

# SkyFall



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**Topic Number:** N161-007

**SYSCOM:** Naval Air Systems Command  
(NAVAIR)  
[www.navair.navy.mil](http://www.navair.navy.mil)

**Program Sponsor:** PMA 205

## Other Potential Programs:

Air Force, Army Parachute Descent  
Training

**Current TRL:** 6

**Projected TRL:** 7 / Q1 2023

## Keywords:

Parachute Descent Procedures, Game-  
Based Training, Mixed Reality, Aviation  
Survival Training

Innovation Center at 2022 Navy Gold Coast



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## THE CHALLENGE

Parachute Descent Procedure (PDP) training helps Naval aircrew learn and refresh their skills to properly maneuver a parachute to a safe landing, both over land and over water. This training addresses both standard procedures as well as corrective actions in response to parachute malfunctions. Currently, aviators train PDPs using the “Parachute Descent Virtual Reality Trainer” (Device #S9C4).

## THE INNOVATION

SkyFall is a mixed and virtual reality trainer for PDPs where aviators learn and practice how to safely operate their parachutes after forced ejections and correct possible deployment faults. Suspended in their standard-issue parachute harnesses, SkyFall users execute error recovery and PDPs that are visualized either via a multiple-monitor configuration or through a Virtual Reality headset, depending on the configuration. SkyFall scenarios are easily configured and initiated by instructions via a touchscreen display. Additionally, performance is automatically captured by the system and presented on-screen to the student and instructor immediately after each descent. SkyFall is currently in use for training at multiple Aviation Survival Training Centers and will replace all emergency egress trainers as a procured system in FY23.

## THE NAVY BENEFIT

SkyFall will provide a modern replacement for the Navy’s current PDP trainer at a modest cost footprint.

## THE FUTURE

The Navy is proceeding with a procurement of the SkyFall system during FY23. SoarTech seeks interested stakeholders and partners for new opportunities for training system development and integration, specifically those that have a requirement for embedded artificial intelligence.