

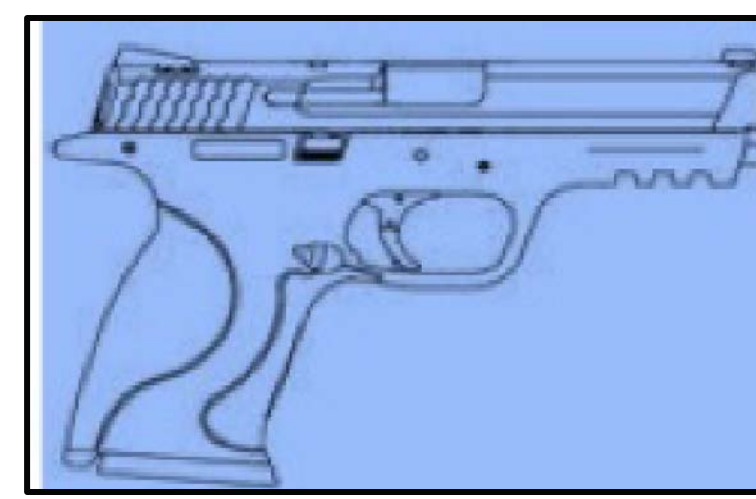
# Interim Review of the MHS Acquisition Strategy



NAVAL  
POSTGRADUATE  
SCHOOL

## Abstract

The purpose of this project is to provide an analysis of the current acquisition strategy in procurement of the Army's Modular Handgun System (MHS) program. This project identifies three alternate courses of action and evaluates them against the current strategy using cost, schedule, and performance parameters. The project provides an assessment of each of the four strategies against the criteria outlined in the MHS Capabilities Production Document and makes a recommendation on the best path forward for the Army's handgun replacement program with regards to cost, schedule, and performance considerations.



Possible COAs: MHS, M9, M9A3, GLOCK 19

Performance Decision Matrix	
Criteria	COA
Lethality - Baseline: wound channel greater than current M882	
Accuracy - Baseline: 35m 4" CEP at 90%	
Ergonomics - Baseline: adjustable handgrip; ambidextrous	
Reliability - Baseline: 2000 rd MRBS, 5000rd MRBF, service life of 25K rds	
Target Acquisition - Baseline: integrated rail	
Modularity - Baseline: package of current strategy	
<b>Total Score</b>	
Scoring Criteria	
Exceeds Threshold Requirements	3
Meets Threshold Requirements	2
Does Not Meet Threshold Requirements	1

Cost Decision Matrix	
Criteria	COA
RDT&E	\$0.00
Procurement	\$0.00
O & M	\$0.00
MILCON	\$0.00
MILPERS	\$0.00
Life Cycle Cost	\$0.00

Criteria	COA
Initial Operating Capability February 2017	
Scoring Criteria	
Past IOC	>
Meets IOC	=
Prior IOC	<

## Method

This project utilized aspects of the Military Decision Making Process and Functional Solution Analysis as the foundation for the methodology. Different courses of action (COA) were identified along with selection criteria. First each COA was evaluated using only one of the selection criteria rather than the collective. The result was the determination of which COA was best when considering only cost, only schedule or only performance. Finally, the team used these results to conduct a comparative analysis of all COAs with all selection criteria.

## Recommendations

1. The U.S Army should stop procuring the M9 pistol under the current contract and abandon the MHS program immediately.
2. A sole source acquisition for the GLOCK 19 pistol should be pursued to meet the requirements of a modular handgun for conventional Army forces.
3. Adoption of JHP 9mm ammunition should be implemented to increase the lethality concerns outlined in the MHS CPD.
4. Utilization of the currently fielded and stocked M882 9mm ammunition should be employed in training environment for newly fielded GLOCK 19 pistols and fired until the stockpile is depleted, then replaced with JHP 9mm ammunition.

Cost Decision Matrix													
Criteria	Rate	Courses of Action											
		Current Strategy MHS			Status Quo M9			Product Improvement M9A3			COTS GLOCK 19		
		Score	Weight	Weighted Score	Score	Weight	Weighted Score	Score	Weight	Weighted Score	Score	Weight	Weighted Score
Life Cycle Cost	3	1	0.50	0.50	2	0.50	1.00	3	0.50	1.50	4	0.50	2.00
Schedule	2	1	0.33	0.33	4	0.33	1.33	3	0.33	1.00	2	0.33	0.67
Performance	1	4	0.17	0.67	1	0.17	0.17	2.5	0.17	0.42	2.5	0.17	0.42
<b>Totals</b>				<b>1.50</b>			<b>2.50</b>			<b>2.92</b>			<b>3.08</b>
<b>Ranking</b>				<b>4</b>			<b>3</b>			<b>2</b>			<b>1</b>

Schedule Decision Matrix													
Criteria	Rate	Courses of Action											
		Current Strategy MHS			Status Quo M9			Product Improvement M9A3			COTS GLOCK 19		
		Score	Weight	Weighted Score	Score	Weight	Weighted Score	Score	Weight	Weighted Score	Score	Weight	Weighted Score
Life Cycle Cost	1	1	0.17	0.17	2	0.17	0.33	3	0.17	0.50	4	0.17	0.67
Schedule	3	1	0.50	0.50	4	0.50	2.00	3	0.50	1.50	2	0.50	1.00
Performance	2	4	0.33	1.33	1	0.33	0.33	2.5	0.33	0.83	2.5	0.33	0.83
<b>Totals</b>				<b>2.00</b>			<b>2.67</b>			<b>2.83</b>			<b>2.50</b>
<b>Ranking</b>				<b>4</b>			<b>2</b>			<b>1</b>			<b>3</b>

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		Score	Weight	Weighted Score	Score	Weight	Weighted Score	Score	Weight	Weighted Score	Score	Weight	Weighted Score
Life Cycle Cost	1	1	0.17	0.17	2	0.17	0.33	3	0.17	0.50	4	0.17	0.67
Schedule	2	1	0.33	0.33	4	0.33	1.33	3	0.33	1.00	2	0.33	0.67
Performance	3	4	0.50	2.00	1	0.50	0.50	2.5	0.50	1.25	2.5	0.50	1.25
<b>Totals</b>				<b>2.50</b>			<b>2.17</b>			<b>2.75</b>			<b>2.58</b>
<b>Ranking</b>				<b>3</b>			<b>4</b>			<b>1</b>			<b>2</b>

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<b>Ranking</b>				<b>3</b>			<b>3</b>			<b>2</b>			<b>1</b>

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