

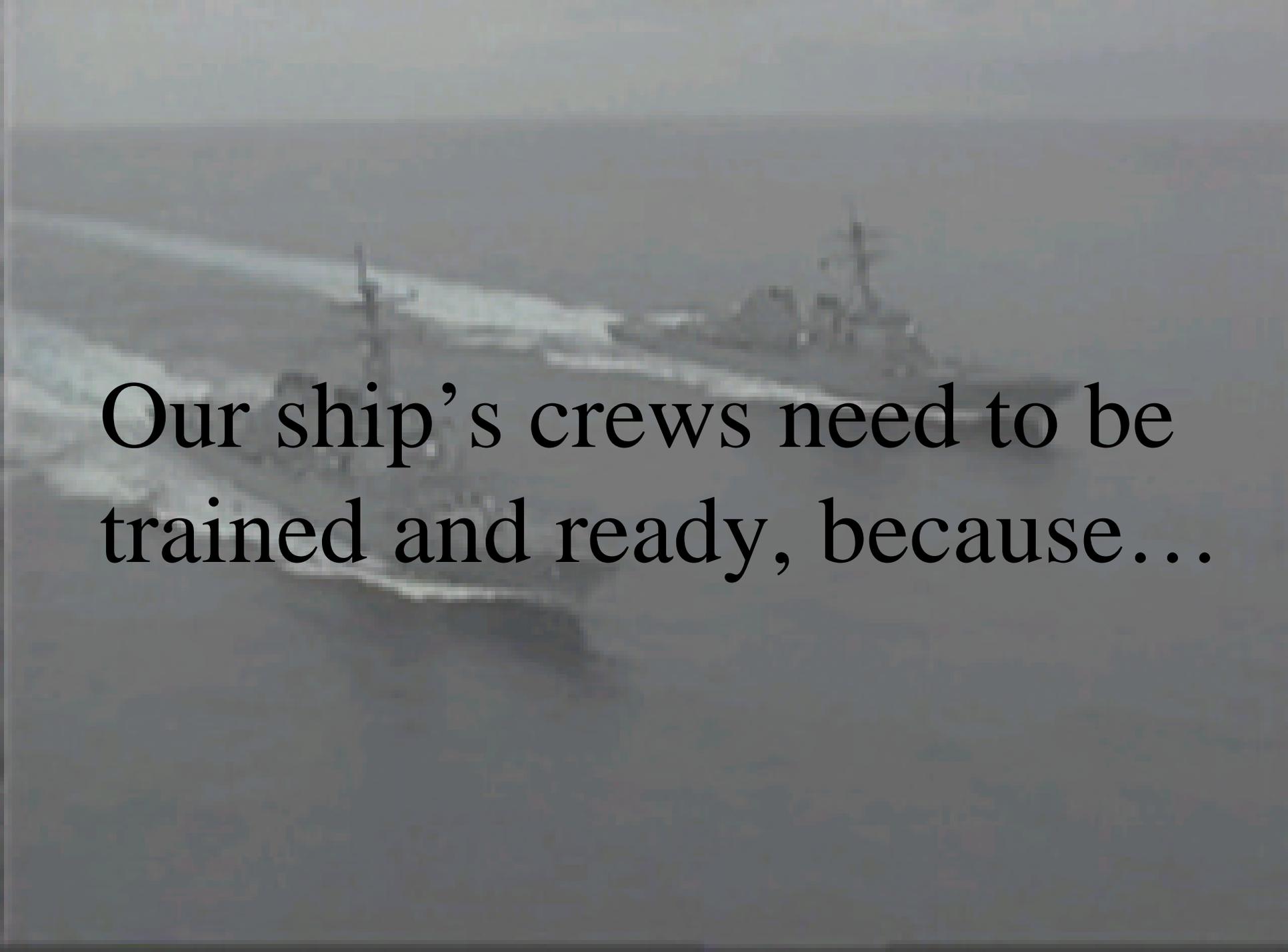
Total Ship Survivability Testing (TSST) Impact On Afloat Training



21 August, 2002

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TSST???

A large, dark-hulled ship is seen from a high-angle perspective, moving across a grey, choppy sea. The ship's wake is visible, and its superstructure, including masts and antennas, is clearly defined against the horizon. The overall scene is desaturated, with a monochromatic palette of greys and blues.

Our ship's crews need to be
trained and ready, because...

...“It” Continues To Happen



USS COLE attacked by terrorists

TSST Impact On Training



- TSST was a great example of the integration of testing and training
- Immediate impact on the readiness of the TSST test crews and many lessons learned
- Long term impact on the way that we train our crews

TSST Impact On Training in USS LABOON

- Overall Readiness greatly improved!
- Total Ship Survivability Big Picture “Mind Set” adopted by the entire crew
- Shipboard Training Teams were rapidly brought up to speed - early integrated approach
- Enabled ship to accelerate training cycle and deploy early!

TSST Impact On Other Test Ships

- USS STOUT - TSST proof in testing
 - USS THE SULLIVANS - Five additional scenarios tested out
 - USS OSCAR AUSTIN - TSST for FLT IIA
- *All COs acknowledged the GREAT training value of these trials

TSST Lessons Learned

- 120 Lessons Learned included in the final report on LABOON's TSST
- Primarily focused on ship design and possible engineering changes
- Many workarounds and the Lessons Learned forwarded to the AEGIS fleet
- USS OSCAR AUSTIN – Report not final

TSST Lesson – Think Big Picture



*Takes teamwork and coordination at all levels to get and keep systems online after taking a hit

Big Picture Lessons (Cont)

- Casualty response and restoration priorities are set by the TAO / CO...and this requires coordination of effort



- Any action taken to contain damage may affect critical systems or mission capabilities (power, chill water, ventilation, dry air, firemain)

Big Picture Lessons (Cont)

- Effective shipwide communications are key to the integrated effort



- Need to train without the availability of primary or secondary comms...or 1MC

Big Picture Lessons (Cont)

- Documentation / information needs to be available to support integrated response



- CSOSS, EOSS, DC procedures must correlate and complement each other to support total ship survivability efforts

Big Picture Lessons (Cont)

- Systems should be aligned for maximum sustainability...not peacetime cruising



- Watch station modifications may be required to support integrated casualty control efforts

TSST Impact on Afloat Training

- Integrated Casualty Control Training is now considered the most effective method of training to ensure ship's survivability
- Integrated Training Team (ITT) created to develop and run Total Ship Survivability exercises
- TSST procedures and considerations are incorporated into the shipboard training team's training

TSST Lessons Applied to ITT Training

- Train like you are going to fight! Train as an integrated team to achieve an integrated response



- ITT must coordinate training planned by the individual training teams and identify integration points in their scenario

TSST Lessons Applied to ITT Training (Cont)

- Correlated damage from each hit needs to be simultaneously imposed across all departments



- Implementation should be realistic as possible and drive crew to respond in an integrated way

TSST Lessons Applied to Afloat Training

- Proper execution of a Total Ship Survivability exercise (TSSE) likely requires more manpower and expertise than exists in the ship's ITT



- ATG Mayport has regenerated it's ability to conduct these Integrated Casualty Control exercises on ships, working with the ship's ITT

TSST Lessons Applied to Afloat Training (Cont)

- ATG Mayport is working with NAVSEA and AEGIS program office to obtain documentation and training devices to enable conduct of TSSEs



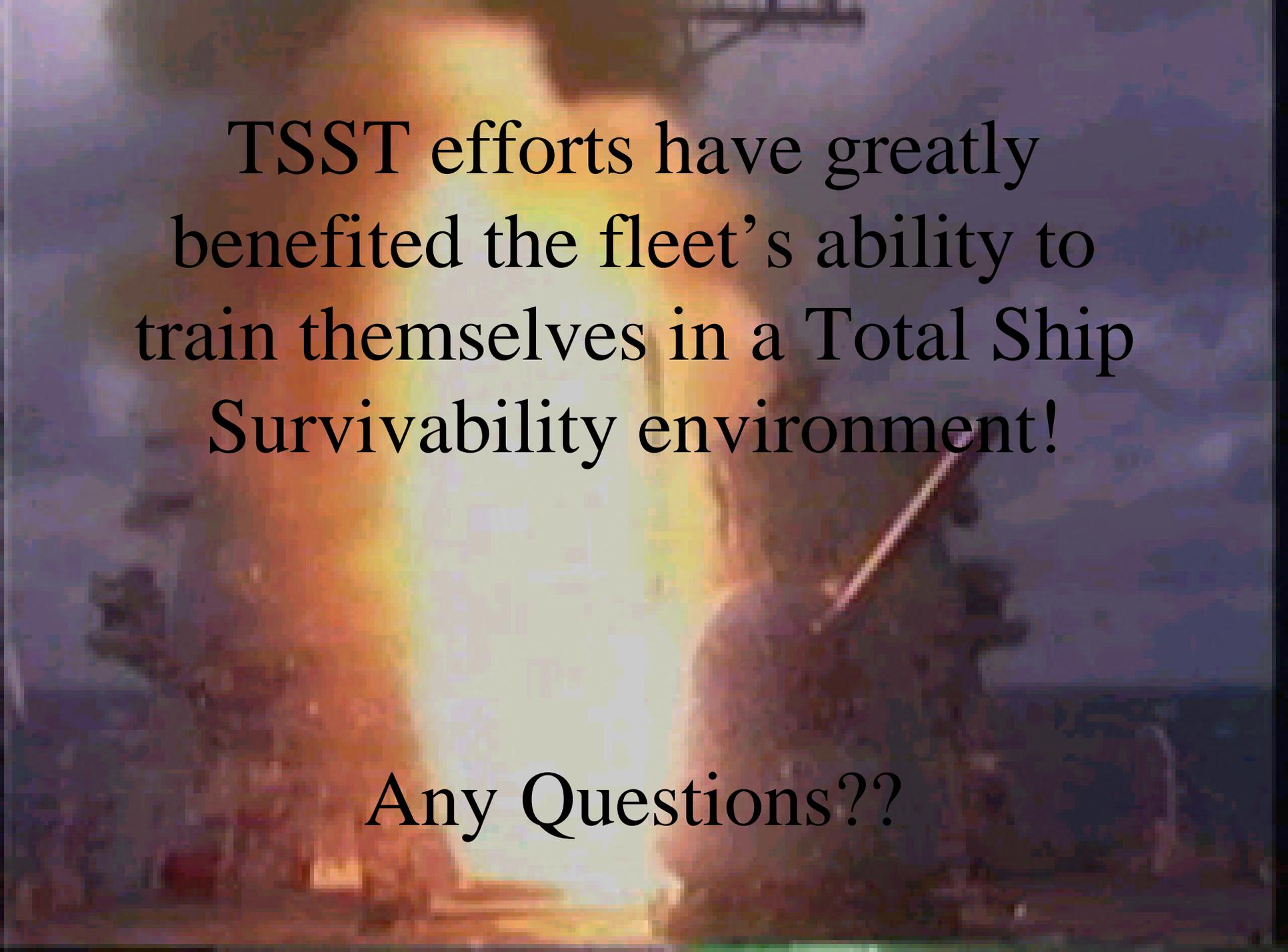
- ATG Mayport will also assist NAVSEA in conducting “COLE-like” casualty control exercises in AEGIS CGs

TSST Lessons Applied to Afloat Training (Cont)

- ATG Mayport will review TSST lessons learned from DDG-79 and incorporate them into ITT training and TSSE exercises



- ATG Mayport is also assisting in the development of standard Integrated training scenarios that will be used during CART & FEP

A dramatic scene of a ship's interior. A large fire is burning brightly in the center, casting a warm glow. In the foreground, a person is seen from the back, looking towards the fire. The background shows the ship's structure and a window looking out onto a dark sea.

TSST efforts have greatly benefited the fleet's ability to train themselves in a Total Ship Survivability environment!

Any Questions??