Runway Incursions

Causal Categories

- **Aircraft**
  - Pilot
  - ATC

- **Vehicle or Pedestrian**
  - Unlicensed/untrained
  - Licensed/trained
    - Driver/Pedestrian
    - ATC
Runway Incursions

Fishbone Diagram

Veh/Ped (Unlicensed)

Access Security

Given Unauthorized Access

Signage

Communications

Training

Proficiency

Familiarity

Wrong Freq.

Phraseology

Communications

Phraseology

Readback

AELP/Comprehension

Runway Incursions

ACFT (ATC)

ACFT (Pilot)

Situational Awareness

Task Focused

Signage

Distractions

Unfamiliar

Communications

Phraseology

Readback/Hearback

Intra-Facility Coordination

Distr

Situational Awareness

Memory Aids

Distractions

Communications

ACFT (ATC)
Runway Incursions

Tower Traffic Management Board (TMB)

• The TMB is a magnetic dry-erase board with a graphical overlay of the airport and other aids. The TMB is used to assist the Local Controller with tracking aircraft identities, sequencing aircraft, and meeting FAA tower memory aid requirements.

• TMB “chips” are magnetic strips which can be written on with dry-erase markers. They are colored according to their function or purpose and are used to represent aircraft, vehicles, personnel or the status of a movement area.

• Procedures for use are covered in a facility Standard Operating Procedure.
Runway Incursions

Tower Traffic Management Board (TMB)
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Tower Traffic Management Board (TMB)

- Situational Awareness for entire cab, not just Local Control position
  - Use of color coded TMB “chips” allows for rapid awareness of runway occupancy by vehicles and pedestrians
  - Everyone is aware when aircraft are cleared to land, takeoff, etc.
  - Unmistakable visual indication of closed movement areas
- Easier to use and less distracting than memory pads
Runway Incursions

Pedestrians and Vehicles – Licensed

• Training should always include tower familiarization visits
  • Provides a valuable perspective for pedestrians/drivers which cannot be obtained any other way.
  • Reduces driver/pedestrian barriers to communication with Tower
  • Helps controllers understand the needs of the driver/pedestrian