

RESEARCH NOTE

Mathematical analysis of the MPS MX missile system

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A model for the cost-optimization analysis of the multiple protective shelter (MPS) MX missile system is developed. Because many of the components of the system have never been built before and an enemy's capabilities are hard to predict, parametric analysis has been carried out to understand more about the system design.

Key words: mathematical models, missile systems, cost optimization, parametric analysis.

Recently, the development of a new land-based intercontinental ballistic missile (ICBM) system that could survive nuclear attack has been investigated by the US.¹⁻⁴ This new missile system was to be called 'MX' for missile experimental. Since the MX system was proposed, several basing modes have been considered. Some of these systems include: deep underground basing, continuous airborne basing, mobile missile systems, launch under attack systems, small submarine basing, surface ship basing, closely spaced basing and multiple protective shelter (MPS) basing. Of these options the MPS basing system has been seriously considered for possible future development. This paper analyses this MPS MX missile system mathematically. A model is developed which determines the cost-optimal design of the system under varying conditions. In light of the fact that many components of this system have never been built before and the enemy's capabilities are hard to predict, parametric analysis is carried out to understand more about the system design.

System description and problem definition

The MPS MX missile system has several major features: the missiles would be deployed in protective shelters, hard enough to protect them from attacks on adjacent shelters; the shelters would be spaced in a linear grid pattern and positioned to form the vertices of a hexagon (Figure 1). This hexagonal array is the pattern that would minimize land area, while maximizing the number of warheads that must be expended to destroy the shelters. The shelters would be constructed together in connected groups called 'clusters'. Figure 2 shows two such clusters arranged linearly and each containing 24 shelters. Only one shelter chosen randomly within a cluster would house the actual missile, while the remaining shelters would house decoys, engineered to be indistinguishable from the actual MX missile.

As a further precaution to ensure that the locations of the actual missiles remained undetected, a specially designed transporter would shuffle the missiles and decoys frequently about the shelters within a cluster. The missile transporter is an extremely large manned vehicle weighing approximately 20000 lb, and when fully loaded it would have weighed 1.5 million lb. The shelters within a cluster would be connected by heavy duty roads capable of supporting the weight of the transporter. Each cluster would have one missile transporter and one missile maintenance facility for the exclusive use of that cluster. Physical barriers would be constructed between clusters to ensure that additional missiles could not be brought into the cluster, primarily due to enemy considerations. Viewing posts would be installed on the shelters' radars for satellite observations. Hence, if the MX system were designed to be verifiable, it was thought that an opponent would be less likely to build an accurate missile system.

The MX missile designed for the MPS system is the most accurate and powerful missile that the United States has ever built. The MX is a MIRV (Multiple Independently-targeted Reentry Vehicle) missile with 10 separate 300 kton warheads with plans to increase the warhead yield to 4 megaton each. The unclassified NATO Treaty specifies that 10 warheads are the maximum number of MIRV warheads a missile can carry.

The objective of the system is for the equivalent of approximately 1000 nuclear warheads to survive a hypothetical nuclear attack; it is the US Government's estimate that about 100 missiles would be needed to destroy nuclear force capacity.^{5,6} Also it is assumed that a sustained strength of 2400 warheads would be required at the MX system.

The proposed MPS MX missile system would have been an extremely big job. The entire system was conservatively projected to cost approximately \$40 billion (1980 dollars).

Misguided Expenditures An Analysis Of The Proposed Mx Missile System

Frank Blackaby,Christain Schmidt



Misguided Expenditures An Analysis Of The Proposed Mx Missile System:

Misguided Expenditure David Gold, Christopher Paine, Gail Shields, 1981 **Misguided Expenditure** Owen Dodson, 1986 **Guns Versus Butter** United States. Congress. House. Select Committee on Aging. Subcommittee on Retirement Income and Employment, 1981 **Military Technology, Armaments Dynamics and Disarmament** Hans Gunter Brauch, 1989-01-13 Instruments of War Spencer C. Tucker, 2015-07-28 This highly detailed and well illustrated single volume work documents the evolution of warfare across history through weaponry and technological change In war the weapons and technologies employed have direct effects on how battles are waged When new weapons are introduced they can dramatically alter the outcomes of warfare and consequently change the course of history itself This reference work provides a fascinating overview of the major weapon systems and military technologies that have had a major impact on world history Addressing weapons as crude as the club used by primitive man to the high tech weapons of today such as unmanned drones **Instruments of War Weapons and Technologies That Have Changed History** offers nearly 270 profusely illustrated entries that examine the key roles played by specific weapons and identify their success and failures The book begins with an introductory essay that frames the subject matter of the work and discusses the history of weapons as a whole The text is concise and accessible to general readers without extensive backgrounds in military history yet provides the detailed information necessary to convey the complexity of the evolution of warfare through technological change

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Impact of Administration's Social Security Proposals on the Elderly United States. Congress. House. Select

Committee on Aging,1981 *Peace, Defence and Economic Analysis* Frank Blackaby,Christain Schmidt,1987-10-27

Economics of Arms Reduction and the Peace Process W. Isard,C.H. Anderton,2014-06-28 The subject of peace economics and its ramifications are comprehensively and deeply attacked in this book First of all the book presents a compact survey of significant contributions already made and then it provides a broad theoretical background for examining the subject by evaluating four different approaches those of 1 neoclassical welfare theory 2 Keynesian and modern versions of macroeconomics 3 modern growth theory and 4 political choice theory A number of contributions deal with major questions on issues such as the impact of military cutbacks in the Eastern European economies upon their growth trade between nations arms trade nuclear defense and the benefits and costs of war as highlighted by the recent Gulf War Issues of a more general nature but equally significant are also discussed including the age old negotiations problem of two mature political leaders of major powers in conflict the determinants of military expenditures and the problems of developing countries In the last chapter the findings of the studies reported in the book are summarized and key directions for further research are identified This book is indispensable for any economist or analyst conducting research on peace economics and the peace process or concerned with the impacts of recent arms reduction and conversion by the major powers and the escalation of military expenditures elsewhere

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