Agenda

- Mission and Priorities
- ADFSD Workload
- 4 Phase 92R AIT
- Course Training Loads
- Key Systems
- MRB Purpose
- Definitions: Malfunction and Incident
- MRB 157th S/L, MFF and Equipment Malfunctions Analysis Results
- MRB FY 17 and 18 S/L, MFF and Equipment Malfunctions Analysis Results
- Point of Contacts
- Questions
ADFSD Mission & Priorities

ADFSD Mission
Train members of all branches of the Armed Services, allied nations and Civilians as Parachute Riggers, Airdrop or Sling Load inspectors, and Shower and Laundry Specialist. Develop doctrine support materials and perform proponency functions related to aerial delivery and field services.

ADFSD PRIORITIES

1. Student Training
   - Relevant, Rigorous POI
   - Well resourced
   - Safety

2. Operational Support
   - Timely Doctrine Updates
   - Readiness (MRB, AAB, SAV)
   - Integration w/ partners

3. Cadre Readiness
   - Technical training
   - Resiliency
   - Family time

Focus Areas
- Systems & Processes
- Trust & Relationships
- Effective Communication
- Accountability & Maintenance
- Safety

Goal
Constantly Improve: our products, our community, and ourselves.

Support Starts Here!
ADFS Workload

1. Training Load
   - 92S AIT
   - ADMOC
   - SLICC
   - ALIC
   - BOLC
   - QMSTX
   - MTTs

2. INTEGRATION & Sustainment Training
   - RA-1 NET
   - MC-6 NET
   - PRO Pack
   - JPADS 10K NET
   - ALVADS-TM

3. Aerial Delivery Community
   - MRB - AR 59-4
   - Malf Reports
   - Flash Reports
   - POMPOC
   - AAB

4. Staff Assistance Visits (SAV) -- AR 750-32
   - AC
   - USAR
   - USANG
   - RFI's
   - Malf Investigations

5. Force Design
   - CNA PAT
   - CSC
   - BADSC
   - MARC Study

6. Cadre Readiness
   - NCOES
   - Resiliency
   - JM Training
   - FRG

7. Proponency -- AR 750-32
   - Branch Manager
   - Blackboard
   - TWI
   - 92R Credentialing

8. Doctrine Support
   - Product Development
   - 24 Technical Manuals - TR 25-36
   - ATP/AR Review
   - 92R/92S CTSD
   - Urgent Revision (Interim) Procedures

UNCLASSIFIED

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4 Phase 92R AIT

- USA/USAF/USMC
- 25 TNG days
- Cargo Parachute Systems
- Cargo Parachute Releases
- Type V platforms
- CDS
- JPADS 2K

- USA/USAF/USMC
- 17 TNG days
- Maintenance
- T-11R
- MC-6

Ph 1
Air Drop

Ph 2
Pack & Maint.

Ph 4
T-11 & QMFTX

Ph 3
RAM Air & POM

- USA Only
- 11 TNG days
- T-11
- QMFTX
- USA/USMC Graduation

USA/USAF
16 TNG days
RA-1
Parachutist Oxygen Mask

USMC MMPS = Phase 3 & 4

Support Starts Here!
## Course Training Loads

<table>
<thead>
<tr>
<th>COURSE</th>
<th>Course Length</th>
<th>FY 18 Totals</th>
<th>FY 18 # Classes</th>
<th>FY 19 Projection</th>
<th>FY 19 # Classes</th>
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<td>92R PRC</td>
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<td>501</td>
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<td>7</td>
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<td><strong>TOTAL</strong></td>
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<td><strong>2,738</strong></td>
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Key Airdrop Systems

Personnel Parachute Equipment

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<th>Equipment</th>
<th>Quantity</th>
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<tr>
<td>T-11</td>
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<td>MC-6</td>
<td>291</td>
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<tr>
<td>AEBP</td>
<td>43</td>
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<tr>
<td>RA-1</td>
<td>24</td>
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<tr>
<td>POM</td>
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Cargo Parachute Equipment

<table>
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<th>Equipment</th>
<th>Quantity</th>
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<td>G-11</td>
<td>53</td>
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<tr>
<td>G-12</td>
<td>31</td>
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<td>26ft HV</td>
<td>25</td>
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<tr>
<td>JPADS 2k</td>
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<tr>
<td>JPADS 10k</td>
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Future Aerial Delivery Equipment

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<tr>
<td>G-15</td>
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<tr>
<td>G-16</td>
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<tr>
<td>PFD</td>
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MRB Description and Purpose

Purpose

Board’s charter - identify actions and processes required to reduce malfunctions through DOTMLPF analysis. Through education and Doctrine process, revise and update technical Aerial Delivery (AD) rigging and logistic information and improve joint relations through lessons learned.

Concept of Operations

conduct MRB to:
- Host Army, Navy, Air Force, Marine Joint Key Stakeholders. All Services Safety Centers, DA-G-4, TRADOC, XVIII ABN Corps, USASOC, Army Airborne Board (AAB), Program Manager, Natick RDT&E, DA Civilian & Industry representatives for a joint services forum on Aerial Delivery (AD) and malfunction issues.
- Reduce Malfunctions Through Analysis and Education
- Pass Along Technical Rigging and Logistic Information
- Improve Joint Relations via Dialogue & Share Information

Next MRB:

- 26- 28 FEB 19 (158th)          - 25-27 JUN 19 (159th)        - 29- 31 OCT 19 (160th)
DEFINITIONS (AR 59-4)

Malfunction is defined as “the failure of an airdrop item or component of an airdrop system to function as it was intended or designed,” whether the equipment failed because of human error or emergency procedures used.

Incident is defined as any “procedure that prevented the successful completion of any planned airdrop operation.” Some examples of airdrop incidents include, but are not limited to, towed jumpers (cutaway or retrieved), dual deployments of parachutes, entanglements resulting in reserve parachute deployment, and inadvertent automatic activation device actuations.

Note:
All incidents or malfunctions that happened to a parachutist, heavy drop load or a container delivery system bundle will be reported to Aerial Delivery and Field Service Department (ADFSD) using DD Form 1748–2, (normally) as per guidance under AR 59-4, the Senior 921A unit SME reviews the report prior to submission to the USAQMS.
## MRB 157th S/L Malfunctions Analysis Results

<table>
<thead>
<tr>
<th>Total Dropped</th>
<th>Malfunctions (23)</th>
<th>Incidents in Operational Force (65)</th>
<th>Incidents in Basic Airborne Course (50)</th>
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<tbody>
<tr>
<td>53,697</td>
<td>Broken Control Lines (17)</td>
<td>Entanglements (24)</td>
<td>Entanglements (8)</td>
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<td></td>
<td>Corner-vent inversions (4)</td>
<td>Line Twist (19)</td>
<td>Line Twist (40)</td>
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<td></td>
<td>Hung Slider (1)</td>
<td>Reserve Activations (15)</td>
<td>Reserve Activations (1)</td>
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<tr>
<td></td>
<td>Main parachute Damage (1)</td>
<td>Static Line (4)</td>
<td>Hung Slider/line twist (1)</td>
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<td></td>
<td>PLF related (2)</td>
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<tr>
<td></td>
<td>Equipment Worn (1)</td>
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# MRB 157th MFF Malfunctions Analysis Results

<table>
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<th>Incidents</th>
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<tbody>
<tr>
<td>22,088</td>
<td>25</td>
<td>14</td>
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<tr>
<td></td>
<td>Line over (11)</td>
<td>Toggles not fully unstowed (3)</td>
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<tr>
<td></td>
<td>Hung slider (5)</td>
<td>Suspension line twists (3)</td>
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<td>Pilot chute hesitation (3)</td>
<td>AOD activations (2)</td>
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<tr>
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<td>Suspension line twist/tension knots (3)</td>
<td>Obstacle collision/PLF incident (2)</td>
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<tr>
<td></td>
<td>Bag lock (1)</td>
<td>Incorrect body position (1)</td>
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<tr>
<td></td>
<td>Reserve activation (1)</td>
<td>High altitude entanglement (1)</td>
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<td></td>
<td>Main canopy damage (1)</td>
<td>Reserve activation (1)</td>
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<td>Horseshoe (1)</td>
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## MRB 157th Equip Malfunctions Analysis Results

<table>
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<th>Incidents</th>
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<tr>
<td>3,799</td>
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<td>9</td>
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<tr>
<td></td>
<td>M-1 (6)</td>
<td>Cargo parachutes (3)</td>
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<tr>
<td></td>
<td>M-2 (2)</td>
<td>Static line (2)</td>
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<tr>
<td></td>
<td>EFTC (3)</td>
<td>Aircraft locks (1)</td>
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<td></td>
<td>Aircraft locks (3)</td>
<td>Extraction parachute (1)</td>
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<td></td>
<td>Cargo parachutes (3)</td>
<td>Release gate (1)</td>
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<td>Container (2)</td>
<td>Container (1)</td>
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<td></td>
<td>Suspension slings (1)</td>
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## FY 17-18 S/L Malfunctions Analysis Results

<table>
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<th>Incidents</th>
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<tr>
<td>FY 17: 196,277</td>
<td>44</td>
<td>178</td>
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<tr>
<td>FY 18: 172,405</td>
<td>49</td>
<td>260</td>
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*Note: All malfunctions and Incidents are less than 0.1% of total airdrops*
<table>
<thead>
<tr>
<th>Total Dropped</th>
<th>Malfunctions</th>
<th>Incidents</th>
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<tbody>
<tr>
<td>FY 17: 66,714</td>
<td>84</td>
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<tr>
<td>FY 18: 65,261</td>
<td>71</td>
<td>33</td>
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## FY 17-18 Equip Malfunctions Analysis Results

<table>
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<th>Total Dropped</th>
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<th>Incidents</th>
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<tr>
<td>FY 17: 10,852</td>
<td>61</td>
<td>13</td>
</tr>
<tr>
<td>FY 18: 7,221</td>
<td>76</td>
<td>13</td>
</tr>
</tbody>
</table>

*Support Starts Here!*
ADFSD Points of Contact

**Director:**
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