

Edward Hlywa

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TECHNICAL ADDENDUM

Selected Publications and Reports

“NDIA Salvo Model for Strike Land Attack and Air Defense SAG v SAG Study,” National Defense Industrial Association, February 2010.

“A Brief Examination of Testing Methodology for Zonal-data (z-data), and an Evaluation of 57mm 3P Ammunition Qualification Arena Test Data,” BAE Systems, January 2009.

“Weapon System Analysis for Nuclear Weapon Security,” Final Report, System Planning and Analysis, Inc., April 2006.

“Mk 110 57mm Gun System Analysis for Extended Area Protection & Survivability (EAPS),” BAE Report, October 2006.

“Candidate Gun Weapon System Design of Experiments,” NSWC Growth Opportunity and Learning Program, co-authored with R. Larson and S. Morris, October 2004.

“Non Lethal Weapons Requirements for Naval Forces – A Possible Solution,” American Society of Naval Engineers, ASNE Day, April 2002.

“Medium Calibre Gun System Operational Performance Analysis – A Joint Simulation Effort of Signaal and United Defense,” Hollandse Signaalapparaten B.V. 1995.

“Accuracy Assessment of 155mm Long Range Artillery Using Alternative Propulsion Techniques,” US Army Human Engineering Laboratory Report, January 1990.

“Investigation of Potential Application of the RIM-116A Rolling Airframe Missile,” FMC Report, October 1989.

“Recursive Fourier Transform for Digital Applications,” Southeastern Symposium on System Theory, March 1979.

Technical Proficiencies

- JMEM Weaponing System (*JWS*)
- Projectile Analysis Design Analysis Systems (*PRODAS*)
- JMEM/A-S, S-S Weaponing Systems (*JAWS JWES*)
- Advanced Joint Effectiveness Model (*AJEM*)
- Joint Mean Area of Effects Model (*JMAE*)
- Naval Simulation System (*NSS*)
- CONWEP *TM 5-855-1*
- MATLAB / Octave / MathCAD / R-S
- Design of Experiments (*DOE*)
- Artillery Effectiveness Model (*ARTQUICK*)

Selected Test Experience

Long Range NGFS Test and NGFS Qualification Exercises aboard CG-66 HUE CITY, Vieques, Puerto Rico, 1994.

NGFS testing aboard DD-980 MOOSEBRUGER, Vieques, Puerto Rico, 1992.

CATFAE DT-1C/G fire control testing, Eglin AFB, Camp Pendleton, Camp Ripley, 1986.

Naval Gun Fire Support Test Director, BB-62 (NEW JERSEY), Republic of the Philippines, 1983.

Meritorious Recognitions

Certificate of Merit National Defense Industrial Association, 2001 and 2009.

United Defense High Impact Employee Incentive Award (20+% salary bonuses) 2005 and 2006.

United Defense recognition award for development of JTTCG/ME models and simulation, 2003.

FMC recognition award for development of CATFAE fire control and Marine Corps program support, 1986.

Selected Analyses and Studies

'MK 38 with Spike ER Missile' International business development study with Rafael to assess the viability of missile-gun weapons, 2011.

'NDIA SLAAD Surface Warfare Study' NDIA study to identify current and long term systems attributes of surface action groups, 2010.

'57mm 3P Lethality Assessment' Business development study to critique Government's findings of ammunition lethality, 2009.

'Error Budgets for Gun Effectiveness Modeling' Government contract to author Military Standard for gunnery error budgets, 2009.

'Ship Air Defense Model Evaluation' International venture with BAE Australia to assess business and market to become US technical agent for SADM, 2008.

'Nuclear Weapons Security Program' SPA contract to evaluate protection of nuclear assets during transit, 2008.

'NWDC/JSAF Observations' Critical analysis of LCS weapons requirements study conducted by Naval Warfare Development Command, 2006 -2007.

'LCS SUW Mission Module Building Blocks' Business development Analysis of Alternatives for LCS SUW Module, 2006-2007.

'Minor Caliber Gun Systems: SUW Performance Analysis Considerations for IWS 3C' Government contract to assess minor caliber gun systems for SUW, 2007.

'Minor Caliber Gun Simulation Study' Government contract to develop Mk 38 simulation requirements, 2006.

'If Ed worked for Oto Melera., Analysis would be easy!' Company critical study of competition, 2006.

'International Court of Arbitration United Defense, L.P. v OTO Melara S.p.A' International respondent critique of MK 75 Super Rapid gun mount performance, 2006.

'57mm and 76mm for Land Attack' International venture to assess fire support capabilities for Turkish Navy, 2005.

'LCS Benchmark Performance Analysis' Lockheed Martin contract to establish SUW performance baselines for LCS, 2005.

'Weapons Systems Effectiveness Modeling' IRAD project to maintain, evolve, and upgrade weapons systems analysis toolkit, 2005.

'Modeling Air-Bursting Munitions in the Joint Gun Effectiveness Model (JGEM)' Government contract for modeling and simulation of multifunction fuzes, 2004.

'Naval Application of StarStreak HVM System' International business study with Thales to assess StarStreak missile performance for SUW applications, 2004.

'Phalanx Blk 1B Integration Study' Business development analysis of open loop fire control requirements for SUW applications, 2004.

'AC-130 Gunship Ballistic Analysis' Government contracted ballistic analysis of candidate AC-130 Gun Ship weapons, 2003.

'LCS Assessment: Core Gun Weapon System SUW Capabilities Self Defense Against Small Boat Swarming Attack and Escort and Protection of High Value Unit (HVU)' IRAD project to conduct gap analysis for LCS capability requirements, 2003.

'Coastal Patrol Boat Coastal Port and Waterway Security' Business development study for Terrorism Threat Analysis for Coast Guard 87' PROTECTOR Class, 2002.

'MLG-27 Performance Evaluation U.S. Navy Applications' International venture with Mouser for SUW minor caliber gun procurement, 2001.