MK 38 MOD 3 MGS Qualification Status
Presented to
NDIA Armaments Forum
Fredericksburg, Virginia

3 May 2017

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Briefings Outline

- MK 38 MOD 3 Description
- MK 38 MOD 3 Qualification Test
- Key Program Events
- Summary
MK 38 MOD 3 Description

- **MK 38 MOD 3 Components**
  - MK 38 MOD 2 Mount
  - Toplite 2P Sensor
  - MK 38 MOD 2 CU
  - 2 New Cables
  - Main Gun – 25mm M242
  - New Control Console (MFD + MCP)
  - MCU
  - Charger Unit
MK 38 MOD 3 Qualification Tests

- GT-1 Train Performance
- GT-2 Elevation Performance
- GT-3 Ammunition Handling (By Similarity to MK 38 MOD 2)
- GT-5 Remote Safe and Arm
- GT-6 System Safety Demonstration/Inspection
- GT-7 Wave Loading Analysis (By Similarity to MK 38 MOD 2)
- GT-8 Maintenance and Manning (By Similarity to MK 38 MOD 2)
- GT-9 Stabilization (By Similarity to MK 38 MOD 2)
- GT-11 Accuracy (By Similarity to MK 38 MOD 2)
- GT-12 Shipboard Vibration
- GT-13 Shipboard Shock (ROC Only-Lightweight Shock)
- GT-14 Storage Temperature
- GT-15 Operating Temperature
- GT-16 Humidity
- GT-17 Water Intrusion (Drip) (ROC & Battery Charger Only)
- GT-18 Salt Fog (By Similarity to MK 38 MOD 2)
- GT-19 Dust (By Similarity to MK 38 MOD 2)
- GT-21 Reliability and Tactical Life (By Similarity to MK 38 MOD 2)
- GT-22 At-Sea Evaluation (PB-777)
- Human Factors Evaluation

No safety-related issues
At-Sea Tests

- Chesapeake Test Range – MK 38 MOD 3
  - 25-mm M242 Main Gun Tested
- Target - 8’x8’ Stationery Floating Target
- Test Scenario- Maneuvering & Variable Speed (2500 yd – 500 yd)
Key Program Events

• Program Start – Dec 2015
  – USN Safety Board (WSESRB) – Approves Qualification Plan – Jan 2016
• Qualification Testing – Jan 16 – Apr 17
  – Test matrix Include Firing after each Test
  – At-Sea Operational Suitability Test Aboard PB777– Jun & Sept 2016
• Safety
  – WSESRB Concurrence for Shipboard Use – Feb 2017
  – PEO IWS-3C Element Certification – 1 May 2017
• MK 38 MOD 3 -1st Ship Install July 2017
Si Vis Pacem, Para Bellum