drill |
| | | HACTL | Minor | Minor | Y | Hactl Emergency & Business Continuity Plan Appendix 12 | Manual updates Training |
| | | AAT | Low risk | Low risk | Y | AAT Contingency Plan Chapter 6 | Manual updates Training Exercise & drill |
| 2 | Bomb | CPSL | Moderate | Low | Y | CPSL Crisis Management Manual Vol. 3 Chapter 4 | Manual updates Exercise & drill |
| 2 | warning | DHL | High | Medium | Y | DHL Operations Contingency Plan Chapter 3.3 | Manual updates Training Exercise & drill |
| | | HACTL | Major | Moderate | Y | Hactl Emergency Procedures Manual Chapter 7 | Manual updates Training Exercise & drill |
| | | AAT | Low risk | Low risk | Y | AAT Contingency Plan Chapter 5 | Manual updates Training Exercise & drill |
| 3 | Adverse | CPSL | Moderate | Low | Y | CPSL Crisis Management Manual Vol. 3 Chapter 9 | Manual updates Exercise & drill |
| 3 | weather | DHL | High | Medium | Y | DHL Operations Contingency Plan Chapter 3.4 | Manual updates Training Exercise & drill |
| | | HACTL | Moderate | Minor | Y | Hactl Emergency Procedures Manual Chapter 10 | Manual updates Training Exercise & drill |

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| lde | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures |
|-------|---|------------|------------------|---|---|---|--|
| Into- | plane Refuelinç | g Operator | | | | | |
| | | AFSC | High | High | Y | AFSCR CRP – Section 24.0 AFSCR Operation Risk Mitigation Plan | Manual updates |
| 1 | Infectious disease outbreak within HKG | CNAF | 5C | 3D | Υ | CNAF C1 Infectious disease outbreak within HKG | Manual updates |
| | | WFS | Medium | Low | Υ | Business Contingency Plan 3 rd edition Emergency Procedure Manual 5 th edition | Manual updates Exercise & drill |
| | | AFSC | Medium | Low | Y | AFSCR CRP – Section 20.1 AFSCR Operation Risk Mitigation Plan | Manual updates Training Exercise & drill |
| 2 | Bomb warning | CNAF | 3A | 1A | Y | CNAF C2 Bomb Threat | Manual updates |
| | | WFS | Medium | Low | Y | Business Contingency Plan 3 rd edition Emergency Procedure Manual 5 th edition | Manual updates Exercise & drill |
| | | AFSC | Medium | Low | Y | AFSCR CRP – Section 17.8 AFSCR Operation Risk Mitigation Plan | Manual updates Training Exercise & drill |
| 3 | Aircraft accident | CNAF | 3B | 1B | Y | CNAF C3 Aircraft Accident | Manual updates |
| | | WFS | Medium | Low | Y | Business Contingency Plan 3 rd edition Emergency Procedure Manual 5 th edition | Manual updates Exercise & drill |
| | | AFSC | High | Medium | Y | AFSCR CRP – Section 20.0 AFSCR Operation Risk Mitigation Plan | Manual updates |
| 4 | Adverse weather | CNAF | 4C | 1D | Y | CNAF C4 Adverse Weather | Manual updates |
| | | WFS | Medium | Low | Υ | Business Contingency Plan 3 rd edition Emergency Procedure Manual 5 th edition | Manual updates Exercise & drill |
| Avia | tion Fuel Tank | Farm | | | | | |
| 1 | Infectious disease outbreak within HKG | AFSC | High | High | Y | AFSCO CRP – Section 23.0 Crisis Communication Manual | Manual updates |
| 2 | Bomb warning | AFSC | Medium | Low | Y | AFSCO CRP – Section 21.2 Crisis Communication Manual | Manual updates Training Exercise & drill |

| Ide | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures |
|-------|---|---------|------------------|---|---|--|--|
| 3 | Aircraft accident | AFSC | Medium | Low | Y | AFSCO CRP – Section 17.11 Crisis Communication Manual | Manual updates Training Exercise & drill |
| Aircı | raft Caterer | | | | | | |
| | | CPCS | High | High | Y | CPCS BCP for COVID- 19 CPCS BCP for Highly Infectious Diseases | Manual updates Training |
| 1 | Infectious disease outbreak within HKG | GG | High | Low | Y | GG Contingency Plan Ch. 15 | Manual updates |
| | | LSG | Medium Risk | Medium Risk | Y | LSG Contingency Plan Ch. 8, 9.4, 10.9, 11 & 12 | Manual updates |
| | | CPCS | Insignificant | Insignificant | Y | CPCS Contingency Manual Ch. 19 | Manual updates Training |
| 2 | Adverse weather | GG | High | Low | Y | GG Contingency Plan Ch. 12 | Manual updates |
| | | LSG | Medium Risk | Medium Risk | Y | LSG Contingency Plan Ch. 10.11 | Manual updates |
| | | CPCS | Low | Low | Y | CPCS Contingency Manual Ch. 13.2 | Manual updates |
| 3 | Aircraft accident | GG | High | Low | Y | GG Contingency Plan Ch. 3 | Manual updates |
| | | LSG | Small Risk | Small Risk | Y | LSG Group Crisis Manual Ch. 2.3 | Manual updates |
| | | CPCS | Moderate | Moderate | Y | CPCS Contingency Manual Ch. 17.1 Security Induction Training Course Document Bomb Threat Report Form | Manual updates Training Exercise & drill |
| 4 | Bomb warning | GG | High | Low | Y | GG Contingency Plan Ch. 4 | Manual updates |
| | | LSG | Medium Risk | Medium Risk | Y | LSG Group Crisis Manual Ch. 2.5 | Manual updates |

| Ide | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures | | | | | |
|------|---|---------|------------------|---|---|--|------------------------------------|--|--|--|--|--|
| Line | Line Maintenance & Base Maintenance Operators | | | | | | | | | | | |
| | | CASL | N/A | N/A | Y | CASL Emergency Response Plan | Manual updates | | | | | |
| 1 | Infectious disease outbreak | HAECO | | Moderate | Υ | HAECO BCPCH08 Epidemics and Pandemics | Manual updates | | | | | |
| | within HKG | PAPAS | 3C | 2B | Y | PAPAS Business Continuity Plan for Major Epidemic Outbreak | Manual updates Exercise & drill | | | | | |
| | | CASL | N/A | N/A | Υ | CASL Emergency Response Plan | Manual updates | | | | | |
| 2 | Bomb Warning | HAECO | | High | Y | HAECO BCPCH04 Security Threat | Manual updates | | | | | |
| | | PAPAS | 2D | 2B | Υ | PAPAS SMS Manual | Manual updates Exercise & drill | | | | | |
| | | CASL | N/A | N/A | Y | CASL Emergency Response Plan | Manual updates Exercise & drill | | | | | |
| 3 | Aircraft accident | HAECO | N/A | N/A | Y | AAHK EPM | Manual updates | | | | | |
| | | PAPAS | 3D | 2C | Y | SMS Manual | Manual updates | | | | | |
| | | CASL | N/A | N/A | Y | CASL Emergency Response Plan | Manual updates | | | | | |
| 4 | Adverse weather | HAECO | | Ultra | Y | HAECO BCPCH07 Typhoon | Manual updates | | | | | |
| | | PAPAS | 2C | 2B | Υ | PAPAS LMOPM, SMS Manual | Manual updates Exercise & drill | | | | | |

Remark: CASL maintains As Low As Reasonably Practicable risk operation model in the daily operation.

10.3.2. Risks Specific to Business Partners' Own Business

| lde | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures |
|-----|--|--------------|------------------|---|---|--|--|
| Ram | p Handling Op | erator (RHO) | | | | | |
| | | HAS | Low | Insignificant | Υ | HAS Crisis Management Manual Vol. 2, 3 & 4 | Manual updates |
| 1 | Loss of access to workplace - operations control | MCAT | Retain | Retain | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 1.5 & 5.5 MCAS Quality Manual | Manual updates Training Exercise & drill |
| | centre | SATS | 3C | 2C | Y | SATSHK Business Continuity Plan Section 5 | Manual updates |
| | | HAS | Low | Insignificant | Y | HAS Crisis Management Manual Vol. 2, 3 & 4 | Manual updates |
| 2 | Loss of access to workplace - offices | MCAT | Retain | Retain | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 1.5, 2.4.6 & 5 MCAS Quality Manual | Manual updates Training Exercise & drill |
| | | SATS | 3B | 2C | Y | SATSHK Business Continuity Plan Section 5 | Manual updates |
| | Loss of ramp handling staff | HAS | Moderate | Low | Y | HAS Crisis Management Manual Vol. 2, 3 & 4 | Manual updates |
| 3 | | MCAT | Retain | Retain | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 1.5 & 2.4.6 MCAS Quality Manual | Manual updates |
| | | SATS | 3B | 3D | Υ | SATSHK Business Continuity Plan Section 10 | Manual updates |
| | | HAS | Moderate | Low | Υ | HAS Crisis Management Manual Vol. 2, 3 & 4 | Manual updates Exercise & drill |
| 4 | Internal computer system failure | MCAT | Reduce | Retain | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 1.5 & 8.14 MCAS Quality Manual | Manual updates |
| | | SATS | 3B | 3D | Υ | SATSHK Business Continuity Plan Section 6 | Manual updates |
| | Communica- | HAS | Low | Insignificant | Υ | HAS Crisis Management Manual Vol. 2, 3 & 4 | Manual updates |
| 5 | tion system failure | MCAT | Reduce | Retain | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 1.5 & 6.1 MCAS Quality Manual | Manual updates |

| lde | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures |
|-----|--|---------|------------------|---|---|---|--|
| | | SATS | 3B | 2C | Υ | SATSHK Business Continuity Plan Section 8 | Manual updates |
| | | HAS | Low | Low | Y | HAS Crisis Management Manual Vol. 2, 3 & 4 | Manual updates |
| 6 | Loss of public supplies - battery charging | MCAT | Retain | Retain | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 8.7.1 & 8.8.1 MCAS Quality Manual | Manual updates |
| | facilities | SATS | 3A | 3D | Υ | SATSHK Business Continuity Plan Section 7 | Manual updates |
| | | HAS | Low | Insignificant | Y | HAS Crisis Management Manual Vol. 2, 3 & 4 | Manual updates |
| 7 | Power supply interruption at RHOs' offices | MCAT | Retain | Retain | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 1.4, 1.5, 3, 5.5 & 8 MCAS Quality Manual | Manual updates |
| | onices | SATS | ЗА | 3C | Y | SATSHK Business Continuity Plan Section 5 | Manual updates |
| | | HAS | Moderate | Low | Y | HAS Crisis Management Manual Vol. 2, 3 & 4 | Manual updates |
| 8 | Insufficient GSE (short-term) | MCAT | Retain | Retain | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 1.5, 8.7.1 & 8.8.1 MCAS Quality Manual | Manual updates |
| | | SATS | 3B | 3D | Y | SATSHK Business Continuity Plan Section 9 | Manual updates |
| | | HAS | Moderate | Low | Y | HAS Crisis Management Manual Vol. 2 & 4 | Manual updates Training Exercise & drill |
| 9 | Airbridge break down | MCAT | Avoid | Reduce | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 1.5 & 8.2.3 MCAS Quality Manual | Manual updates |
| | | SATS | 3C | 2C | Y | SATSHK Ramp Services Operations Manual Section 3.7.3 | Manual updates |
| 10 | Baggage Handling | HAS | Moderate | Low | Y | HAS Crisis Management Manual Vol. 2,3 & 4 | Manual updates |
| 10 | System failure | MCAT | Avoid | Reduce | Y | MCAS EPM Chapter 13 & 16 MCAS BCP Chapter 1.5, 8.1.6 & 8.2.4 MCAS Quality Manual | Manual updates Exercise & drill |

| lde | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures | | | |
|-------|-------------------------------------|------------|------------------|---|---|--|--|--|--|--|
| | | SATS | 4B | 3D | Y | SATSHK Business Continuity Plan Section 6 SATSHK Ramp Services Operations Manual Chapter 10.5.8 (BMS Failure Handling) | Manual updates | | | |
| Carg | Cargo Terminal Operator (CTO) | | | | | | | | | |
| | | AAT | Low risk | Low risk | Y | AAT Contingency Plan Section 3 | Manual updates Training Exercise & drill | | | |
| | Internal computer | CPSL | Moderate | Low | Y | CPSL Crisis Management Manual Vol. 4 Chapter 2 | Manual updates Exercise & drill | | | |
| 1 | system failure | DHL | High | Medium | Υ | DHL Operations Contingency Plan Chapter 3.5 | Manual updates Training Exercise & drill | | | |
| | | HACTL | Minor | Minor | Y | Hactl Emergency Procedures Manual Chapter 9 | Manual updates Training Exercise & drill | | | |
| | | AAT | Low risk | Low risk | Y | AAT Contingency Plan Section 1 | Manual updates Training Exercise & drill | | | |
| | Power supply | CPSL | Moderate | Low | Y | CPSL Crisis Management Manual Vol. 4 Chapter 4 | Manual updates Exercise & drill | | | |
| 2 | interruption at CTOs' offices | DHL | Medium | Medium | Y | DHL Operations Contingency Plan Chapter 3.6 | Manual updates Training Exercise & drill | | | |
| | | HACTL | Minor | Minor | Y | Hactl Emergency Procedures Manual Chapter 8 | Manual updates | | | |
| Into- | plane Refuelin | g Operator | | | | | | | | |
| | Fuel spillage | AFSC | High | Medium | Y | AFSCR CRP – Section 17.3 AFSCR CRP#2 – CP2- SRP-02 AFSCR Operation Risk Mitigation Plan | Manual updates Training | | | |
| 1 | during aircraft refueling | CNAF | 4C | 2D | Y | CNAF C5 Fuel Spillage During Aircraft Refueling | Manual updates | | | |
| | | WFS | Medium | Low | Y | Business Contingency Plan 3 rd edition Emergency Procedure Manual 5 th edition | Manual updates Exercise & drill | | | |
| 2 | Internal computer | AFSC | High | Medium | Y | AFSCR CRP – Section 23.0 AFSCR Operation Risk Mitigation Plan | Manual updates Training | | | |
| | system failure | CNAF | 3D | 2D | Y | CNAF O1 Computer System Failure | Manual updates | | | |

Airport Authority Hong Kong Business Continuity Manual – ORR

| lde | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures |
|------|--|---------|------------------|---|---|---|--|
| | | WFS | Low | Low | Y | Business Contingency Plan 3 rd edition Emergency Procedure Manual 5 th edition | Manual updates Exercise & drill |
| | | AFSC | Medium | Medium | Y | AFSCR Operation Risk Mitigation Plan | Manual updates |
| 3 | Loss of access to workplace | CNAF | 3C | 1D | Y | CNAF O2 Loss of Access to Workplace | Manual updates |
| | | WFS | Low | Low | Y | Business Contingency Plan 3 rd edition Emergency Procedure Manual 5 th edition | Manual updates Exercise & drill |
| Avia | tion Fuel Tank | Farm | | | | | |
| 1 | Internal computer system failure | AFSC | High | Medium | Y | AFSCO CRP – Section 17.18 Crisis Communication Manual | Manual updates Training Exercise & drill |
| 2 | Leaks from supply pipeline / fuel hydrant | AFSC | High | Medium | Y | AFSCO CRP – Section 17.3 AFSCO CRP#2 – CP2- SRP-03 / 07 / 10 Crisis Communication Manual | Manual updates Training Exercise & drill |
| 3 | Overfill during filling of tanks | AFSC | Medium | Medium | Y | AFSCO CRP – Section 17.9 AFSCO CRP#2-CP2- SRP-08 Crisis Communication Manual | Manual updates Training Exercise & drill |
| 4 | Tank farm fire | AFSC | High | Medium | Y | AFSCO CRP – Section 17.4 Crisis Communication Manual | Manual updates Training Exercise & drill |
| Airc | raft Caterer | | | | | | |
| | | CPCS | High | Moderate | Y | CPCS Contingency Manual Ch. 7.3 | Manual updates Training |
| 1 | Water supply interruption | GG | Moderate | Low | Y | GG Contingency Plan Ch. 6 | Manual updates |
| | | LSG | Small Risk | Small Risk | Y | LSG Contingency Plan Ch. 8, 9.4, 10.6, 11, 12 | Manual updates |
| 2 | Electricity interruption | CPCS | High | Moderate | Y | CPCS Contingency Manual Ch. 7.1 | Manual updates Training Exercise & drill |

| Ide | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures |
|------|---|---------------|------------------|---|---|---|--|
| | | GG | Moderate | Low | Y | GG Contingency Plan Ch. 5 | Manual updates |
| | | LSG | Small Risk | Small Risk | Y | LSG Contingency Plan Ch. 8, 9.4, 9.5, 9.6, 10.5, 11, 12 | Manual updates |
| | | CPCS | Insignificant | Insignificant | Y | CPCS Contingency Manual Ch. 7.2 | Manual updates Training Exercise & drill |
| 3 | Towngas supply interruption | GG | Moderate | Low | Υ | GG Contingency Plan Ch. 11 | Manual updates |
| | | LSG | Small Risk | Small Risk | Y | LSG Contingency Plan Ch. 8, 9.4, 10.7, 11, 12 | Manual updates |
| | Catering service interruptions | CPCS | Moderate | Moderate | Υ | CPCS Contingency Manual Ch. 1.3 | Manual updates Training Exercise & drill |
| 4 | due to system breakdown (i.e. | GG | Moderate | Low | Y | GG Contingency Plan Ch. 7 | Manual updates |
| | equipment, machinery, IT system) | LSG | Small Risk | Small Risk | Y | LSG Contingency Plan Ch. 8, 9.4, 10.4, 10.10, 11, 12 | Manual updates |
| | loflinht | CPCS | Low | Low | Y | CPCS Contingency Manual Ch. 10.2 | Manual updates Training Exercise & drill |
| 5 | Inflight catering food poisoning on passenger | GG | Moderate | Low | Y | GG Contingency Plan Ch. 9 | Manual updates |
| | food | LSG | Small Risk | Small Risk | Y | LSG Group Crisis Manual Ch. 2.1, 3.1 | Manual updates |
| Line | Maintenance & | & Base Mainte | enance Operat | ors | | | |
| | | CASL | N/A | N/A | Y | CASL Emergency Response Plan | Manual updates |
| 1 | Internal computer system failure | HAECO | | Moderate | Y | HAECO IT system Breakdown | Manual updates Training Exercise & drill |
| | | PAPAS | 2C | 1C | Y | PAPAS Business Continuity Plan | Manual updates Exercise & drill |

| lde | entified Risk | Company | Risk Category | Risk Category After Mitigation Measures | Operational Contingency / Business Continuity Plans (Y/N) | Reference Plans / Related Processes | Mitigation Measures |
|-----|--|---------|------------------|---|---|--|--|
| | | CASL | N/A | N/A | Y | Business Continue Plan for abnormal operation | Manual updates |
| 2 | Communicat ion system failure | HAECO | | Moderate | Y | HAECO BCPCH01 IT system Breakdown | Manual updates Training Exercise & drill |
| | | PAPAS | 2C | 1C | Υ | PAPAS Business Continuity Plan | Exercise & drill Manual updates Exercise & drill Manual updates Manual updates Manual updates Manual updates Manual updates Training Exercise & drill Manual updates Manual updates Manual updates |
| | | CASL | N/A | N/A | Y | Business Continue Plan for abnormal operation | Manual updates |
| 3 | Loss of operational staff | HAECO | | Moderate | Y | HAECO BCPCH05-01 Temporary Staff Shortage | Manual updates |
| | | PAPAS | 3B | 2B | Y | PAPAS HIRA 220005 | Manual updates |
| | Loss of | CASL | N/A | N/A | Y | CASL Emergency Response Plan | Manual updates |
| 4 | public supplies – battery charging | HAECO | | Moderate | Y | HAECO BCPCH06-03 Electricity Outage | Training |
| | facilities | PAPAS | 2C | 1C | Y | PAPAS Business Continuity Plan | Manual updates |
| | | CASL | N/A | N/A | Y | CASL Emergency Response Plan | Manual updates |
| 5 | Power supply interruption at offices | HAECO | | Moderate | Y | HAECO BCPCH06-03 Electricity Outage | Manual updates Training Exercise & drill |
| | | PAPAS | 3B | 2B | Y | PAPAS SMS Manual | Manual updates Exercise & drill |
| | | CASL | N/A | N/A | Y | CASL Emergency Response Plan | Manual updates Exercise & drill |
| 6 | Fuel spillage during aircraft refueling | HAECO | N/A | N/A | Y | HAECO Chemical Spillage Procedure (Occupational Safety and Health Management Plan Section 2.7.4) | Manual updates Training |
| | | PAPAS | 3B | 2B | Y | PAPAS SMS Manual | Manual updates Exercise & drill |
| | | CASL | N/A | N/A | Y | CASL Emergency Response Plan | Manual updates Exercise & drill |
| 7 | GSE fire | HAECO | | High | Y | HAECO BCPCH06-01 Fire | Manual updates Training Exercise & drill |
| | | PAPAS | 3B | 2B | Y | PAPAS SMS Manual | Manual updates Exercise & drill |

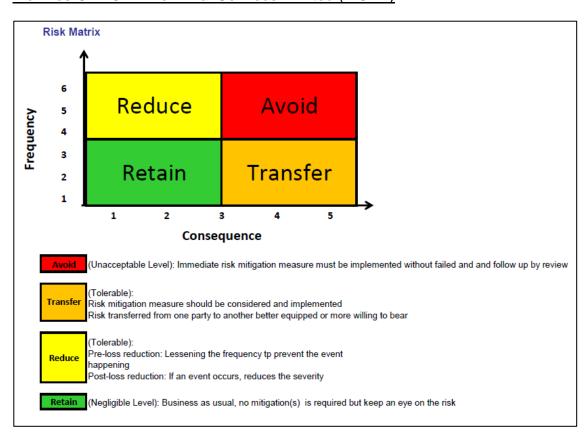
Remark: CASL maintains As Low As Reasonably Practicable risk operation model in the daily operation.

Appendix I: Business Partners Risk Assessment Matrix

Hong Kong Airport Services Limited (HAS)

| Likelihood | | | | Consequence Le | vel | | |
|--------------------------|------------|----------|---|---|--------------------|----------------------|--|
| Level | (1) Insign | nificant | (2) Minor | (3) Moderate | (4) Major | (5) Catastrophic | |
| (A) Almost | Н | | Н | Е | Е | E | |
| certain | | | | | | | |
| (B) Likely | М | | Н | Н | Е | E | |
| (C) | L | | M | Н | Н | E | |
| Moderate | | | | | | | |
| (D) Unlikely | L | | L | M | Н | E | |
| (E) Rare | L | | L | M | Н | Н | |
| RISK ACCESS | MENTO | UTCON | 1E | | | | |
| E : Extreme Ris | k | | el is intolerable. I pe ceased immed | mmediate actions a iately | re required. If po | ssible, the activity | |
| H: High Risk Immedi | | | mediate actions are required. Risk level should be reduced as soon as possible. | | | | |
| M: Moderate Risk Actions | | | ons are required and the action dates must be specified | | | | |
| | | | | olerable, if the existi ed. No additional ac | | ires and routine | |

Menzies CNAC Air Terminal Services Limited (MCAT)



SATS HK Limited (SATS)

| | | Risk severity | | | | |
|------------|-----------------|----------------------------|--|--|-----------------------|-----------------|
| Risk proba | ability | Catastrophic A | Hazardous B | Major C | Minor D | Negligible E |
| 5 – Freque | ent | 5A | 5B | 5C | 5D | 5E |
| 4 – Occas | ional | 4A | 4B | 4C | 4D | 4E |
| 3 – Remot | te | 3A | 3B | 3C | 3D | 3E |
| 2 – Improb | bable | 2A | 2B | 2C | 2D | 2E |
| 1 – Extren | nely improbable | 1A | 1B | 1C | 1D | 1E |
| | | | | | | |
| | | | | | | |
| | Assessment F | | THE RESIDENCE OF THE PARTY OF T | ement Crit | eria nder the exis | ting |
| | Assessment F | | Unacce | | 77 | ting |
| | BIRTHER LAND | A, 4B, 3A | Unacci circums Risk c | eptable ur stances | der the exis | |
| | 5A, 5B, 5C, 4A | A, 4B, 3A B, 3C, 2A, 2B | Uhaco olfoum Risk o manag | eptable un stances ontrol/miti ement dec table after | der the exis | ires |

Asia Airfreight Terminal Co Ltd (AAT)

| | AAT Risk Matrix | | | | | | | | | | |
|-------------|-----------------|---------------|-----|----------|--------|-------------|------------------|--|--|--|--|
| Pro | bability | Extremely Low | Low | Unlikely | Likely | Very likely | Extremely likely | | | | |
| Cons | equence | 1 | 2 | 3 | 4 | 5 | 6 | | | | |
| Very High | 6 | 6 | 12 | 18 | 24 | 30 | 36 | | | | |
| High | 5 | 5 | 10 | 15 | 20 | 25 | 30 | | | | |
| Significant | 4 | 4 | 8 | 12 | 16 | 20 | 24 | | | | |
| Moderate | 3 | 3 | 6 | 9 | 12 | 15 | 18 | | | | |
| Low | 2 | 2 | 4 | 6 | 8 | 10 | 12 | | | | |
| Very Low | 1 | 1 | 2 | 3 | 4 | 5 | 6 | | | | |
| | | | _ | | | | | | | | |

| Residual Risk Rating (Probability X Consequence) | | | | | | | |
|--|-------|--|--|--|--|--|--|
| High Risk | 25-36 | | | | | | |
| Medium Risk | 13-24 | | | | | | |
| Low Risk | 1-12 | | | | | | |

Cathay Pacific Services Limited (CPSL)

| | Negligible | Minor 2 | Moderate 3 | Major 4 | Catastrophic 5 |
|----------------------|---------------|---------------|---------------|-------------------|-----------------------|
| Almost Certain | LOW | MODERATE | нідн | ULTRA | ULTRA |
| Likely 4 | Low | MODERATE | HIGH | ULTRA | ULTRA |
| Possible 3 | LOW | Low | MODERATE | HIGH | ULTRA |
| Unlikely 2 | INSIGNIFICANT | Low | LOW | MODERATE | HIGH |
| Rare 1 | INSIGNIFICANT | INSIGNIFICANT | LOW | MODERATE | HIGH |

Management Signalling - Actions Required

| Risk Ranking | Urgency of Action | Process | Level of Management involvement | Oversight | |
|---------------|---|--|---------------------------------|-------------------------------|--|
| ULTRA | Stop. Immediate attention required. Do not proceed until risk is mitigated appropriately. | Specific action plan required before operation re-starts | Chief Executive Officer | EXECOM | |
| нісн | Significant risks that require immediate attention. | Risks must be understood and a high level of risk reduction and control in place before operations continue. | Department Head (M1/M2) | Chief Executive Office | |
| MODERATE | Significant risks that require appropriate mitigation and monitoring. | Management responsibility identified. Specific action(s) allocated. Implementation timetable determined. | Department Manager (M2/M3) | Department Head (M1/M2) | |
| LOW | Risks are considered as not significant. Appropriate mitigation and monitoring required. | Normally be managed by routine procedures or minor mitigation. | G1 / M3 | Department Manager (M2/M3) | |
| INSIGNIFICANT | Risks are considered to be insignificant. No mitigation required. | For statistics only or minimal intervention. | G1 / G2 | None | |

DHL Aviation (Hong Kong) Limited (DHL)

| Ris | sk Assessment | | | Impact | | |
|------------|---------------|-------------------|-----------|--------------|-----------|-------------|
| | Matrix | 1 – Insignificant | 2 – Minor | 3 – Moderate | 4 – Major | 5 – Massive |
| | 5 – Expected | 5 | 10 | 15 | 20 | 25 |
| pc | 4 – Likely | 4 | 8 | 12 | 16 | 20 |
| Likelihood | 3 – Probably | 3 | 6 | 9 | 12 | 15 |
| Li | 2 – Unlikely | 2 | 4 | 6 | 8 | 10 |
| | 1 – Rare | 1 | 2 | 3 | 4 | 5 |

| Risk Index (= Likelihood x Impact) | Risk Category |
|---------------------------------------|---------------|
| 1 to 4 | Low |
| 5 to 12 | Medium |
| 13 to 25 | High |

Hong Kong Air Cargo Terminal Limited (HACTL)

| | Likelihood | 4 | 2 | 2 | A | |
|--------------|------------|-----|-----|-----|-----|-----|
| Minor | | 1-2 | 1-2 | 3 | 4 | |
| | Impact | 1-2 | 1-2 | 1 | 1 | |
| | | | | | | _ |
| Moderate | Likelihood | 1 | 2 | 3 | 4 | |
| | Impact | 3 | 3 | 2 | 2 | 1-2 |
| | | | | | | |
| Major | Likelihood | 1 | 2 | 3 | 4 | 5 |
| ···aja: | Impact | 4-5 | 4 | 3-4 | 3 | 3 |
| | | | | | | |
| Catastrophic | Likelihood | | 2 | 3 | 4 | 5 |
| Catastrophic | Impact | | 5 | 5 | 4-5 | 4-5 |

| Likelihood F | ikelihood Rating | | | | | |
|--------------|---------------------------|----------------------------------|---|--|--|--|
| Rating | Descriptor | Annual Frequency | Probability | | | |
| 1 | Rare | Once in 25 years or more | <10% chance of occurrence over life of asset or project | | | |
| 2 | Unlikely | Once in 10 - 25 years | 10% up to 35% chance of occurrence over life of asset or project | | | |
| 3 | Possible | Once in 5 - 10 years | 35% up to 65% chance of occurrence over life of asset or project | | | |
| 4 | Likely | Once in 2 - 5 years | 65% up to 90% chance of occurrence over life of asset or project | | | |
| 5 | Frequent / Almost certain | Once or more in less than 2 year | 90% or greater chance of certain occurrence over life of asset or project | | | |

| Impact Rati | Impact Rating | | | | | | | | |
|-------------|------------------|---------------------|-----|---------------------|----|---------------------|---------------|---|--------------------------|
| | Financial Impact | | | | | Reputational Impact | | Reputational Impact | |
| Rating | Descriptor | Total cost in USD'm | | Total cost in USD'm | | | Rating | Descriptor | Reputation & Brand Image |
| | | From | То | Scale | | | | | |
| 1 | Insignificant | 0% | 5% | ⋖ | | 1 | Insignificant | Little to no media exposure | |
| 2 | Minor | 5% | 10% | 3-5 | OR | 2 | Minor | Visible local media exposure | |
| 3 | Moderate | 10% | 30% | 5 - 20 | | 3 | Moderate | National media exposure | |
| 4 | Major | 30% | 70% | 20 - 40 | | 4 | | Significant international and social media exposure; significant loss of market share | |
| 5 | Extreme | 70% | NA | >40 | | 5 | Extreme | Very significant international and social media exposure; game changing loss of market share | |

| Velocity Rating | | | | | |
|-----------------|------------|--|--|--|--|
| Rating | Descriptor | Definition | | | |
| 1 | Slow | Could impact the business within a year or more | | | |
| 2 | Medium | Could impact the business within several months | | | |
| 3 | Rapid | Could impact the business within a matter of days to a few weeks | | | |

AFSC Operations Limited / AFSC Refuelling Limited (AFSC)

| Score | Likelihood | Likelihood Definition | Occurrence / Year |
|-------|---|--|----------------------|
| 5 | Likely | Could occur several times during over plant lifetime | > 10-2 |
| 4 | Unlikely | Could occur once for every 10 to 20 similar plants over 20 to 30 years of plant lifetime | |
| 3 | Very unlikely | - One time per year for at least 1000 units - One time for every 100 to 200 similar plants in the worls over 20 to 30 years of plant lifetime - Has already occurred in the company but corrective action has been taken | 10-3 - 10-4 |
| 2 | Extremely Has already occurred in the industry but correct action has been Unlikely taken | | 10-4 - 10-5 |
| 1 | Remote | Event physically possible but has never or seldom occurred over a periosd of 20 to 30 years for a large amount of sites (>few thousands, ex: wagons, process drums,) | < 10-5 |

| Category | Human Injury | Financial Cost | Work | Environmental Damage |
|----------------------|--|--|--|---|
| 5 Disaster | Multiple fatality | Significant financial loss (over \$1m) | Major disruption to operations | Major and unstained pollution external to the site and/or extensive loss of aquatic life |
| 4 Very Serious | Fatality | Significany financial loss (\$500K to \$1m) | Significant operation disruption | Important pollution with reversible environmental consequences external to the site |
| 3 Serious | Serious injury (permanent disability, amputation) | Substantial financial loss (\$50K to \$500K) | Notable operation disruption | Significant pollution external to the site |
| 2 Substantial | Disabling injury (medical treatment) | Notable financial loss (\$5K to \$50K) | Slight operations disruption | Moderate pollution within site limits |
| 1 Min or | First aid treatment (minor cuts, bruies or burns) | Negligible financial loss (upto \$5K) | No effect on work | (Upto) spill or release of pollutant requiring a declaration to authorities but without environmental consequences |

| RISK | RISK (R) | | LIKELIHOOD (L) | | | | |
|-------------|-------------|----|------------------|----|----|---|--|
| = Likelihoo | od x lmpact | 5 | 4 | 3 | 2 | 1 | |
| | 5 | 25 | 20 | 15 | 10 | 5 | |
| СТ(1) | 4 | 20 | 16 | 12 | 8 | 4 | |
| ACT | 3 | 15 | 12 | 9 | 6 | 3 | |
| IMPAG | 2 | 10 | 8 | 6 | 4 | 2 | |
| | 1 | 5 | 4 | 3 | 2 | 1 | |

| RISH | RISK (R) = Likelihood x Impact | | LIKELIHOOD (L) | | | | |
|-------------|--------------------------------|---|------------------|---|---|---|--|
| = Likelihoo | od x Impact | 5 | 4 | 3 | 2 | 1 | |
| | 5 | Н | Н | Н | M | L | |
| (1) | 4 | Н | Н | М | М | L | |
| ACT | 3 | Н | М | М | М | L | |
| IMPAC | 2 | М | М | М | L | L | |
| | 1 | L | L | L | L | L | |

CNAF Hong Kong Refuelling Limited (CNAF)

CNAF Risk Assessment Matrix

| | | Severity | | | | | | |
|----|-------------------------|--------------|-----------|-------|-------|------------|--|--|
| Fr | equency | Α | В | С | D | E | | |
| | | Catastrophic | Hazardous | Major | Minor | Negligible | | |
| 5 | Frequent | 5A | 5B | 5C | 5D | 5E | | |
| 4 | Occasional | 4A | 4B | 4C | 4D | 4E | | |
| 3 | Remote | ЗА | 3В | 3C | 3D | 3E | | |
| 2 | Improbable | 2A | 2B | 2C | 2D | 2E | | |
| 1 | Extremely Improbable | 1A | 1B | 1C | 1D | 1E | | |

Severity = 嚴重性: 當發生事故時, 對人員可能做成的傷害

| Rank | Category | Description |
|------|--------------|---|
| А | Catastrophic | - Multiple fatalities & injury - Damage to environment - Properties destroyed |
| В | Hazardous | - Serious injuries - Environmental issue - Properties damaged |
| С | Major | - Serious incident - Injury to persons |
| D | Minor | - Minor incident - First-aid treatment |
| E | Negligible | - Few consequences |

Frequency = 可能性:以前曾經發生同類事故,並引至相關的後果

| Rank | Category | Description |
|------|-------------------------|---|
| 5 | Frequent | Likely to occur frequently (occurred frequently with historical data) |
| 4 | Occasional | Likely to occur sometimes (has infrequent occurred) |
| 3 | Remote | Unlikely to occur but has potential to occur (rarely occurred) |
| 2 | Improbable | Very unlikely to occur (no historical data) |
| 1 | Extremely Improbable | Almost unlikely to occur |

Risk Level = 危害級別:

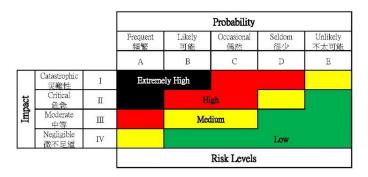
High 高 不可接受(考慮改變工序,以減低風險)

Medium中 可容忍的風險(在合理可行情况下,應採取危害控制措施,將風險進一步减低)

Low 低 對安全不構成危險(不須採取危害控措施)

Worldwide Flight Services Fueling (Hong Kong) Limited (WFS)

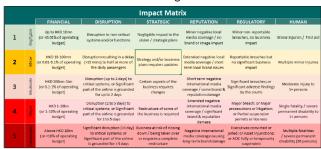
Risk Exposure table



| | Definition |
|-------------|---|
| | Frequent - Occurs often. Continuously experienced. (more than 15 a year) |
| Ę | Likely - Occurs several times. Occurs frequently. (10-15 a year) |
| gabi | Occasional - Occurs sometime. Occurs sporadically, or several times. (5-10 a year) |
| Probability | Seldom - Possible to occur. Remote chance of occurrence; expected to occur sometimes. (2-5 a year) |
| щ | Unlikely - Can assume will not occur. Possible, but improbable; occurs only very rarely. (0-2 a year) |
| | |
| | Catastrophic - Complete service failure, death, loss of system or loss of business, violate the legal requirement. |
| Impact | Critical - Major service degradation, severe injury, occupational illness, major system damage or receive of customer written complaint. |
| 遺 | Moderate - Minor service degradation, injury, minor occupational illness, minor system damage or receive of customer verbal complaint. |
| 10.10 | Negligible - Less than minor service degradation, injury, occupational illness, or minor system damage. |
| | |
| (0) | Extremely High - Not acceptable risk. Cannot provide service and incornigible even risk reducing treatment has been implemented. |
| Ze. | High - Not acceptable risk. Cannot provide the service before risk reducing treatment has been implemented. |
| Risk levels | Medium - The risk can be acceptable, but for each threat the development of the risk must be monitored on a regular basis, with a following consideration whether necessary measures have |
| 39 | to be implemented. |
| | Low - Acceptable risk. The service can be maintained with the identified threats, but the threats must be observed to discover changes that could increase the risk level. |

Cathay Pacific Catering Services (CPCS)

CPCS Risk Matrix used for ranking risks



| | Vulnerability Matrix | | | | | | | | |
|---|----------------------|--|--|--|--|--|---|---|--|
| | | CONTROL | | | CRISIS | | VELOCITY | EXTERNAL FACTOR (%) | |
| 1 | Hah | No documented policies, guidelines and/or controls | Majority of controls are not effective or have not been self-assessed | Controls that are in place does not mitigate the risk | No crisis response plans are in place should the risk materialise | Crisis response plans have not been tested | Long duration between onset of risk and its impact, i.e. multiple years (1) | No external factor. Risk is a result of internal factors that can be controlled (0%) | |
| 2 | | Ad-hoc policies and controls exist but does not cover all aspects of the risk. | Over a half of controls in place to mitigate the risk are not effective | Controls in place only mitigate a minor part of the risk | Ad-hoc plans are in place but does not cover all aspects of the risk | Majority of Crisis response plans have not been tested or are ineffective | Risk takes up to a year (from onset) to impact the business (2) | Minimal external. Majority of the risk is Internal that can be controlled (25%) | |
| 3 | | Some documented policies exist but operate In silos across the business | Half of controls in place to mitigate the risk are operating effectively | Controls in place mitigate some of the risk | Some documented response plans exist with regular reviews and updates | Crisis response plans have been tested regularly with some being ineffective | Risk takes months (from onset) to impact the business (3) | Partly external. Some of the risk is internal that can be controlled (50%) | |
| 4 | | Documented policies covering all aspects of the risk but not regularly reviewed | Majority of controls to mitigate the risk are operating effectively | Controls that are in place mitigate majority of the risk | Majority of crisis response plans are in place with regular reviews and updates | Majority of crisis response plans are tested regularly and are effective | Risk takes weeks to Impact the business (4) | Mainly external. Majority of risk is external (75%) | |
| 5 | MOJ | Well documented end-to end policies that are regularly updated | - All controls in place to mitigate the risk are operating effectively | Controls are sufficient to mitigate all of the risk | Well documented plans should any aspect of the risk materialise | All crisis response plans are regularly tested and are adequate/effective | Rapid impact of risk from onset, i.e. within days. | Fully external risk that cannot be prevented using internal controls (100%) | |

Overall Risk ranking:
Impact score x weighted Vulnerability score

Risk Rating

Ultra

High

Moderate

Low

Insignificant

Gate Gourmet Hong Kong Limited (GG)

RISK DEFINITION AND CLASSIFICATION:

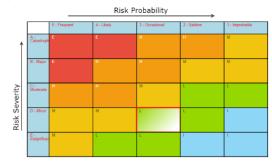
QUALITATIVE MEASURES OF RISK PROBABILITY

| Level | Descriptor | Description | | | |
|-------|------------|---|--|--|--|
| 5 | Frequent | The event is expected to occur in most circumstances | | | |
| 4 | Likely | The event will probably occur in most circumstances | | | |
| 3 | Occasional | The event should occur at some time | | | |
| 2 | Seldom | The event could occur at some time | | | |
| 1 | Improbable | The event may occur only in exceptional circumstances | | | |

QUALITATIVE MEASURES OF RISK SEVERITY

| Level | Descriptor | Detail Description | | | | | |
|-------|---------------|---|--|--|--|--|--|
| E | Insignificant | No injuries, low financial loss | | | | | |
| D | Minor | st aid treatment, on-site release immediately contained, medium financial loss | | | | | |
| С | Moderate | ledical treatment required, on-site release contained with outside assistance, high financial loss | | | | | |
| В | Major | Extensive injuries, loss of production capability, off-site release with no detrimental effects, major financial loss | | | | | |
| Α | Catastrophic | Death, toxic release off-site with detrimental effect, huge financial loss | | | | | |

QUALITATIVE RISK ANALYSIS MATRIX - LEVEL OF RISK



LEGEND:

- E Extremely High risk: Detailed research with professional and consultant involvement shall be carried out. Top Management shall take initiative for control measures
- H High risk: Individual Action Plan shall be proposed by Risk & Compliance and Process Owner to Top Management for further control measures
- M Moderate risk: Individual Action Plan shall be proposed by Risk & Compliance to Process Owner for further control measures
- L Low risk: Manage by routine procedures
- I Negligible risk: The risk is so low that can ignore

LSG Sky Chefs HK Ltd (LSG)

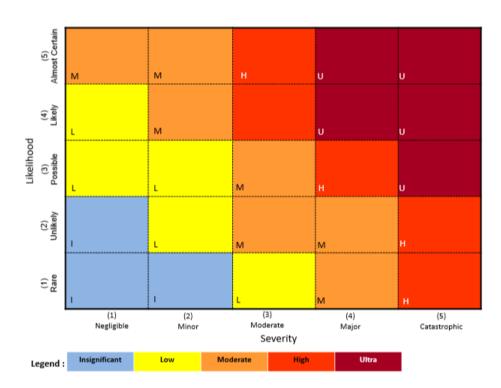
Table 3 - Risk Rating

| Likelihood / | Insignificant | Minor | Moderate | Critical | Catastrophic |
|---------------------------|---------------|-------------|---------------------|---------------------|---------------------|
| Consequence | | | | | |
| Practically Impossible | Small Risk | Small Risk | Small Risk | Medium Risk | Medium Risk |
| Unlikely | Small Risk | Medium Risk | Medium Risk | High Risk | High Risk |
| Possible | Small Risk | Medium Risk | High Risk | High Risk | Substantial Risk |
| Occasionally | Medium Risk | High Risk | High Risk | Substantial Risk | Substantial Risk |
| Often | Medium Risk | High Risk | Substantial Risk | Substantial Risk | Substantial Risk |

China Aircraft Services Limited (CASL)

| | ALMOST CERTAIN 16 | LOW 16 | MODERATE 48 | HIGH 144 | ULTRA 432 | ULTRA 1296 | |
|------------|-------------------------|-----------------|----------------|---------------|--------------|------------------------|--|
| | LIKELY | LOW | MODERATE | HIGH | ULTRA | ULTRA | |
| | 8 | 8 | 24 | 72 | 216 | 648 | |
| LIKELIHOOD | POSSIBLE | LOW | LOW | MODERATE | HIGH | ULTRA | |
| | 4 | 4 | 12 | 36 | 108 | 324 | |
| | UNLIKELY | INSIGNIFICANT | LOW | LOW | MODERATE | HIGH | |
| | 2 | 2 | 6 | 18 | 54 | 162 | |
| | RARE | INSIGNIFICANT | INSIGNIFICANT | LOW | MODERATE | HIGH | |
| | 1 | 1 | 3 | 9 | 27 | 81 | |
| | | NEGLIGIBLE 1 | MINOR 3 | MODERATE 9 | MAJOR 27 | CATASTRO PHIC 81 | |
| | | SEVERITY | | | | | |

Hong Kong Aircraft Engineering Company Limited (HAECO)



Pan Asia Pacific Aviation Services Limited (PAPAS)

| rence | (5) Frequent • Likely to occur many times (has occurred frequently) | 5A (High) | 58 (High) | SC (Very High) | | |
|---------------------------|--|--|---|---|--|--|
| | (4) Occasional • Likely to occur sometimes (has occurred infrequently) | 4A (Low) | 48 (Low) | 4C (High) | 45 (Very High) | |
| Probability of Occurrence | (3) Remote • Unlikely, but possible to occur (has occurred rarely) | 3A (Very.Low) | 38 (Low) | 3C (High) | 3D (High) | SE (Very High) |
| Probab | (2) improbable • Very unlikely to occur (not known to have occurred) | 2A (Very Low) | 28 (Very Low) | 2C (Low) | 20 (High) | 2E (High) |
| | (1) Extremely Improbable • Almost inconceivable that the event will occur | IA (Very Low) | 18 (Very Low) | IC (Very Low) | 1D (Low) | 1E (Low) |
| | | (A) Negligible • Little consequences | (B) Minor Nuisance Operating limitations Use of emergency procedures Minor incident | (C) Major A significant reduction in safety margins A reduction in the ability of the operators to cope with adverse operating conditions as a result of increase in workload, or as a result of conditions impairing their efficiency Serious incident Injury to persons | (D) Hazardous A large reduction in safety margins, physical distress or a workload such that the operators cannot be relied upon to perform their tasks accurately or completely Serious injury Major equipment damage | (E) Catastrophic • Equipment destroyed • Death of person |
| | | | | Risk Severity | | |
| 10 | Very High 5C, 5D, 5E, 4D, 4E, 3EI | | ble under the existing circuled to reduce risk to an acce | imstances. Do not permit a eptable level | ny operation until sufficien | t control measures have |
| | High A, 5B, 4C, 3C, 3D, 2D, 2E | A CONTRACTOR OF THE PROPERTY O | ention and approval of risk | control/mitigation actions | required | |
| | Low 4A, 4B, 3B, 2C, 1D, 1E) | | review of the operation | | | |
| | Very tow (3A, 2A, 2B, 18, 16) | Acceptable | | | | |

End of ORR