CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

FY18 MISHAPS/MISHAP RATE: 11/1.31
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 9.10/1.03

*see last slide for definition of UCI/LCI
CLASS A AVIATION MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
- FY18 MISHAPS/MISHAP RATE: 16/1.90
- 10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 11.80/1.34

31-Oct-18 3/3.96
31-Oct-17 1/1.28

*see last slide for definition of UCI/LCI
CLASS A AFLOAT MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

FY18 MISHAPS/MISHAP RATE: 4/1.29

10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 5.50/1.78

*see last slide for definition of UCI/LCI*
CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

- 31-Oct-18: 0/0.00
- 31-Oct-17: 1/3.35

FY18 MISHAPS/MISHAP RATE: 2/0.57
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 3.60/1.03

*see last slide for definition of UCI/LCI*
### PHYSICAL TRAINING FATALITIES

#### FATALITIES/FATALITY RATE FY COMPARISON:

<table>
<thead>
<tr>
<th>Year</th>
<th>Fatality Numbers</th>
<th>Fatality Rate</th>
</tr>
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<tbody>
<tr>
<td>2009</td>
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<tr>
<td>2019</td>
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</table>

#### FY18 FATALITIES/FATALITY RATE:

<table>
<thead>
<tr>
<th>Year</th>
<th>Fatality Numbers</th>
<th>Fatality Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-Oct-18</td>
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<td></td>
</tr>
<tr>
<td>31-Oct-17</td>
<td>0/0.00</td>
<td></td>
</tr>
</tbody>
</table>

#### 10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE:

<table>
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<tr>
<th>Year</th>
<th>Fatality Numbers</th>
<th>Fatality Rate</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

*see last slide for definition of UCI/LCI
CLASS A ON-DUTY MV MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:

FY18 MISHAPS/MISHAP RATE: 0/0.00
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 1.30/0.37

*see last slide for definition of UCI/LCI
TOTAL CLASS A ON-DUTY MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
FY18 MISHAPS/MISHAP RATE: 24/6.84
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 25.30/7.23

31-Oct-18 31-Oct-17
4/13.42 2/6.71

*see last slide for definition of UCI/LCI
ON-DUTY FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY18 FATALITIES/FATALITY RATE: 15/4.27
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 12.60/3.60

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<tr>
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<th>Fatality Rate</th>
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<tr>
<td>2019</td>
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<td></td>
</tr>
</tbody>
</table>

31-Oct-18: 0/0.00  31-Oct-17: 2/6.71

*see last slide for definition of UCI/LCI
CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY18 FATALITIES/FATALITY RATE: 30/8.55
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 32.50/9.30

*see last slide for definition of UCI/LCI
4-WHEEL PMV FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY18 FATALITIES/FATALITY RATE: 15/4.27
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 13.80/3.94

pedestrian fatalities not included

*see last slide for definition of UCI/LCI
MOTORCYCLE PMV FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY18 FATALITIES/FATALITY RATE: 14/3.99
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 15.90/4.55

31-Oct-18: 0/0.00
31-Oct-17: 0/0.00

*see last slide for definition of UCI/LCI
OFF-DUTY/REC FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY18 FATALITIES/FATALITY RATE: 10/2.85
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 9.30/2.66

*see last slide for definition of UCI/LCI
LOST WORK DAY FY RATE COMPARISON:

FY17 LOST WORK DAY RATE: 21.40

5-YEAR AVERAGE (FY13-17) LOST WORK DAY RATE: 24.50

5-YEAR AVERAGE (FY13-17) LOST WORK DAY RATE: 25.77

*see last slide for definition of UCI/LCI
MILITARY LOST TIME CASE RATE

Lost Work Time Case Rate: 2.18
FY17 Lost Time Case Rate: 2.26
5-Year Average (FY13-17) Lost Time Case Rate: 2.12

*see last slide for definition of UCI/LCI
CLASS A FLIGHT MISHAPS
Manned Aircraft Only

CLASS A FM/FM RATE FY COMPARISON:
FY18 MISHAPS/MISHAP RATE: 5/2.10
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 6.50/2.49
### CLASS A AVIATION MISHAPS

#### FY18 MISHAPS/MISHAP RATE:

- **31-Oct-18**: 0/0.00
- **31-Oct-17**: 1/4.85

#### FY18 MISHAPS/MISHAP RATE:

- **6/2.51**

#### 10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE:

- **7.90/3.00**

---

<table>
<thead>
<tr>
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<th>Rate UCI*</th>
<th>Rate LCI*</th>
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</tr>
</tbody>
</table>

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*Rate UCI*: Upper Confidence Interval

*Rate LCI*: Lower Confidence Interval
CLASS A GROUND ON-DUTY MISHAPS

Mishap Numbers
Mishap Rate
Rate UCI*
Rate LCI*

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
FY18 MISHAPS/MISHAP RATE: 4/2.09
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 6.20/3.04

31-Oct-18 31-Oct-17
0/0.00 1/6.14

*see last slide for definition of UCI/LCI
PT fatalities are also reflected in the Ground On-Duty Mishap slide.

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
- FY18 FATALITIES/FATALITY RATE: 3/1.57
- 10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 1.60/0.80

*see last slide for definition of UCI/LCI
CLASS A ON-DUTY MV MISHAPS

- **CLASS A MISHAPS/MISHAP RATE FY COMPARISON:**
  - **FY18 MISHAPS/MISHAP RATE:** 0/0.00
  - **10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE:** 4.00/1.95

*see last slide for definition of UCI/LCI*
TOTAL CLASS A ON-DUTY MISHAPS

CLASS A MISHAPS/MISHAP RATE FY COMPARISON:
FY18 MISHAPS/MISHAP RATE: 10/5.22
10-YEAR AVERAGE (FY09-18) MISHAPS/MISHAP RATE: 18.10/8.94

*see last slide for definition of UCI/LCI
ON-DUTY FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY17 FATALITIES/FATALITY RATE: 9/4.70
10-YEAR AVERAGE (FY08-17) FATALITIES/FATALITY RATE: 18.10/8.96

*see last slide for definition of UCI/LCI
CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY18 FATALITIES/FATALITY RATE: 30/15.66

10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 33.60/16.60

*see last slide for definition of UCI/LCI
CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY18 FATALITIES/FATALITY RATE: 15/7.83
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 17.00/8.33

*see last slide for definition of UCI/LCI
MOTORCYCLE PMV FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:

FY18 FATALITIES/FATALITY RATE: 13/6.78
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 13.90/6.92

31-Oct-18 1/6.14
31-Oct-17 1/6.14

*see last slide for definition of UCI/LCI
OFF-DUTY/REC FATALITIES

CLASS A FATALITIES/FATALITY RATE FY COMPARISON:
FY18 FATALITIES/FATALITY RATE: 8/4.17
10-YEAR AVERAGE (FY09-18) FATALITIES/FATALITY RATE: 8.80/4.31

31-Oct-18  1/6.14
31-Oct-17  1/6.14

*see last slide for definition of UCI/LCI
CIVILIAN LOST WORK DAY

Lost Work Day FY Rate Comparison:
- FY17 Lost Work Day Rate: 29.20
- 5-Year Average (FY13-17) Lost Work Day Rate: 24.16

Lost Days/100 Persons per Year

Lost Days

Lost Day Rate

Rate UCI*

Rate LCI*

Lost Days

Number

Lost Days/100 Persons per Year

0 10 20 30 40 50 60 70 80

0 1000 2000 3000 4000 5000 6000 7000 8000

08 09 10 11 12 13 14 15 16 17 18

Lost Days

Lost Day Rate

Rate UCI*

Rate LCI*

23 Jun 18

Lost Work Day FY Rate Comparison:
- FY17 Lost Work Day Rate: 29.20
- 5-Year Average (FY13-17) Lost Work Day Rate: 24.16

*see last slide for definition of UCI/LCI
MILITARY LOST TIME CASE RATE

Lost Work Time Case Rate: 2.82
FY17 Lost Time Case Rate: 2.92
5-Year Average (FY13-17) Lost Time Case Rate: 2.60

*see last slide for definition of UCI/LCI.
Navy Short Narratives

- **USN AVIATION CLASS A MISHAPS** (includes UAS/UAV, FRMs and AGMs not included in the Flight Slide)
  
  24 Oct 2018: (Jacksonville Op Area) MH60R ALFS Transducer Assembly departed aircraft while performing maintenance dip. (FRM)
  
  18 Oct 2018: (Pacific Ocean) MH-60R crashed on takeoff onboard CVN.
  
  09 Oct 2018: (Kadena AFB, Japan) Two HH-60H helicopters taxied into each other on the taxi ramp. No injuries. (AGM)
  
  04 Oct 2018: (NAS Lemoore, CA) A right engine fire occurred on a F/A-18F during a training flight. Emergency landing with no injuries.

- **USN AFLOAT CLASS A MISHAPS**
  
  22 Oct 2018: (Off the Coast of Iceland) Landing Craft Units in well deck were damaged during heavy seas.

- **USN SHORE CLASS A MISHAPS**
  
  No mishap this FY.

- **USN PHYSICAL TRAINING CLASS A MISHAPS**
  
  No mishap this FY.

- **USN ON-DUTY MOTOR VEHICLE CLASS A MISHAPS**
  
  No mishap this FY.

- **USN PRIVATE MOTOR VEHICLE FATALITIES**
  
  28 Oct 2018: (Virginia Beach, VA) E-3 passenger died in an automobile mishap after he was ejected.

- **USN OFF-DUTY/RECREATIONAL FATALITIES**
  
  No mishap this FY.
Marine Corps Short Narratives

- **USMC AVIATION CLASS A MISHAPS (includes UAS/UAV, FRMs and AGMs not included in the Flight Slide)**
  No mishap this FY.

- **USMC GROUND CLASS A MISHAPS**
  No mishap this FY.

- **USMC PHYSICAL TRAINING CLASS A MISHAPS**
  No mishap this FY.

- **USMC ON-DUTY MOTOR VEHICLE CLASS A MISHAPS**
  No mishap this FY.

- **USMC PRIVATE MOTOR VEHICLE FATALITIES**
  19 Oct 2018: (Richlands, NC) E-3 died in a motorcycle mishap on his way to work.
  12 Oct 2018: (Snyder, TX) E-1 died in a multi-vehicle automobile mishap.

- **USMC OFF-DUTY/RECREATIONAL FATALITIES**
  20 Oct 2018: (Havelock, NC) E-3 died when his weapon accidently discharged while he was cleaning it.
Mishap Confidence Interval

- UCI = Upper Confidence Interval     LCI = Lower Confidence Interval

- Rate values above the UCI or below the LCI infer a statistically significant change is probable. This is only an indicator. Significance cannot be determined until end-of-year.

- Values between the UCI and LCI infer that nothing significant has occurred to increase or decrease mishap rate.

(Confidence Interval is based on: Poisson Rate related to a Chi Squared Distribution and calculated using FY14-18 data except for the Lost Work Days and Lost Time Case slides which were based on a normal distribution).