

Ramp LOSA Observation – Threat Codes (Reference 1 of 2)

Instructions for Use:

1. The following categories provide a number for the “Threat Code” column in the Ramp LOSA Observation Form.
2. Select a letter and number combination (e.g., T/A 1= Aircraft – A/C configuration.)
3. More than 1 code per item is possible.

Definitions:

Threat – any condition that increases complexity of the operations and if not managed properly can decrease the safety margin.

Error – a mistake that is made when threats are mismanaged.

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T/A. Aircraft (e.g., malfunction, poor condition, poor design, poor set-up, stage in the wrong place)

- T/A 1. A/C configuration
- T/A 2. A/C exterior
- T/A 3. A/C interface design
- T/A 4. A/C staging
- T/A 5. A/C positioning
- T/A 6. A/C cargo/bulk load positions
- T/A 7. APU
- T/A 8. Cabin
- T/A 9. Other interior, specify _____
- T/A 10. Doors
- T/A 11. Electrical
- T/A 12. Engine
- T/A 13. Fire protection
- T/A 14. Flight controls
- T/A 15. Fuel
- T/A 16. Hydraulic
- T/A 17. Landing gear
- T/A 18. Lavatories
- T/A 19. Warning systems
- T/A 20. Windows
- T/A 21. Other A/C, specify _____

T/B. Ground Equipment (e.g., malfunction, poor condition, poor design, poor set-up, stage in the wrong place)

- T/B 1. Equipment interface/design
- T/B 2. Equipment staging
- T/B 3. Equipment positioning
- T/B 4. Equipment availability
- T/B 5. Motorized Equipment
 - T/B 5.1. Bag tug
 - T/B 5.2. Beltloader
 - T/B 5.3. Catering truck
 - T/B 5.4. Cleaning truck
 - T/B 5.5. Container loader
 - T/B 5.6. De-ice truck
 - T/B 5.7. Electric (golf) cart
 - T/B 5.8. Forklift
 - T/B 5.9. Fuel truck
 - T/B 5.10. Lavatory truck
 - T/B 5.11. Lift trucks
 - T/B 5.12. Mx vehicles
 - T/B 5.13. Passenger loading bridge
 - T/B 5.14. Pick up vehicles
 - T/B 5.15. Pushback tractor
 - T/B 5.16. Snow removal equipment
 - T/B 5.17. Stairs truck
 - T/B 5.18. Sweeper/vacuum
 - T/B 5.19. Towbar less tractor (TBL)
 - T/B 5.20. Van
 - T/B 5.21. Water truck
 - T/B 5.22. Other vehicles, specify _____
- T/B 6. Non-motorized ground equipment
 - T/B 6.1. Air conditioning cart
 - T/B 6.2. Airstart
 - T/B 6.3. Bag carts/dollies
 - T/B 6.4. Fuel cart
 - T/B 6.5. Gate services cradle/basket
 - T/B 6.6. Ground Power Unit (GPU)
 - T/B 6.7. Lavatory cart
 - T/B 6.8. Maintenance stands
 - T/B 6.9. Mobile stairs
 - T/B 6.10. Rolling bag rack
 - T/B 6.11. Tail stand
 - T/B 6.12. Towbar
 - T/B 6.13. Unit load device (ULD)
 - T/B 6.13.1. Container
 - T/B 6.13.2. Pallet (bag, cargo strap)
 - T/B 6.13.3. Container sort platform
 - T/B 6.13.4. ULD transfer ball mats
 - T/B 6.14. Water cart
 - T/B 6.15. Others, specify _____
- T/B 7. Other ground equipment threats, specify _____

T/C. Communication/Interactions (e.g., breakdown, disconnection, miscommunication)

- T/C 1. Air dangerous goods (e.g., hazmat)
- T/C 2. Airport Ops
- T/C 3. ATC/ground control
- T/C 4. Cabin crew
- T/C 5. Cargo handler
- T/C 6. Cargo warehouse
- T/C 7. Catering
- T/C 8. Customer service
- T/C 9. Customs & Immigrations & Agriculture
- T/C 10. Emergency Responders
- T/C 11. Flight control
- T/C 12. Flight crew
- T/C 13. Fuelers
- T/C 14. Load control center
- T/C 15. Maintenance
- T/C 16. Ramp crew (e.g., loading bridge operator)
- T/C 17. Regulator Inspector
- T/C 18. Security
- T/C 19. Shift Turnover/Work Continuation
- T/C 20. Terminal Operations
- T/C 21. Vendors/Business Partners
- T/C 22. Other communication/interaction issues (e.g., failure to communicate pre-arrival information), specify _____

T/D. Documents (e.g., availability and easy access to the following documents, legibility, clarity)

- T/D 1. Aircraft Weight and Balance Sheet/Aircraft Load Instruction Sheet
- T/D 2. Bulletins
- T/D 3. Cargo load report
- T/D 4. Checklist
- T/D 5. Fuel service record
- T/D 6. Log book (A/C)
- T/D 7. LCC (ramp worksheet, fuel distribution)
- T/D 8. Manuals
 - T/D 8.1. A/C Maintenance Manual
 - T/D 8.2. Cabin service
 - T/D 8.3. Cargo
 - T/D 8.4. Dangerous goods
 - T/D 8.5. De-icing
 - T/D 8.6. Domestic A/C loading
 - T/D 8.7. Environmental
 - T/D 8.8. Fueling
 - T/D 8.9. Ground ops
 - T/D 8.10. Int'l A/C loading
 - T/D 8.11. Manual interfaces
 - T/D 8.12. Passenger/customer service
 - T/D 8.13. Safety
 - T/D 8.14. Security
 - T/D 8.15. Super tug ops
 - T/D 8.16. Others, specify _____
- T/D 9. MEL/DMP/CDL (Minimum Equipment List/Dispatch Maintenance Procedure/Configuration Deviation List)
- T/D 10. NOTOC (Notice to Captain)
- T/D 11. NOTAMS (Notice to Airmen)
- T/D 12. Pilots weight and balance documents
- T/D 13. Security directive
- T/D 14. Weather briefing
- T/D 15. Other documents, specify _____

T/E. Ground Based (e.g., abnormal, incorrect, inappropriate)

- T/E 1. Airport marking/signage
- T/E 2. Awkward parking space
- T/E 3. Airport construction
- T/E 4. Bags/Cargo on ramp
- T/E 5. Crowded A/C clearance zones
- T/E 6. Congestion
 - T/E 6.1. Equipment parking
 - T/E 6.2. Traffic path
- T/E 7. FOD
- T/E 8. GSE availability problems
- T/E 9. GSE interface/design problems
- T/E 10. GSE staging problems
- T/E 11. Hard surfaces, steps, handrails have potential trip hazards
- T/E 12. Lighting is not adequate for night time operations
- T/E 13. Poor lighting/restricted visibility
- T/E 14. Poor right-of-way/crowded aircraft clearance zones
- T/E 15. Ramp markings (e.g., taxi lines) not clearly identified or in poor condition
- T/E 16. Ramp condition
- T/E 17. Ramp slope
- T/E 18. Taxi slope
- T/E 19. Unusual disturbance/distraction
- T/E 20. Other equipment/ground based threat, specify _____

T/F. Human Factors

- T/F 1. 1st half of shift
- T/F 2. 1st shift after extended absence (e.g., time-off, vacation, sickness)
- T/F 3. Body size/strength
- T/F 4. Complacency
- T/F 5. Distraction/interruption
- T/F 6. Fatigue
- T/F 7. Ineffective norms and shortcuts (i.e., routine violations)
- T/F 8. Knowledge/skills/experience level
- T/F 9. Lack of assertiveness
- T/F 10. Lack of teamwork
- T/F 11. Last half of shift
- T/F 12. Other personnel
- T/F 13. Overtime
- T/F 14. Second/third job
- T/F 15. Shift/day swap
- T/F 16. Situational awareness
- T/F 17. Work practices (non compliance)
- T/F 18. Workload
- T/F 19. Other human factors, specify _____

T/G. Operational

- T/G 1. Coded operation days (Yellow / Red)
- T/G 2. Early/unexpected or late gate changed arrival
- T/G 3. Decision making/planning
- T/G 4. Delays
 - T/G 4.1. ATC/ground control
 - T/G 4.2. Cabin crew
 - T/G 4.3. Customer service
 - T/G 4.4. Flight crew
 - T/G 4.5. Maintenance
 - T/G 4.6. Weather
 - T/G 4.7. Ramp crew
 - T/G 4.8. Fuel
 - T/G 4.9. Other delays, specify _____
- T/G 5. Flight crew induced
 - T/G 5.1. Fast taxi
 - T/G 5.2. Jet blast
 - T/G 5.3. Ignoring hand signals
 - T/G 5.4. Improper position
- T/G 6. Ground loading passengers (RJ, international)
- T/G 7. Lack of resources
- T/G 8. Late bags/cargo or passengers
- T/G 9. Last minute removal or bags/cargo or passengers
- T/G 10. Nonstandard fueling operation/reconfiguration
- T/G 11. Not regular work area
- T/G 12. Not regular work crew
- T/G 13. Operational-Unscheduled (ferry, extra section)
- T/G 14. Operations-high volume
- T/G 15. Operations-irregular (IROP)
- T/G 16. Perceived time pressure
- T/G 17. Procedure-new
- T/G 18. Procedure-non standard/special
- T/G 19. Scheduling
- T/G 20. Security, specify _____
- T/G 21. Severe weather operation
- T/G 22. Staffing shortages
- T/G 23. Other operational threats, specify _____

T/H. Leadership & Commitment

- T/H 1. Change of supervision/management
- T/H 2. Documented regular safety briefings (toolbox talks) are not held
- T/H 3. Formal safety meeting with minutes are not routinely held
- T/H 4. Frontline management does not actively participate in health and safety activities
- T/H 5. Lack of supervision
- T/H 6. Management does not set an example by wearing the required PPE themselves
- T/H 7. Safety awareness is poorly promoted
- T/H 8. Supervision does not enforce the rules
- T/H 9. Other leadership & commitment threats, specify _____

T/I. Environmental Threats (one or more of the following condition was present)

- T/I 1. Dust
- T/I 2. Electrical storm
- T/I 3. Fog
- T/I 4. Hail
- T/I 5. High winds
- T/I 6. Rain
- T/I 7. Sand Storm
- T/I 8. Snow/Ice
- T/I 9. Tornado/hurricane etc.
- T/I 10. Very cold temperatures (low wind chill)
- T/I 11. Very hot temperatures (high heat index)
- T/I 12. Winter storm
- T/I 13. Other environmental threats, specify _____

Acronyms:

A/C – Aircraft

ATC – Air Traffic Control

FOD – Foreign Object Debris

GSE – Ground Safety Equipment

GPU – Ground Power Unit

IROP – Irregular Operations

LOSA – Line Operation Safety Assessment

MEL/DMP/CDL – Minimum Equipment List/Dispatch Maintenance Procedure/Configuration Deviation List

NOTAMS – Notice to Airmen

NOTOC – Notice to Captain

PPE – Personnel Protective Equipment

RJ – Regional Jets

TBL – Towbar Less Tractor

ULD – Unit Load Device