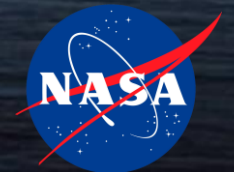


John C. Stennis Space Center Test Complex Table Top Exercise for Emergency and Mishap Reporting



*Prepared by Robert Southers
SSC Interim Response Team Lead*





Objectives

AGENDA/TOPICS

- OBJECTIVES
- WHAT IS A MISHAP?
- NOT EVERY INCIDENT IS A MISHAP
- MISHAP NOTIFICATION
- PEOPLE TO KNOW
- SCENARIOS
- CONCLUSION
- Q&A

- Provide a clear definition of a mishap and a close call
- Define the mishap and close call reporting processes
- Ensure employees are comfortable reporting an incident





What is a Mishap?

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A **MISHAP** is an unplanned **EVENT** that results in at least one of the following:

- Occupational injury or illness caused by NASA Operations
- Destruction or damage to property (public or private) caused by NASA Operations or NASA-funded R&D projects
- NASA mission failure before the scheduled mission completion

Mishaps are classified by severity:

TYPE A

Fatality,
Total Permanent Disability,
Mission Failure,
Property Damage of \$2M or more

TYPE B

Injury – Partial Disability,
Hospitalization of 3 or More People, Cost of Mission Failure and Property Damage of $\$500K \leq X < \$2M$

TYPE C

Injury Resulting in Days Off Job,
Hospitalization of 1 or 2 People,
Cost of Mission Failure and Property Damage of $\$50K \leq X < \$500K$

TYPE D

OSHA Recordable Injury not Meeting Definition of Type C,
Cost of Mission Failure and Property Damage of $\$20K \leq X < \$50K$



What is a Mishap?

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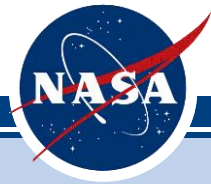
A **CLOSE CALL** is an **EVENT** in which there is:

- No injury or only minor injury requiring first aid
- Equipment or property damage of less than \$20K
- Potential to cause a mishap

A **HIGH VISIBILITY MISHAP OR CLOSE CALL** is any mishap or close call which possesses a high degree of safety risk, programmatic impact or public, media, or political interest

Who makes this determination?

- NASA Administrator
- Chief of the Office of Safety & Mission Assurance (OSMA)
- SSC Center Director (CD)
- SSC Safety & Mission Assurance (SMA) Director



Not Every Incident is a Mishap

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Close Calls: NMIS vs CCRS

NASA Mishap and Information System (NMIS)

- A **NMIS Close Call** is an **EVENT** in which there is no injury or only minor injury requiring first aid, no damage or minor damage (less than \$20,000) to equipment or property or both, but which possesses a potential to cause a mishap

Close Call Reporting System (CCRS)

- A **CCRS Close Call** is a **CONDITION** that may have resulted in an accident, injury, or illness, but due to other factors did not. (NOT A MISHAP)
- ***Why report close calls?*** The best method to PREVENT accidents is to correct hazards before they result in injury, illness, or damage. Reporting close calls gives us a chance to correct these hazards **before an accident occurs.**



Not Every Incident is a Mishap

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The following are not considered mishaps:

- Illness, self-inflicted injuries, or injuries/fatalities resulting from altercations not incurred in the performance of official duties
- Damage to any property resulting from
 - Weather conditions or natural phenomena such as earthquakes, wildfires, etc.
 - Vandalism, riots, arson, etc.
 - The malfunction or failure of an component that has been maintained, but is subject to wear and tear and the failure is limited to the damaged component
- Accidents involving aircraft operated as civil use, owned by civil operators, and accomplishing contract air missions for NASA where there is no NASA property damage or Federal employee injury



Not Every Incident is a Mishap

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Off-Nominal Test Occurrence:

- Test-induced damage is not considered a mishap if all of the following are true:
- The test-induced damage did not result in
 - Injury, illness, or fatality
 - Damage to non-NASA property, regardless of location
 - Hazardous debris leaving the test cell, chamber, pre-determined debris field, protected facility and/or test range
- The facility and test equipment functioned properly (except when function of the facility and/or test equipment themselves are being tested and part of approved test objectives)
- The damage is limited to test article(s) and test facilities, the risk of damage was formally documented, and the risk of the test-induced damage was formally accepted by appropriate authorities



Mishap Notification

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➤ Initial Mishap Notifications:

- Security/Emergency Personnel:



Cell Phone – (228) 688-3636

Landline – 911

- Area Manager / Supervisor
- Contracting Officer Representative (COR)
 - *Only for construction/project related work*
- NASA SMA Representative



Mishap Notification

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When Calling Dispatch:

- Identify yourself
- Define nature of the incident
- State location of the incident
- State degree/extent of any injuries, how many people hurt
- Describe what hazards may be present

If Someone is Injured:

- For minor injuries, bring employee(s) to Building 8000
 - The Clinic is open Monday – Friday, 7:00am – 3:30pm
 - The Fire Department is available 24/7
- For serious injuries, call Dispatch and allow EMS to respond



Mishap Notification

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Notifications

- Beyond notifications to immediate supervisors, all other communications (particularly to the public) are to be handled by the **SSC Center Director** and the **SSC Office of Communications**
- If required, SSC SMA shall notify the Office of Safety and Mission Assurance (OSMA) and / or OSHA, as well as enter the **EVENT** into NMIS or Close Call Reporting Systems

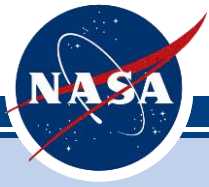


People to Know

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- SSC Emergency Director / Fire AHJ – ***Kenny Volante***
- SSC Emergency Management Coordinator – ***Tcola Cox***
- Fire Department Chief – ***Harry Hooks***
- Occupational Health Officer/Industrial Hygienist – ***Mike Pannell***
- Interim Response Team (IRT):
 - ***Robert Southers (Lead)***
 - ***Truc Le (Deputy)***
 - ***Robert Simmers***
 - ***Elizabeth Calantoni***
 - ***Frank Olinger***



SCENARIO #1

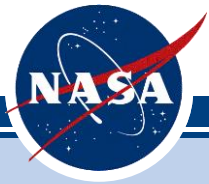
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SCENARIO #1

While moving some tubing, your coworker trips and hits their head on the ground. They stand to their feet and assure you they're ok, but visually they cannot maintain their balance while working.

Is this a mishap?...What do you do???



SCENARIO #2

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SCENARIO #2

A machine begins leaking hydraulic fluid on the ground inside of the high-bay. It's only a few drops and can be easily cleaned up.

Is this a mishap?...What do you do???



SCENARIO #3

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SCENARIO #3

During lunch, you use your pocket knife to cut a piece of an apple, but you accidentally cut your wrist in the process. It's a small cut, but blood begins streaming down your arm.

Is this a mishap?...What do you do???



SCENARIO #4

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SCENARIO #4

You hear a loud noise and investigate where you suspect the noise is coming from. You find pieces of a valve scattered around the area. There are dents and scratches on the surrounding walls and piping.

Is this a mishap?...What do you do???

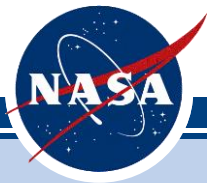


Conclusion

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- There have been lots of times we have been lucky and dodged the “Big One”.
- To be successful, we must report and investigate our failures and close calls so that the root cause can be identified and corrective actions worked to prevent future occurrence.
- When in doubt, report any suspected incidents or hazardous conditions.



Questions & Answers

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