

DOD R-TOC (Reducing Total Ownership Cost) Program

Uncovers over \$480 Million per year in potential savings for the Air Force

Saving opportunities:

1. The DOD identified that the difficulty in using the Piddle Pack for in-flight bladder relief, causes aircrew to tactically dehydrate, possibly the greatest overlooked, unreported, preventable and contributing Human Error factor in over \$250 million Class A mishaps per year.
2. The variable cost of the F-15/22 CPFH is \$11,000 per hour and \$7,000 for an F-16. Aircrew that do hydrate take ten minutes or \$1,840 to use a piddle pack. Stopping the use of the piddle packs on 125,000 sorties could save \$230 million a year.
3. Using the Piddle Pack greatly impairs a pilot's ability to fly the aircraft, results in loss of mission effectiveness and safety issues.

The AMXDmax® was certified Safe To Fly and approved as Cockpit Essential Equipment by USAF ACC/A3T in 2014.

"Using a piddle pack when you're trying to fly formation in rough weather, it's damn near an emergency procedure."



"I was able to stay heads up, doing a climbing banking turn using the AMXDmax and not take myself out of mission."

Col. Phil Murdock, F-16 pilot with 3,500 hrs

Solution:

The DOD R-TOC program contracted Omni to **develop the AMXDmax®** (Advanced Aircrew Bladder Relief System) specifically to stop the use of the currently issued "piddle pack".

The AMXDmax® is **aircrew wearable**, automatic, hands free system that allows aircrew to remain buckled, fully hydrated and mission ready without distraction at all times.

Issue	Piddle Pack	AMXDmax
Cost / Sortie F-15/22	\$1,840	\$14.70(M)/\$48.80(F)
Out of Mission time	> 10 Minute	0
Class A Mishaps	> 9	0
Emergency Egress	NO	YES
Hands Free	NO	YES
Maintain SA	NO	YES
Other Issues	Safety	none

DOD R-TOC Program Recommendation

Aircrew using a piddle pack are a mission Liability.

Aircrew using the AMXDmax remain a mission Asset.

Integrate the AMXDmax into Aircrew Flight Equipment with the TSC Through Suit Connector to reduce operating costs, increase pilot performance and reduce the likely hood of future Class A mishaps.

Fiscal Year 2015

1. Make the AMXDmax mandatory Aircrew Flight Equipment for all current USAF and F-35 aircrew providing increased mission effectiveness, improved situational awareness, operational costs savings and reduced number of Class A mishaps.
2. Integrate the AMXDmax into all flight training programs to reduce flight training costs, insure student pilots learn and practice proper hydration and Safety habits and to reduce future class A mishaps.

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