AIR – GROUND COMMUNICATION

SIRM- WEST AFRICA 2024
DEFINITION

Two-way communication between aircraft and stations or locations on the surface of the earth.

-ICAO Annex 10 – Aeronautical Communication
CLASSIFICATIONS ARE BROKEN INTO:

**VOICE**
- UHF
- VFH
- HF

**DATA**
- ACARS
- CPDLC
- ADS-B/C
- TRANSPONDER MODE S

**VISUAL**
- AIRPORT BEACON
- PAPI/VASI
- ALS/TAXI LIGHTS
- FLARES/PYROTECHNICS
WHY DO THINGS GO WRONG?
COMMUNICATION ERRORS INCLUDE:

- Human factors
- Language and communication
- Non-standard phraseology
- Building situational awareness
- Frequency congestion
- Omission of call sign
- Inadequate read back
- Failure to correct faulty read back
- Expectations
- Failure to question instructions
- Failure to request clarification
- Taking another aircraft’s clearance/instruction
- Blocked/simultaneous transmission
- Loss of communication
- Filtering communications
- Controller on second frequency
- Controller on landline
AIR ACCIDENTS DUE TO COMMUNICATION ERRORS

TENERIFE AIR DISASTER - KLM/PANAM - 1977

FLYING TIGER FLIGHT 66(FEDEX) - 1989

UPS 1354 BIRMINGHAM - 2013
MITIGATION MEASURES

• Standard Phraseology
• ICAO language (Aviation English)
• Hear back – Readback
• Enunciation/pronunciation/tone
• Use of Keywords – Level, Heading
• Alphanumeric call signs
• Seek clarification
• CPDLC utilization
• IFBP use (In Flight Broadcast Procedure)
• ADS-B /C integration
• Prompt reporting of miscommunication challenges
• Maintenance of Navaids/Airport Infrastructure
HOMEWORK:

Youtube:

Mentour pilot - DEADLY Attitude! The truly shocking story of Pakistan Airlines 8303
Amy V Kiiru
Safety Manager Kenya Airways
Amyvivian.Kiiru@kenya-airways.com
P: +254 741 777 279
M: +254 705 805 388