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2	<b>CAPABILITY PRODUCTION DOCUMENT (CPD)</b>
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#### **EXECUTIVE SUMMARY**

23 The Scout Sniper Initial Capabilities Document (ICD) identified the scout sniper's ability to

24 rapidly engage multiple targets at long range with precision as a critical materiel capability gap

25 associated with effective scout sniper performance. The results of the ICD led to the Rapid

26 Engagement Precision Rifle (REPR) Capability Production Document (CPD), under the

27 direction of the Marine Corps Fires and Maneuver Integration Division, Capability Development

28 Directorate (FMID, CDD).

29 The combined effect of this gap is an overall shortfall in mission capability as the lethality, and 30 precision of scout snipers are materielly limited. As described in the Scout Sniper ICD, the lack

31 of a program of record for a REPR system has led to a diminished ability to perform to threshold

standards established during the Functional Area Analysis (FAA) of the Scout Sniper 32

33 Capabilities Based Assessment (CBA) highlighted in the following scenarios:

• Urban environments where multiple fleeting targets present themselves
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- 35 Defensive close quarters scenarios where scout snipers must escape and evade ٠ numerically superior enemy forces by rapidly engaging multiple targets; 36
- 37 Offensive ambush type scenarios where a premium is placed on massed volumes of ٠ 38 accurate fires against enemy targets (prevents escape and ability to return fire);
- 39 Quick adjustments from short range to long range engagements;
- 40 Precision rapid engagement of multiple targets where reduced rates of fire may place friendly forces in danger (massed attacks, suicide bombers, multiple sentries on a raid 41 42 site, etc.); and
- 43 Operations where rapid follow-up shots are necessary to ensure the effective enemy ٠ 44 engagement (suicide attacks, counter-sniper, enemy under the influence of drugs, etc.).

45 The REPR addresses these shortfalls by incorporating reliable, semi-automatic operation in a 46 precision fire weapon system in order to increase the overall firepower and lethality of a scout sniper team. The REPR shall allow the scout sniper to rapidly engage multiple targets out to an 47 48 objective of 1000 meters, with the added ability to effectively engage enemy combatants in close 49 quarters combat (COC) if necessary. The system can act as either a stand alone scout sniper 50 weapon system or augment other systems by providing the ability to engage the volume of

51 targets required for maintaining an urban battlespace tempo of operations.

52 The REPR CPD addresses the materiel gap in precision rapid engagement of multiple targets out 53 to the objective range of 1000 meters identified in the Scout Sniper ICD. The analysis takes a 54 holistic approach to implementing the solution across the doctrine, organization, training, 55 materiel, leadership and education, personnel, and facilities (DOTMLPF) spectrum. The weapon 56 evaluation will include evaluating the full weapon system with its dedicated optics, ammunition, 57 magazines, sensors, and ancillary devices. Accordingly, analysis of lifecycle costs, operational 58 effectiveness, and fielding schedule requirements were undertaken through direct consultation 59 with subject matter experts (SME) and stakeholders. This stakeholder and SME input were used 60 to validate the need for each requirement.

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61 The requirements set forth in this CPD ensure that operators will receive a system that provides a 62 lasting solution. Follow-on action will require a full and open testing and evaluation cycle of 63 mature commercial off-the-shelf (COTS) items that meet the performance parameters set-forth in 64 this study. COTS items for procurement will allow for an aggressive selection and fielding 65 timeline and are the preferred solution. However, it may be necessary to use a spiral 66 development plan to support meeting all objective requirements or to improve the system in 67 response to likely threats and advances in technology. To support the REPR's procurement 68 timeline and to provide a baseline for testing and evaluation of potential weapon systems, all 69 initial weapon systems submitted for contract competition must use 7.62 x 51 mm M118 LR 70 ammunition, the current M8541 Scout Sniper Day Scope (SSDS), and be capable of mounting 71 currently fielded night optics and aiming devices. REPR submissions shall also come with a 72 manufacturer supplied suppressor although procurement of the weapon will not require that the supplied suppressor also be procured as a part of the system.<sup>1</sup> Finally, this does not exclude the 73 74 possibility for the selected system to incorporate new calibers, optics, and technology to obtain 75 objective standards as a part of planned spiral development.

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<sup>&</sup>lt;sup>1</sup> Although the REPR shall be tested and evaluated with the manufacturer supplied suppressor, the REPR maybe procured independent of the supplied suppressor to allow for the best system item(s) to be procured.

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#### 176 **1. CAPABILITY DISCUSSION**

177 The United States Marine Corps (USMC) requires a Rapid Engagement Precision Rifle (REPR), to support scout sniper operations over the next decade (FY08 - FY17). The capability for scout 178179 snipers to rapidly engage multiple targets with precision is a validated joint critical need that has 180 yet to yield a long term solution. To provide the full spectrum of scout sniper capabilities (reference: the six capability areas identified in the Marine Corps Scout Sniper Initial Capability 181 Document (ICD)), USMC Scout Snipers require a weapon system to be procured and fielded as a 182 183 program of record (POR) to replace the current MK11 MOD1 rifle. The MK11 MOD1 does not provide a long term solution to fill the capability gaps identified by the Scout Sniper ICD and 184 185 was procured as a short term fix for the gap regarding precision rapid engagement of multiple 186 targets. The procurement of the MK11 MOD1 was based on an urgent operational need until a 187 POR could be established and no more MK11 MOD1's are currently being procured by the 188 USMC. Once the REPR is selected for procurement, it shall be fielded in accordance with the 189 fielding plan identified in Section 13 of this document.

The REPR shall support the scout sniper by providing precision long range fire against multiple limited exposure targets. The REPR represents a significant improvement in both lethality and precision to a scout sniper team (throughout this document, the "scout sniper team" refers generically to the traditional shooter/spotter pairing of scout snipers). Additionally, the REPR mitigates a critical capability gap (ability to rapidly engage multiple long range targets with precision) identified in Section 7.2 (Materiel Gaps) of the Scout Sniper ICD.

The REPR enhances the following attributes of the future joint force as defined by the CapstoneConcept for Joint Operations (CCJO):

198 199 200	•	( <i>Lethality</i> ) The REPR shall provide a scout sniper with the ability to precisely engage multiple targets faster and at longer ranges, while using suppressor technology for increased stealth;
201 202 203	•	( <i>Precision</i> ) The REPR shall be capable of a precision of fire of 1 minute of angle (MOA) or less out to an objective range of 1000 meters, which is beyond the capabilities of currently fielded similar weapon systems;
204 205	•	( <i>Faster</i> ) Semi-automatic capability with improved recoil reduction shall allow for higher rates of accurate controlled fires over current weapon systems;
206 207 208	•	( <i>Resilience and Endurance</i> ) The enhanced lethality, precision, and speed of the REPR will increase the survivability of scout sniper teams in combat, indirectly allowing for scout snipers to operate longer and more effectively;
209 210	•	( <i>Adaptable</i> ) The addition of the REPR to the scout sniper suite of weapons will allow scout snipers to adjust to a wider range of mission sets; and
211 212	•	( <i>Expeditionary</i> ) The REPR will be carried, maintained, and operated by a single scout sniper in any operating environment with more reliability than current weapon systems.

#### 213 **1.1. OVERVIEW OF THE CAPABILITY GAP**

Marine Corps and Special Operations Forces (SOF) scout snipers are expected to operate across
the full range of military operations (ROMO) in any climate or terrain. In particular, the
demands of operating in urban or restrictive environments place special emphasis on the need to
not only conduct precision engagement, but to also rapidly engage multiple targets. The Marine
Corps does not currently have a long term programmed materiel solution for this gap, as the
primary weapons issued to scout sniper weapons, the fielded M40A3 has proven to be a reliable

221 weapon system for the Marine Corps and will continue to fill a role for scout snipers until it is 222 replaced by a new long range sniper rifle. Unfortunately, the M40A3 is not well suited for 223 combat in urban or restrictive terrain (this is discussed in more detail in Item 3 below). 224 Particular shortfalls of the M40A3 include weight, length, rate of fire, capacity, and signature. 225 To mitigate these gaps in the M40A3's capabilities, operational forces have been issued the 226 MK11 MOD1 as a part of limited, rapid fielding. The MK11 MOD1 does provide an improved 227 precision rapid engagement capability over the M40A3, but the MK11 MOD1 was procured 228 before Marine Corps' Scout Sniper capability requirements were fully identified. Further, as the 229 MK11 MOD1 was not procured as a program of record, thorough testing and evaluation of the 230 system in a full and open competition was not completed before the system was fielded. 231 Therefore, the MK11 MOD1 was not evaluated against optimal capability requirements for 232 rapidly engaging multiple targets with precision. Since then, numerous more capable COTS 233 systems have been produced by industry and all potential systems should be evaluated and tested 234 for the best long term solution. In summary, the USMC currently does not have a viable weapon 235 system to mitigate gaps associated with the ability to rapidly engage multiple targets with

236 precision per the ICD as noted below.

# (1) Currently, there is no programmed system to provide scout snipers a precision semi-automatic capability

239 Rationale: The MK11 MOD1 performed this role on a limited basis with operational units as a 240 means to urgently mitigate an operational gap. It was fielded to temporarily fill the Operation 241 Enduring Freedom (OEF)/ Operation Iraqi Freedom (OIF) need to rapidly engage targets with 242 precision. As a result of being procured as an urgent need and not as a program of record, the 243 MK11 MOD1 bypassed full testing and evaluation and was not considered a long term solution 244 to the Scout Sniper capability requirement. Although this method succeeded in providing a 245 limited capability to scout snipers currently engaged in combat operations, limited procurement 246 and qualitative subject matter expert (SME) / Stakeholder input has demonstrated that the MK11 247 MOD1 is not a satisfactory long term solution to this capability gap. Furthermore, the original 248 procurement objective of 180 systems, 18.2% of what would be required of a full operational 249 capability of 989 systems, was insufficient to meet long-term needs even if the MK11 MOD1 was 250 deemed suitable for continued service. Currently, MK11 MOD1s are no longer being procured 251 and the originally fielded systems are reaching the end of their service life and need to be 252 replaced. As this critical capability is at risk of shortfall, the Marine Corps needs to procure a 253 system as a program of record or risk a significant degradation in scout sniper capabilities.

254 (2) Inability to rapidly engage multiple targets with precision

255 Rationale: Scout Snipers require the capability to rapidly engage multiple limited exposure 256 targets at varying ranges. As a single-shot bolt action weapon, the currently issued M40A3 has 257 neither the rate of fire nor the magazine capacity to effectively engage the enemy in this situation 258 without a substantial risk of allowing the enemy to either escape or counter-attack. This risk is 259 exacerbated in the urban environment where the target can often be identified and engaged only 260 at close range, substantially increasing the risk that scout sniper teams could be overwhelmed by 261 a larger enemy force with automatic weapons. Furthermore, rapid engagement must be precise. 262 Although the MK11 MOD1 provides a comparable rate of fire to the REPR, the current 263 capability does not meet broader system requirements. It is essential in missions such as counter-sniper to deliver precise, lethal effects on the enemy target upon the initial engagement. 264 265 Also, in irregular warfare (IW) operations, collateral damage or the inadvertent wounding or 266 killing of non-combatants could undermine an entire operation and is not an acceptable risk. 267 Missions requiring this validated requirement include: engaging combatants dispersed 268 throughout crowds of non-combatants; multiple enemy targets engaging advancing friendly 269 forces (overwatch); ambushes and defending against ambushes; breaking contact by fire; 270 engaging sentries on a raid site; hostage rescues; stopping suicide attackers; and disabling 271 vehicles or other materiel that typically require multiple hits to effectively destroy or neutralize. 272 This gap poses a critical risk across all (6) scout sniper capabilities identified in the Scout

273 Sniper ICD and is the primary reason for this Capability Production Document (CPD).

274

#### (3) Limited ability to effectively conduct movement in an urban environment

275 Rationale: Scout snipers operating in an urban environment require maximum agility to 276negotiate the urban landscape, where quick sprints across danger zones, movement through

277 constricted areas such as windows and doors, and vaulting over walls, fences, and other

278 obstacles are common. The length and weight of the M40A3 are prohibitive in this respect and

279 could prove to be a fatal liability. The requirement to have a "defensive" weapon also dictates

280 that scout snipers often carry a second "primary" weapon, which further decreases mobility.

281 For SOF, it may be necessary to operate semi-independently while still providing for security

282 during sensitive low-visibility operations. The failure to have a smaller and lighter sniper rifle

283 ultimately degrades all six scout sniper capabilities identified in the Scout Sniper ICD.

#### 284 (4) Limited ability to operate without being identified as a "sniper"

285 As scout snipers move throughout areas of operation, it is necessary that they do not present a 286 "sniper" signature as they will be particularly targeted by the enemy. Moreover, being 287 identified as a "sniper" can have a negative effect on public perception in sensitive counter-288 insurgency type operations. This was a recurrent issue addressed during the gap analysis 289 portion of the Scout Sniper ICD. Although, not specifically spelled out as a "critical" stand-290 alone gap, it was identified as a major contributing factor to the overall capability reduction of 291 the ability for scout snipers to freely operate, especially in a daytime urban environment. As 292 such, this shortfall can be partially mitigated by the procurement of less identifiable, more 293 concealable weapon systems. Specifically, the M40A3 with its scope and classic bolt action is 294 universally recognized as a "sniper" rifle and is therefore likely to draw dangerous attention to 295 the bearer of the weapon. Equally important is the need to engage and re-engage targets 296 without compromising the location of the scout sniper team. Without modification, the M40A3 297 falls short of this capability requirement as it does not use a flash or sound suppressor. This is

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of particular importance in close, urban combat where the flash and sound of a gunshot is more likely to draw an immediate and potentially lethal response against a compromised scout sniper team. The MK11 MOD1 does present a more survivable "M-16" like signature, thus minimizing scout sniper identification, but still falls short of requirements as it does not allow for compact storage in a pack. The failure to have a concealable or less noticeable sniper rifle with the ability to stealthily engage targets ultimately degrades the ability to conduct all six scout sniper capabilities identified in the Scout Sniper ICD and puts scout snipers in particular danger in an

305 *urban fight*.

#### 306 **1.2.** CAPABILITY LINKAGE TO JOINT CAPABILITY AREAS

307 Enhancements to this materiel capability shall allow the Marine Corps' scout sniper capability to

- better support two Tier 1 Joint Capability Areas (JCA): Force Application and Battlespace
   Awareness.
- 310 Under *Force Application*, materiel enhancements in precision, lethality, and speed shall directly

311 improve the Scout Sniper contribution to the Tier 2 *Engagement* JCA. This improved ability

312 spans all Tier 4 JCAs (types of targets) within the Tier 3 JCA of *Kinetic* engagement.

313 As a result of increased precision, lethality, and speed, scout snipers shall be more survivable and

314 enduring on the battlefield which allows teams to better conduct their assigned missions

315 including surveillance and reconnaissance. This indirectly supports the Tier 1 Battlespace JCA

- 316 by enabling Tier 2 Intelligence, Surveillance, and Reconnaissance through better battlefield
- 317 collection.
- 318

#### Table 1. Key JCAs

Tier 1 JCA	Tier 2 JCA	Tier 3 JCA	Scout sniper capability(s)	REPR Impact
Force Application	Engagement	Kinetic	<ul> <li>The ability to effectively engage personnel with precision</li> <li>The ability to conduct patrols</li> <li>The ability to conduct counter-sniper operations</li> <li>The ability to effectively engage hardened or materiel targets with precision</li> </ul>	<ul> <li>More precise engagement with reduced risk of collateral damage</li> <li>Improved lethality</li> <li>Longer engagement range (critical for open environments like deserts and mountains)</li> <li>Quicker engagement (critical in ambush and defensive scenarios)</li> <li>Engagement of multiple short exposure targets (critical in urban environment)</li> </ul>
Battlespace Awareness	Intel, Surveillance, and Recon	Collection	<ul> <li>The ability to effectively engage personnel with precision</li> <li>The ability to conduct surveillance.</li> <li>The ability to conduct patrols</li> </ul>	<ul> <li>Greater persistence allows more time for surveillance</li> <li>Lighter system allows for greater field endurance</li> </ul>

319

#### 320 **1.3. Operational Employment**

321 Although REPR employment tactics, techniques, and procedures will ultimately be determined

322 by each specific mission, the system is envisioned to be employed by both Marines and possibly

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323 SOF across the full ROMO in all mission environments. The REPR is a man-portable system 324 that shall not degrade a scout sniper's ability to move throughout the operational environment. 325 The REPR is not a part of a family of systems (FoS) or system of systems (SoS), but shall 326 complement other current organic scout sniper weapon systems such as the M40A3. The REPR 327 shall also complement future planned scout sniper weapon systems such as the M40A3's planned 328 replacement, the Long Range Sniper Rifle. The REPR can be used as either a stand alone sniper 329 weapon or as an augment to the M40A3's slower bolt action system when multiple targets are 330 identified and require rapid engagement. This REPR shall also act as a defensive weapon for

331 close quarters combat (CQC), removing the need to carry a secondary defensive weapon.

332 Finally, as demonstrated in OEF and OIF, the REPR shall provide a critical capability to scout

333 snipers especially in combat operations involving urban and restrictive terrain.

### 334 2. ANALYSIS SUMMARY

335 In 2006, in response to requests for improved sniper capabilities from Marines conducting 336 combat operations in Iraq, a Congressional Plus-up was provided for the USMC to develop and 337 test a new long-range sniper rifle. Based on scout sniper studies conducted by the Marine Corps 338 in 2002 and 2005, the Fires and Maneuver Integration Division, Capabilities Development 339 Directorate (FMID, CDD) at Headquarters Marine Corps identified significant scout sniper 340 capability gaps and a need to expand the scope of its data collection efforts. FMID then directed 341 that a complete Capabilities Based Assessment (CBA) be conducted to produce a holistic Scout 342 Sniper ICD. This ICD served as the analytic foundation for modernizing the Marine Corps' 343 scout sniper capability by addressing current and future capability gaps.

344 The Scout Sniper CBA and resulting ICD determined that a materiel gap existed in the ability to 345 rapidly engage multiple targets with precision. Follow-on analysis via a literature review and 346 stakeholder and SME interviews concluded that this gap could be mitigated by COTS non-347 developmental items (NDI) with an extremely low programmatic risk. Furthermore, SOF, the 348 USMC, and the U.S. Army all currently field some form of a precision semi-automatic weapon 349 proving the operational need and concept in combat. Based on these activities, MCSC, in 350 coordination with FMID, decided to move directly forward to a Milestone C acquisition decision 351 to solve this gap.

352 Once the decision was made to move to Milestone C, a data collection effort was undertaken to 353 identify the critical elements required for the REPR to mitigate the identified gap and enhance 354 the overall Marine Corps' Scout sniper capability. Interviews with testing and evaluation 355 experts, procurement specialists, scout sniper SMEs, and a review of data generated by AARs 356 and currently fielded weapon systems were all reviewed to distill the requirements for the REPR. 357 Independent confirmation of the requirements list was also generated by the validation of a Tri-358 Marine Expeditionary Force's (Tri-MEF) Scout Sniper Universal Urgent Need Statement 359 (UUNS). This UUNS called for nearly the same requirements in a REPR type system to support 360 scout sniper capability performance.

361 Currently, Marine Corps' scout snipers employ an M40A3 bolt action rifle. Scout sniper units 362 deployed to OIF or OEF may also be issued the MK11 MOD1 when available to augment the

deployed to OIF or OEF may also be issued the MK11 MOD1 when available to augment the
 M40A3. The table below illustrates some of the major specifications on those systems compared

364 to the REPR.

#### 365

#### Table 2. System Specifications

Weapon System	M40A3	MK11 MOD1	REPR
Weight Fully Loaded	18.5 lb	18.29 lb	17 lb threshold
Overall Length	44.25 in	44 in	40 in threshold
Barrel Length	24 in	24 in	20 in threshold
Barrel Life	Estimated 8-10,000 rounds	Estimated 5,000 rounds	10,000+ round threshold
Cost per system	\$6,335	\$10, 891	≤ \$8,934
Caliber	7.62 x 51 mm NATO	7.62 x 51 mm NATO	7.62 x 51 mm NATO with caliber agility
Action	Bolt-action	Semi-automatic gas operated	Semi-automatic system
Effective Range	1000 yd	800 meters	800 meters (Threshold) and 1000 meters (Objective)
Rate of Fire	5 rounds per minute	12-15 rounds per minute sustained	20 rounds per minute sustained
Capacity	5 round internal box magazine (10 with mod)	20 round detachable magazine	Detachable magazine (threshold of 20 rounds)

366

367 The following general requirements and attributes shall be incorporated into the REPR to 368 provide the Marine Corps with a long-term, optimized platform to replace the MK11 MOD1 369 (note that the M40A3 is planned to be replaced by the Long Range Sniper Rifle, which shall 370 mitigate identified scout sniper capability gaps in extreme long range precision and lethality that 371 the REPR is neither intended to mitigate, nor technologically feasible of performing). Foremost, the REPR shall provide the ability to rapidly engage multiple targets with precision out to an 372 373 objective range of 1000 meters in accordance with the task, standards, and conditions identified 374 during the Scout Sniper CBA. The weapon system shall do this in an operationally reliable 375 package that reduces overall cost and weight per item, increases engagement range, reduces 376 barrel length, and extends barrel life as compared to the MK11 MOD1. The system must allow 377 for rapid reloading and target acquisition, incorporate acoustic and flash suppression, incorporate 378 commonly accepted U.S. military assault rifle characteristics, fully support ambidextrous 379 operation, use current compatible scout sniper optics and weapon accessories, allow for unit 380 level maintenance, and be 100% interchangeable. The entire system shall also include all 381 necessary ancillary devices.

The need for a REPR is also supported by the Marine Expeditionary Rifle Squad (MERS) ICD in addition to various UNS relating to scout sniper activities, OEF and OIF After Action Reports, studies conducted by the Marine Corps Center for Lessons Learned (MCCLL), and Joint and U.S. Army studies. The following list of documents is not exhaustive, but represents some of the primary references supporting the need for a REPR, especially as it relates to improved scout sniper capability:

388	•	Scout Sniper ICD, MROC Approved April 14, 2008. Findings: Critical gaps exist in
389		scout snipers' ability to rapidly engage multiple targets with precision, especially at long
390		ranges. The gap becomes more critical in an urban environment. The ICD also
391		establishes threshold and objective standards for task execution that can be directly
392		translated to Key Performance Parameters (KPPs) and additional attributes. [Note: Will
393		be included for reference]

394 395	•	MERS ICD, Draft 2, 15 June 2007. Findings: Need for scout sniper capabilities are critical to successful infantry operations.
396 397 398 399	•	MCCLL: Non-Kinetic / Counterinsurgency Operations, A Study in Command, March 2006. Findings: Scout sniper capabilities play a critical role in counterinsurgency (COIN) operations and require adequate / improved equipment to successfully support COIN.
400 401 402 403	•	Joint Urban Ops Joint Integrating Concept (JIC), Version 1.0, 23 July 2007. Concept: Identifies the need for a scout sniper capability to be employed in an urban environment to support operations. Implies that rapid engagement of multiple targets and at various ranges will be commonplace.
404 405 406	•	MCCLL: Scout Sniper Employment Lessons Learned Conference, 22 December 2006. Findings: Need for precision semi-automatic capability critical to successful scout sniper operations.
407 408	•	MCCLL: Sniper / Counter Sniper Operations, Lessons and Observations, January-April 2007, OIF 05-07. Findings: Support need for precision semi-automatic rifle.
409 410	•	<u>MCCLL: Semi-Automatic Sniper Rifle, 1 March 2005.</u> Findings: Specifically addresses need for employment of a semi-automatic sniper rifle with scout snipers.
411 412 413	•	Mk 11 UNS for Semi-Automatic Sniper Rifle, Combat Tracking System # 05076UB, signed 15 August 2005. Findings: Initial attempt to fill the gap for a semi-automatic sniper rifle in on-going combat operations.
414 415 416	•	Soldier Weapons Assessment Team After Action Report, July 2003. Findings: This assessment of small arms capabilities in OIF highlighted the need for a semi-automatic-capable sniper weapon for use in the urban environment.
417 418 419 420 421	•	Small Arms Technology Assessment, Individual Infantryman's Weapon Vol. I., 1990. Findings: Establishes the maximum effects of kinetic effect (KE) rifles and evaluates additional effects of target acquisition and engagement techniques; recognizes that the majority of small arms targets are moving and only visible for a limited time, which supports the need for immediate shot follow-up capability.
422 423 424	•	<u>CPD for Semi-Automatic Sniper System, United States Army Integration Center, version</u> <u>4, 26 April 2006.</u> Findings: Validates need for semi-automatic sniper rifle and identifies key Army requirements and attributes.
425 426 427 428	•	Men Make the City: Joint Urban Operations Observations and Insights from Afghanistan and Iraq, RAND report for Joint Forces Command, April 2004. Identifies that urban sniper capability was critical to provide high precision lethality with low possibility of collateral damage.
429	3.	CONCEPT OF OPERATIONS SUMMARY
430	The R	EPR shall be one of a suite of weapons (that include at least a precision long range sniper

The REPR shall be one of a suite of weapons (that include at least a precision long range sniper
 rifle and an anti-materiel weapon) in the scout sniper table of equipment used to support the six

7

432 scout sniper capability areas identified in the Scout Sniper ICD. Specifically, the REPR shall 433 provide a single weapon system that bridges the gap between short range and long range 434 precision engagement while still providing a reliable semi-automatic capability. For example, using the current issue adjustable power M8541 Scout Sniper Day Scope (SSDS) a scout sniper 435 436 can set his scope for a wide field of view and rapidly engage targets at close ranges (less than 437 300 meters) as seen in the urban areas of Iraq or set the scope at a higher power and engage long 438 range targets (up to 1000 meters) as seen in the mountains of Afghanistan. This system also 439 shall allow for engagement of one or more targets in rapid succession allowing for engagement 440 of enemy groups that previously may have been bypassed by a scout sniper team for fear of 441 being overwhelmed. The REPR shall be employed by both Marines and SOF across the full 442 ROMO in all mission environments as a primary scout sniper weapon. The REPR is a man portable system that is not a part of a FoS or SoS, but shall complement other organic systems 443 444 such as the M40A3 in a suite of scout sniper weapons that allow for the scout sniper to choose 445 the right tool (weapon) for the mission. To this effect, the REPR shall also complement the 446 M40A3's planned replacement, the Long Range Sniper Rifle<sup>2</sup>. The REPR can be used as either a stand alone sniper weapon or to augment the M40A3's slower bolt action system when multiple 447 448 targets are identified and require rapid engagement. This weapon also shall act as a defensive 449 weapon for CQC, removing the need to carry a secondary defensive weapon. As demonstrated 450 in OEF and OIF, the REPR shall provide a required operational need especially in combat 451 operations involving urban or restrictive terrain.

#### 452 **3.1.** CONCEPT OF EMPLOYMENT

The REPR will be employed across the ROMO, however, its desired attributes are best
illustrated and tested in a MOUT Scenario due to the complexities involved in this type of
employment. The REPR's ability to blend with other organic infantry weapons, its compactness,
its rapid fire capability, and its ability to transition quickly from engaging short range targets
(less than 300 meters) to long range targets (800+ meters) with precision are critical attributes
that MOUT will require.

459

460 In the MOUT scenario, the scout sniper team will use the REPR during operations in support of 461 the Infantry. Upon vehicle insertion with an infantry unit conducting a 6 hour security patrol, the 462 team will establish a position to conduct observation and surveillance as well as provide direct 463 fire as required. Upon completion, the scout sniper team will link up with the supported unit and 464 patrol via foot back to their forward operating base.

465

466 The mission will begin in the pre-dawn darkness and end during full daylight. To complete the 467 mission, the scout sniper team will operate from both ground and elevated firing positions inside 468 and outside of structures. During the mission, the scout sniper team will employ precision direct 469 fire against multiple stationary and moving targets at various ranges between 300 and 1000 470 meters. Upon extraction, the team will move to a link-up point. During this movement the team 471 will have the ability to use the REPR as a primary weapon in a restrictive environment, which 472 includes rapid fire engagement of multiple targets and breaking contact by fire. After link-up

<sup>&</sup>lt;sup>2</sup> The Long Range Sniper Rifle, which shall have a range capability of at least 1500 meters, is planned to mitigate separate gaps in extreme long range and lethality that the REPR is not intended to address.

473 with the infantry squad, the scout sniper team will patrol back to base where they will be

474 employed in overwatch and counter-sniper roles. The mission is completed after the unit re-475 enters friendly lines.

476

#### 477 **3.2.** LINKAGE TO FUTURE MARINE CORPS' CONCEPTS

478 Although we live in an age of increasingly sophisticated and complex weapons systems there is 479 still high demand for the capabilities of highly trained and skilled scout snipers-personnel who 480 deliver results that are disproportionate to the initial investment of their training. The Marine 481 Corps' scout sniper is a highly specialized type of supporting arm that is a force multiplier to any unit being supported. Highly skilled in fieldcraft and marksmanship, the scout sniper delivers 482 483 precision rifle fire day or night, collects detailed information for intelligence purposes, and 484 directs/adjusts supporting arms. As a result, scout snipers provide a robust and flexible range of 485 capabilities that can be employed by the supported commander in any assigned mission.

486 Specific to the Marine Corps, the scout sniper capability shall support Marine Corps' concepts as 487 outlined in the Marine Corps Operating Concepts for a Changing Security Environment (also 488 known as the Gray Book). The Gray Book translates broad guidance and direction received from 489 the Commandant of the Marine Corps, relating how the Marine Corps will operate in the future 490 into a draft family of Marine Corps-specific operating concepts. This document provides the 491 conceptual and foundational underpinnings for the development and refinement of required capabilities, and describes how Marine Corps forces will be organized, based, trained and 492 493 equipped to perform their critical missions.

494 The concepts contained inside the *Gray Book* encompass the vision that evolved out of the 495 concepts of Operational Maneuver from the Sea (OMFTS) and Expeditionary Maneuver Warfare 496 (EMW). The concepts are enabled by the functional concepts of Seabasing and Distributed 497 Operations and are further framed by the likely operational and threat environments predicted in 498 the Marine Corps Midrange Threat Estimate 2005-2015. The Gray Book also illustrates how the 499 Marine Corps contributes to the nation's defense and the Navy's Sea Shaping Concept by 500 providing expeditionary forces trained and equipped for forward presence, security cooperation, 501 counterterrorism, crisis response, forcible entry, prolonged operations and counterinsurgency. 502 The scout sniper capability directly supports these missions by providing the force tasked with 503 executing these missions an agile, flexible, and lethal package.

504 **3.3.** LINKAGE TO JOINT OPERATING CONCEPTS

505 The scout sniper capability can be linked across the ROMO primarily to the Major Combat

506 Operations (MCO), IW, and Military Support to Stabilization, Security, Transition, and

507 Reconstruction Operation (SSTR) Joint Operation Concepts (JOCs). In these concepts, the scout

508 sniper capability provides an expeditionary force capable of shaping the operational environment

and then supporting decisive operations. The addition of the REPR would increase scout sniper

510 lethality in support of the concepts outlined in the above JOCs.

511 During MCOs, the scout sniper capability contributes directly to achieving both tactical and

512 operational level objectives. By providing a rapidly projectable expeditionary force capable of

513 employing integrated fires, long range communications, and stealth, the scout sniper capability is

514 a key component in conducting distributed operations (DO). When leveraged properly, the

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515 capability provides a commander with a powerful force multiplier that can isolate,

516 psychologically demoralize, and ultimately defeat enemy nodes of resistance wherever they are

517 encountered on the battlefield.

518 By fielding the REPR, the Marine Corps' scout sniper capability would be enhanced, making a 519 direct, positive impact on MCOs. Specifically, the MCO JOC expresses a need for the capability 520 to increase force survivability through the use of speed, lethality, and the ability to apply force 521 from standoff distances (3.C.11). Although this statement is directed at the greater operational 522 level concerning maneuver and is the rationale for force generation of expeditionary cornerstones 523 such as the MV-22 Osprey and the EFV, this same concept still applies to scout snipers at the 524 tactical level. Thus, the REPR, with the ability to rapidly engage multiple targets with precision 525 from a concealed location 1000 meters from an unaware enemy, is a critical capability 526 improvement in the speed, lethality, and standoff range of scout sniper capability. The MCO 527 JOC also articulates the need for a capability to "empower commanders to conduct flexible and responsive operations at every useful level, to include... maneuver and precision engagement 528 529 operations..." (4.C.6) The scout sniper capability embodies this by providing a force that is 530 rapidly available, easily projected, tailored to support a wide range of missions, able to maneuver 531 undetected, and able to precisely engage targets with speed and lethality. The REPR would 532 directly impact the ability to precisely engage targets via its enhanced firepower and indirectly 533 enable the greater capability through enhanced survivability. Finally, the MCO JOC requires 534 that the DOD "field capabilities to maintain adaptive force dominance" and maintain "service 535 collective, unit competencies." (3.B.5) The REPR would allows scout snipers to adapt to more 536 operational environments while still maintaining force dominance.

537 Though the scout sniper may tactically conduct more missions during MCOs, the full value of 538 the scout sniper's precision is witnessed in IW and SSTR operations. Precision takes on a 539 greater role in IW and SSTR operations because of the need to engage enemy forces while 540 minimizing collateral damage (IW Task 0.7-026C, conduct lethal strike). This is necessary to 541 prevent alienation of the local populace while attempting to provide security for them. IW task 542 0.7-023C (control significant land areas) addresses this. Furthermore, the order of magnitude in 543 damage potentially caused to the overall operational and even strategic success of the campaign 544 by collateral damage is substantially higher than during MCOs as IW and SSTR add an inherently political nature to the battle. Thus, increasing the precision of the scout sniper 545 546 capability while improving lethality mutually enhances scout sniper capabilities and the ability to 547 conduct IW or SSTR operations. Although the scout sniper capability has wide applicability 548 across multiple JOCs, its greatest resonance is with MCOs, IW, and SSTR.

#### 549 4. THREAT SUMMARY

#### 550 4.1. THREATS TO BE COUNTERED

551 Sniper rifles continue to evolve with increases in both range and lethality at a given distance due 552 to: caliber increases, improvements in optics, other supporting equipment (such as range finders 553 and mini-weather stations enabling better estimation of conditions and allowing for better shot 554 placement), and ammunition improvements for sniping or precision use in all calibers. Within 555 the next ten years, anti-materiel rifles will become increasingly common. Within urban areas, 556 maneuver space and potential areas for staging an assault on enemy-held fortifications and 557 facilities will be limited. The number of armies using body armor worldwide is steadily

558 increasing and will continue to increase over the next ten years. Body armor that is viable 559 against current ball 7.62mm North Atlantic Treaty Organization (NATO) rifle ammunition is 560 commercially available from various sources. Unconventional forces may also use body armor 561 to reduce the effectiveness of US weapons as the number of countries producing and 562 proliferating body armor increases. Sniper and shot detection systems are available from multiple commercial sources and are being heavily marketed to the US and other countries. 563 564 These are advertised for both force protection and anti-crime use but are readily adapted to 565 military combat operations as is the case in Iraq.

#### 566 4.2. PROJECTED THREAT ENVIRONMENT

It is anticipated that urbanization will continue on a worldwide scale with an increased 567 568 probability of Marines being deployed to fight in urban terrain. There will also be a continued 569 need to engage enemy forces in more open environments, such as mountains and deserts. 570 Engagements will also occur in various natural areas such as jungles, forests, plains and 571 savannas. Dense urban areas often have large open areas such as industrial areas, parks, 572 cemeteries, transportation hubs (rail, air or port facilities) that may present opportunities to 573 engage at great distances. Engagement distance can be expected to vary greatly in these 574 environments. The capability to engage targets behind cover in these varying environs will require enhanced accuracy and penetration capability or the ability to select rounds able to 575 576 penetrate cover and reach targets. Recent operational experience bears this out, as hostile forces 577 used hardened vehicles and improved positions to engage US and allied forces during combat 578 operations. The second battle of Fallujah and Operation Anaconda illustrate the use of hardened 579 positions to engage US and allied forces. The enemy uses the lessons learned from these events 580 and other events such as Chechnya to develop updated tactics, techniques, and procedures (TTP) 581 to use as part of their defensive and offensive tactics.

582 Snipers employed in increasingly complex terrain and the increasing use of civilian "human 583 shields" places snipers in situations where compromise is likely due to the cultural setting, and 584 the enemies "home field advantage".

#### 585 **4.3. RANGE OF THREATS**

586 This availability of a wide variety of weapons to state and non-state actors presents a threat to 587 snipers beyond sniper-on-sniper capability. Weapons such as rocket-propelled grenades (RPGs), 588 antitank guided missiles (ATGMs), heavy machine guns, antiaircraft guns, medium cannon and 589 antitank guns all present a threat to snipers as they can be used to target compromised or 590 suspected team locations with volume of fire techniques or precision fires from near to far 591 ranges. An example of this was the use of ATGMs as portable artillery by Hizballah against 592 Israeli forces sheltering in buildings during the summer of 2006 in Lebanon. The threats to be 593 countered by USMC Scout/Snipers are hostile snipers and armed land forces operating in a wide 594 variety of environments. The ability to engage fleeting and often multiple targets in these 595 environs require the capability of rapid engagement of multiple targets. Increasingly, the 596 potential threat operates as small teams even for sniping operations, meaning multiple targets are 597 usually present during any engagement. The threat remains highly adaptive and is armed with 598 increasingly more capable weapons systems. US snipers are a high payoff target for opposition 599 forces, and the adversary's ability to overwhelm or overrun a compromised scout sniper team 600 operating in a remote environment is often due to sheer volume of fire. Thus, the ability to

601 provide better rapid engagement across the entire range spectrum is critical. Increasingly,

- terrorist groups are cross training as seen by migration of TTPs from one area to another byrelated and unrelated groups.
- ous related and unrelated groups.

#### 604 4.4. VALIDATED THREAT REFERENCES

605 This analysis was made using the:

- Volume IV Land Warfare Capstone Threat Assessment: Foreign Infantry Weapons
   (NGIC-1121-0011-07, October 2007)
- Volume VI Land Warfare Capstone Threat Assessment: The Future Operational Threat
   Environment (NGIC -1121-0011-07, October 2007);
- Volume VII Land Warfare Capstone Threat Assessment: Technically Feasible Threats
   (Body Armor) (NGIC-1121-0011-07, October 2007)
- Marine Corps Midrange Threat Estimate: 2005-2015, published by the Marine Corps
   Intelligence Agency (MCIA) in August 2005 (MCIA-1586-001-05); and
- "The Urban Century", MCIA-1586-003-97, November 1997.
- 615 A classified annex is also being prepared for this product.

#### 616 5. PROGRAM SUMMARY

617 The Scout Sniper ICD, validated by the Marine Requirements Oversight Council (MROC) in

618 March 2008, identified an operational gap and recommended a materiel solution in the form of a

619 semi-automatic weapon capable of precision engagement at long range. Mature technology

allows for the Marine Corps to test and field a COTS NDI semi-automatic weapon system by the

621 most expedient and cost effective means possible to meet required needs while minimizing

622 developmental activity.

623 The requirements set forth in this CPD ensure that operators shall receive the optimal system to 624 provide a lasting solution. Follow-on action shall require a full and open testing and evaluation 625 cycle of mature COTS items that meet the performance parameters set-forth in this study. COTS items for procurement will allow for an aggressive selection and fielding timeline and are the 626 627 preferred solution. However, it maybe necessary to use a spiral development plan to support 628 meeting all objective requirements with one system or to improve the system in response to 629 likely threats and advances in technology. Finally, to support the REPR's procurement timeline 630 and to provide a baseline for testing and evaluation of potential weapon systems, all initial 631 weapon systems submitted for contract competition shall come with a manufacturer supplied 632 suppressor<sup>3</sup>, be chambered to fire  $7.62 \times 51$  mm ammunition, and be capable of mounting 633 currently fielded day/night optics and aiming devices. The current M8541 SSDS will be the day 634 optic used on all systems. This does not exclude the possibility for the selected system to incorporate new calibers, optics, and technology to obtain objective standards as a part of 635

636 planned spiral development.

<sup>&</sup>lt;sup>3</sup> Although the REPR shall be tested and evaluated with the manufacturer supplied suppressor, the REPR may be procured independent of the supplied suppressor to allow for the best system item(s) to be procured.

- 637 A spiral development approach would lend itself well to procuring COTS items while
- 638 simultaneously pursuing more advanced ammunition or calibers in future modular variants and
- 639 incorporating improved parts such as lighter receivers and barrels with longer service lives.
- 640 Acquisition will be based on a full and open competition for viable candidate systems with an
- 641 emphasis on leveraging existing and readily available COTS/NDIs to the maximum extent
- 642 possible. Some items that are currently components of the M40A3 and Mk11, such as the
- 643 M8541 SSDS and the Scout Sniper Medium Range Night Sight (SSMRNS), will be used to
- 644 maintain a minimum logistical and supply footprint while maximizing interoperability.
- Marine Corps Systems Command shall develop an acquisition strategy to acquire this materielsolution.

#### 647 6. SYSTEM CAPABILITIES REQUIRED FOR CURRENT INCREMENT

- The capabilities described below shall apply to the REPR. Each requirement is a threshold (T),
   the minimum acceptable value necessary to satisfy the need. If no objective (O) is provided, the
   threshold equals the objective.
- 651 (1) KPP. The *Survivability* KPP does not apply to this system.
- 652 (2) KPP. The *Force Protection* KPP does not apply to this system.
- 653 (3) KPP. *Materiel Availability*: As an overall "up" average of all systems is irrelevant at 654 the organizational level, a requirement of 87.5%<sup>4</sup> of the systems fielded to a specific unit
- (regardless of the total number) are operational at any given time shall be the unit of measure
  (Threshold) 99% (Objective).
- 657

Rationale: For a fully operational capability, the REPR must be fully fielded in the hands of
trained operators and be reliable in the field at all times. At the scout sniper platoon level, only
eight systems per platoon are planned for issue so that if even one system is unavailable, it
represents a significant reduction in platoon capability. Thus, operational availability is
addressed in this KPP.

- 663
- 664 (a) KSA. Materiel Reliability: The REPR with magazine, M8541 Scout Sniper Day Scope, and a manufacturer supplied suppressor<sup>5</sup> shall have a Mean Rounds Between 665 Essential Function Failure (MRBEFF) of 10,000 rounds for Class III malfunctions, 666 5,000 rounds for Class II malfunctions, and 1,000 rounds for Class I malfunctions 667 668 (Threshold). The REPR shall have a MRBEFF of 15,000 rounds for Class III 669 malfunctions, 10,000 rounds for Class II malfunctions, and 2,000 rounds for Class I malfunctions (Objective). All tests shall be conducted with 7.62 x 51 mm M118 long 670 671 range ammunition. 672
- 673The REPR, while following the appropriate maintenance schedule shall have a674minimum Class I, II, and III Mean Round Between Failures (MRBEFF) as listed in the675below table.

<sup>5</sup> REPR reliability shall be tested using manufacturer supplied suppressor for 80% of rounds fired during testing.

 $<sup>^{4}</sup>$  87.5% is derived from 7 of 8 weapons in "up" status. This is based on the current T/E fielding plan of (8) weapons to a scout sniper platoon.

676 677

#### Table 3. Materiel Reliability Standards

Failure Class	MRBEFF
I (MRBF)	1,000 (T) / 2,000 (O)
II (MRBF)	5000 (T) / 10000 (O)
III (MRBF)*	10,000 (T) / 15,000 (O)
	2

678

\* No broken parts causing weapon to cease function.

679 Failure Classification:

680 Class I: A failure that may be immediately clearable/correctable by the operator within 10 681 seconds or less while following prescribed immediate action procedures.

682 Class II: A failure that may be clearable/correctable by the operator requiring more than 10 seconds but not more than 10 minutes. Only the equipment and tools issued with the weapon 683 684 may be used to clear the weapon.

685 Class III: A failure of a severe nature. The failure; (1) is correctable by the operator but requires

686 more than 10 minutes, (2) operator cannot correct and requires assistance (no time limit), (3)

requires higher level of maintenance, or authorized operator correction cannot be accomplished 687 688 because of unavailability of necessary tools, equipment or parts.

689 Rationale: System reliability is a critical component of any system to be fielded in a combat 690 environment where it will be exposed to harsh conditions and heavy use. As a primary combat 691 weapon, lives are literally at stake if the REPR fails to perform. The threshold values for Class I 692 and II malfunctions are estimated based on industry improvements in reliability over the 693 currently held standard for the primary infantry fire team weapon, the M16A4, which has a 694 combined threshold of 900 MRBEFF for Class I and II malfunctions. The threshold value for 695 Class III failures reflect industry's current capability to provide a reliable weapon system and 696 are tied to weapon barrel and service life. The threshold values are based on industry's 697 advertised capability to provide a reliable system, which has not yet been proven through 698 government testing and evaluation. (b) KSA. *O&M Cost<sup>6</sup>*: Operations and maintenance costs shall not exceed \$4,968,661 699 700 over the lifecycle of the weapon system<sup>7</sup> (Objective). \$6,853,566 (Threshold). The

701 main cost drivers are sustainment overhauls to replace the upper assemblies.

702

703 **Rationale:** It is in the best interests of the Marine Corps to procure a weapon demonstrating the 704 overall "best value." Although the Marine Corps should identify cost as a significant driver in 705 the procurement evaluation, this should not be the single most important issue. Rather, overall 706 quality, reliability, and ability to meet the identified KPPs should drive final decisions. Scout 707 snipers require specialized equipment to conduct their missions effectively so maximum flexibility should be given to obtaining the best system.

708 709

All dollars are base year 2008.

<sup>7</sup> Weapon lifecycle is projected to be 10 years

710	(4) KPP. <i>Compatibility:</i> The REPR shall not degrade or interfere with the ability to
711	employ or operate with equipment currently fielded and shall use existing sniper optics
712	and weapon accessories. The REPR shall use 7.62 x 51 mm M118 long range
713	ammunition in the initially fielded system (Threshold). The REPR shall possess caliber
714	agility with a minimum of exchanged parts (Objective).
715	
716	<b>Rationale:</b> This system must allow for use while wearing protective equipment such as a helmet,
717	body armor, gloves (including cold weather), field protective mask (including full MOPP IV over
718	garments), and eye protection. Furthermore, it should be compatible for storage and transport
719	in all standard ground, air, and sea platforms. All items must fully integrate with what the
720	operator is using when operating in combat. Use of current ancillary equipment, ammunition,
721	and other fielded items should be used whenever appropriate to reduce costs while not creating
722	additional logistical stress.
723	
724	(5) KPP. The <i>Net Ready</i> KPP does not apply to this system since it has no network
725	capable equipment and does not interface with any joint critical operational activities.
726	
727	(6) KPP. Rifle/Action: The REPR shall have a detachable magazine-fed, semi-automatic
728	operating system that incorporates technology that maximizes reliability, precision, and
729	service life. The weapon system shall allow for fully ambidextrous operation (Threshold
730	= Objective).
731	
732	Rationale: The REPR provides the operational capability of a sniping and fighting system and
733	addresses the shortcomings in rate of fire of the existing M40A3 sniper rifle. A semi-automatic
734	capability provides for a sustained rate of fire that exceeds that of the M40A3 and allows the
735	sniper to "stay on the scope/stay on the gun" to rapidly engage multiple targets. The semi-
736	automatic capability also allows for rapid, multiple follow-on shots against moving/fleeting
737	personnel and light skinned vehicles. Inherent to this shall be the use of technology that
738	maximizes the reliability, precision, and service life of the system throughout the design and
739	manufacture of the entire weapon system. Finally, the ability for left and right handed shooters
740	to operate the weapon system is critical for the safe and effective universal application of the
741	weapon system.
742	
743	(7) KPP. <i>Precision</i> : The REPR <sup>8</sup> shall provide a precision of fire $\leq 1.0$ Minute of
744	Angle (MOA) out to 800 meters (Threshold) 1000 meters (Objective) when fired from
745	an accuracy fixture in nominal conditions unsuppressed.
746	
747	Rationale: The purpose of acquiring a new sniper system is to provide the capability to rapidly
748	engage and eliminate personnel targets at 800-1000 meters with precision. This is necessary to
749	meet both operational demands and to complement the 914 meter effective range of the M40A3.

<sup>&</sup>lt;sup>8</sup> To support the REPR's procurement timeline and to provide a baseline for testing and evaluation of potential weapon systems, all initial weapon systems submitted for contract competition must use 7.62 x 51 mm M118 LR ammunition (provided by the government that will ensure that the ammunition lot holds at no more than 1 MOA), the current M8541 SSDS, and be capable of mounting currently fielded night optics and aiming devices. This does not exclude the possibility for the selected system to incorporate new calibers, optics, and other technological innovations to meet or exceed objective standards as a part of planned spiral development.

750 In Irregular Warfare type scenarios this is especially important because precision engagement 751 and quick kills against multiple targets are critical as collateral damage from an errant shot 752 (friendly or enemy) can pose an unacceptable operational risk. Mitigating operational risk due 753 to degraded precision is the primary factor why this weapon must continue to perform to 754 standard even when firing at the sustained rate.<sup>9</sup> After action reviews (AARs) regarding OIF 755 and OEF reinforce the 300 – 1000 meter distances (although frequently closer in urban terrain) 756 as well as the array of targets on a multi-shot, multi-kill battlefield. Although REPR cold barrel, 757 first shot kills shall be possible (weapon, ammo selection, range, wind, environment, target 758 disposition and shooter skill influenced), personnel targets are engaged/re-engaged until 759 eliminated. Thus, the more accurately shots can be placed on target, the more likely it is to 760 achieve first round kills. Still, sniper teams can plan/expect to expend 1 to 2 rounds of 761 ammunition per target engagement especially when attacking multiple fleeting targets. Input 762 from the Marine Corps Scout Sniper ICD, supported by the Tri-MEF UUNS, supports this 763 requirement as an operational need. Additionally, the requirement is supported by input from 764 the Marine Corps Center for Lessons Learned and the Marine Corps Scout Sniper School. 765 766 (8) KPP. Rate of Fire: The REPR shall be capable of maintaining precision fire in 767 semi-automatic mode of  $\leq 1.0$  MOA for 20 shots in one minute (Threshold = Objective). 768 769 **Rationale:** The need to rapidly engage targets with precision has been identified in numerous 770 OEF and OIF AARs especially in the urban or restrictive environment where multiple targets 771 offer only a very limited time to engage and may suddenly appear at close range. Furthermore, 772 rapid target destruction in both offensive and defensive scenarios allows for rapid sniper team 773 displacement and disengagement thus enhancing sniper team survivability. The rate of fire is set 774 at 20 rounds per minute based on capability need, industry's current standards, and the current 775 capability of the primary infantry fire team weapon, the M16A4. Finally, the Marine Corps 776 Scout Sniper ICD validated this requirement as a critical component of capability generation for 777 scout snipers. 778 779 (9) KPP. Training: Current USMC ranges used for scout sniper marksmanship training 780 shall be able to fully support REPR live fire training (Threshold). Marines shall also be able to 781 conduct REPR training with the Indoor Simulated Marksmanship Trainer (ISMT) or other virtual 782 trainer (Objective). 783 784 **Rationale:** The need to quickly incorporate the REPR into the scout sniper suite of weapons 785 requires that it have minimal training impact on current facilities and organization. Analysis 786 shows that current ranges used to support training with the M40A3 sniper rifle will be 787 compatible with the REPR. Organizationally, TECOM and the scout sniper school house have 788 adapted the POI to accommodate training on a similar system, the MK11 MOD1, and are 789 prepared to fully accommodate training with the REPR. For low cost sustainment training, the 790 REPR must also be compatible with training simulators used by the USMC such as the ISMT. 791 792 
 Table 4. Key Performance Parameter
 793 Note: The Scout Sniper Capability supports the following Joint Operating Concepts: Major Combat Operations; 794 Military Support to Stability, Security, Transition, and Reconstruction; IW; and Homeland Defense

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CCJO Characteristics	Key Performance	Production Threshold	Production Objective
	Parameter		
N/A	KPP 1 Survivability	N/A	N/A
N/A Enduring	KPP 2 Force Protection KPP 3 Materiel Availability	N/A 87.5% of weapon systems shall be in the "up" status at the unit level discounting routine operator maintenance and MOS 2111 safety and maintenance inspections. (T)	N/A 99% of weapon systems shall be in the "up" status at the unit level discounting routine operator maintenance and MOS 2111 safety and maintenance inspections. (O)
Interoperable, Adaptable, Tailorable	KPP 4 Compatibility	REPR shall not degrade or interfere with the ability to employ or operate with equipment currently fielded and shall use existing sniper optics and weapon accessories. The REPR shall use 7.62 x 51 mm M118 long range ammunition in the initially	The REPR shall possess caliber agility with a minimum of exchanged parts. (O)
		fielded system. (T)	
N/A	KPP 5 Net Ready	N/A	N/A
Resilient, Lethal, Interoperable	KPP 6 Rifle Action	The REPR shall have a detachable magazine-fed, semi-automatic operating system that incorporates technology that maximizes reliability, precision, and service life. The weapon system shall allow for fully ambidextrous operation with 100% interchangeable parts. (T = O)	(T = O)
Precise, Lethal	KPP 7 Precision	The REPR shall provide a precision of fire ≤ 1.0 MOA at 800 meters when fired from an accuracy fixture in nominal conditions unsuppressed (see footnote #8). (T)	The REPR shall provide a precision of fire ≤ 1.0 MOA at 1000 meters when fired from an accuracy fixture in nominal conditions unsuppressed (see footnote #8). (O)
Precise, Lethal	KPP 8 Rate of Fire	The REPR shall be capable of maintaining precision fire in semi- automatic mode of $\leq 1.0$ MOA for 20 shots in one minute (T = O).	(T = O)
Interoperable	KPP 9 Training	Current USMC ranges used for scout sniper marksmanship training shall be able to fully support REPR live fire training. (T)	Marines shall also be able to conduct REPR training with the Indoor Simulated Marksmanship Trainer (ISMT) or other virtual trainer. (O)

795 796

#### Table 5. Key System Attributes

CCJO characteristics	Key System Attributes	Production Threshold	Production Objective
Resilient, Lethal, Enduring	KSA 1 Reliability	The REPR with magazine, M8541 Scout Sniper Day Scope, and a manufacturer supplied suppressor shall have a Mean Rounds Between Essential Function Failure (MRBEFF) of 10,000 rounds for Class III malfunctions (i.e. for non-operator clearable/correctable malfunctions, which cause the loss of essential functionality), 5,000 rounds for Class II malfunctions (i.e. for operator clearable/correctable malfunctions that take more than 10 seconds, but less than 10 minutes to correct), and 1,000 rounds for Class I malfunctions (i.e. for operator correctable/clearable malfunctions that are immediately correctable within 10 seconds or less). All tests shall be conducted with 7.62 x 51 mm M118 long range ammunition. (T)	The REPR with magazine, M8541 Scout Sniper Day Scope, and a manufacturer supplied suppressor shall have a MRBEFF of 15,000 rounds for Class III malfunctions, 10,000 rounds for Class II malfunctions, and 2,000 rounds for Class I malfunctions. All tests shall be conducted with 7.62 x 51 mm M118 long range ammunition. (O)
Adaptable/Tailorable, Enduring	KSA 2 O&M Cost	Operations and maintenance cost is projected to be \$6,853,566 over the lifecycle of the weapon system. (T)	Operations and maintenance cost is projected to be \$4,968, 661 over the lifecycle of the weapon system. (O)

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#### 798 **6.1. ADDITIONAL PERFORMANCE ATTRIBUTES**

In order to provide the capabilities outlined in paragraph one of this document, the REPR shallhave the following additional performance attributes:

#### 801

#### Table 6. Additional Performance Attributes

Attribute	Production Threshold	Production Objective
Durable Protective Materiel (coatings)	The REPR with suppressor and magazines shall be corrosion, abrasion, impact, wear, and chemical resistant. (T)	The REPR shall incorporate self-lubricating materiel that does not require grease or lubricants for the operating components. (O)
Cleaning / Lubricating Materiel	The REPR shall be capable of being cleaned and lubricated with all US government standard weapon cleaners and lubricants without adverse effects to the weapon (T)	The REPR shall be capable of being cleaned and lubricated with all US government standard weapon cleaners and lubricants without adverse effects to the weapon, although the protective coatings for the operating components should not require the application of grease or lubricants. (O)
Color	All external and visible REPR surfaces including magazines and suppressor shall have a dull finish, that is paintable, consistent with current camouflage colors and patterns, and minimizes infrared signatures. (T)	All external and visible REPR surfaces including magazines and suppressor shall meet FED-STD-585, color 30118 or coyote. (O)
System Ruggedness	The system (weapon, optic, magazine, and suppressor) shall withstand the shock of being	(T = O).

Attribute	Production Threshold	Production Objective
	dropped by the user or of being dropped from	•
	a stationary vehicle at 1.7 meters onto a	
	concrete surface, the shock from a user	
	performing individual movement techniques in combat, and the vibrations of being	
	transported in standard military aircraft and	
	ground vehicles. The REPR shall perform	
	reliably in High Temperature - 160° F, Low	
	Temperature - minus 25° F, Salt Fog, Sand	
	and Dust, Icing/Freezing Rain, and after	
Weight	immersion in mud. (T = O). Weight with scope, sling, bipod, suppressor,	Weight with scope, sling, bipod, suppressor,
vveignt	and magazine loaded with 20 rounds shall be	and magazine loaded with 20 rounds shall be
	17 pounds or less. (T)	11 pounds or less. (O)
Length	The REPR without suppressor shall measure	The REPR without suppressor shall measure
-	less than 40 inches in length with the buttstock	less than 36 inches in length with the buttstock
	extended to a Length of Pull of 13.5 inches (or	extended to a Length of Pull of 13.5 inches (or
	the closest adjustable position greater than	the closest adjustable position greater than
	13.5 inches). Length of pull is defined as the distance between the front of the trigger and	13.5 inches). Length of pull is defined as the distance between the front of the trigger and
	the rear of the buttstock. (T)	the rear of the buttstock. (O)
Barrel Life	≥810,000 rounds. Barrel must maintain	≥ 15,000 rounds. Barrel must maintain
	precision of 1.0 MOA or less. (T)	precision of 1.0 MOA or less. (O)
Barrel	The REPR barrel shall be capable of removal	The REPR barrel shall be capable of removal
Replacement	and replacement at the intermediate level by	and replacement at the organizational level by
	an MOS 2112 armorer (certified to work on precision weapons). (T)	an MOS 2111 armorer. (O)
Assembly /	The REPR shall be capable of breakdown to	The REPR shall be capable of breakdown to its
Disassembly	its primary operating components by the	primary operating components by the operator
-	operator in 1 minute or less without tools for	in 30 seconds or less without tools for normal
	normal cleaning and care. The weapon parts	cleaning and care. The weapon parts shall be
	shall be designed so that incorrect assembly is highly improbable. The REPR shall be	designed so that incorrect assembly is highly improbable. The REPR shall be capable of re-
	capable of re-assembly from breakdown in 1	assembly from breakdown in 30 seconds or
	minute or less with no change in the weapon's	less with no change in the weapon's zero and
	zero and without tools. (T)	without tools. (O)
Trigger Pull	Pull weight shall not exceed 4 pounds. (T)	The REPR's trigger pull shall be operator
		adjustable and not require additional
		maintenance and inspections beyond routine operational level requirements. (O)
Recoil	The REPR recoil energy should not exceed 18	The REPR recoil energy shall not exceed 12
	foot pounds. (T)	foot pounds. (O)
Rapid Fire Target	A trained sniper firing the REPR system shall	A trained sniper firing the REPR system shall
Acquisition /	engage an E-Type silhouette target (modified	engage an E-Type silhouette target (modified
Recoil	for MCMP Table II showing head, chest, and	for MCMP Table II showing head, chest, and
Management	pelvic girdle scoring areas) with 10 rounds in 1 minute at 300 meters. All shots must be	pelvic girdle scoring areas) with 20 rounds in 1 minute at 300 meters. All shots must be
	placed inside the head/chest scoring areas.	placed inside the head/chest scoring areas.
	(T)	(O)
Hit Probability	A fully trained and current sniper firing the	A fully trained and current sniper firing the
	REPR shall achieve 8 out of 10 hits (80%	REPR shall achieve 8 out of 10 hits (80%
	probability) within 1.0 MOA at 800 meters firing 10 rounds in 10 minutes or less on a	probability) within 1.0 MOA at 1000 meters firing 10 rounds in 10 minutes or less on a
	"NRA Bulls-eye" target under nominal	"NRA Bulls-eye" target under nominal
	conditions. Nominal conditions are defined as	conditions. Nominal conditions are defined as
	70 degrees F +/- 10 degrees and unlimited	70 degrees F +/- 10 degrees and unlimited
M ICala T (	visibility during daylight. (T)	visibility during daylight. (O)
Multiple Target Engagement	The REPR shall be capable of engaging 3 E- Type Silhouette targets (modified for MCMP	The REPR shall be capable of engaging 3 E- Type Silhouette targets (modified for MCMP

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Attribute	Production Threshold	Production Objective
	Table II showing head, chest, and pelvic girdle	Table II showing head, chest, and pelvic girdle
	scoring areas) placed 10 feet apart with one	scoring areas) placed 10 feet apart with one
	shot a piece in the head or chest scoring area at 500 meters in 15 seconds or less. (T)	shot a piece in the head or chest scoring area at 800 meters in 15 seconds or less. (O)
Safety	The REPR shall have a safety mechanism	The REPR shall have a safety mechanism that
caroty	that only allows the weapon to be fired when	only allows the weapon to be fired when the
	the trigger is depressed and the safety is in	trigger is depressed and the safety is in the fire
	the fire position. The 5 <sup>th</sup> to 95 <sup>th</sup> percentile of	position. The 5 <sup>th</sup> to 95 <sup>th</sup> percentile of shooters
	shooters shall be able to manipulate the safety	shall be able to manipulate the safety using the
	using the shooting hand and without changing the firing grip. The safety shall be easy to	shooting hand and without changing the firing grip. The safety shall be easy to operate under
	operate under all environmental conditions	all environmental conditions and operator
	and operator dress, and shall be capable of	dress, and shall be capable of ready status
	ready status verification (safe/fire) by both	verification (safe/fire) by both sight and touch.
	sight and touch. The REPR safety shall have	The REPR shall allow for a round to be carried
	a tactile signature to the operator with minimal	in the chamber without applied stored energy.
	audible signature. (T)	The REPR safety shall have zero audible
Supproces	The REPR shall have a precision fire, high	signature. (O) The REPR shall have a precision fire, high
Suppressor	decibel reduction, quick disconnect sound	decibel reduction, quick disconnect sound
	suppressor that shall reduce audible signal no	suppressor that shall reduce audible signal no
	less than 24db. Accuracy should not be	less than 35db. Accuracy should not be
	affected by a deviation greater than or equal	affected by a deviation greater than or equal to
	to a 2 MOA shift from weapon's original zero	a 1.0 MOA shift from weapon's original zero
	with a repeatability threshold of 1.0 MOA. The	with a repeatability threshold of 0 MOA. The
	sound/flash suppressor shall add no more than 10 inches to the length of the REPR.	sound/flash suppressor shall add no more than 8.5 inches to the length of the REPR. The
	The suppressor shall weigh no more than 38	suppressor shall weigh no more than 24
	ounces and be capable of being installed and	ounces and be capable of being installed and
	removed by the operator in the field with no	removed by the operator in the field with no
	tools. The attached sound suppressor (when	tools. The attached sound suppressor (when
	hot) shall have minimal degradation of the	hot) shall have minimal degradation of the
	operator field of view with primary optic and	operator field of view with primary optic and
	other visual augmentation systems due to heat mirage and come with a mirage wrap if	other visual augmentation systems due to hear mirage and come with a mirage wrap if
	necessary. (T)	necessary. (O)
Optics	The REPR shall be compatible with all current	(T = O)
·	scout sniper optics and utilize the M8541	
	SSDS. (T = O)	
Magazine	The REPR shall use a 20 round magazine that	The REPR shall use a magazine with more
	does not require special tools to load. The	than 20 rounds that does not require special
	magazine shall be able to be disassembled, cleaned, and reassembled by the operator in	tools to load or adversely affect system capabilities. The magazine shall be able to be
	field conditions. (T)	disassembled, cleaned, and reassembled by
		the operator in field conditions. (O)
Reload Time	The REPR shall be reloadable by a trained	The REPR shall be reloadable by a trained
	operator in the prone position with a ready	operator in the prone position with a ready
	magazine in less than 5 seconds from the	magazine in less than 3 seconds from the
	moment the magazine release is activated to	moment the magazine release is activated to
Rail System	the resumption of firing. (T) The REPR shall have a MIL-STD 1913 guad	the resumption of firing. (O) The top rail shall have a 30-minute
nai oyatem	forward rail system that is integral to the upper	depreciation to allow for increased usable
	receiver. The 12, 3, and 9 o'clock rails must	range of SSDS. (O)
	be capable of maintaining sight zeros while	
	conducting routine firing combined with	
	combat movement and operational training	
Engenerati-	drills. (T)	The DEDD shall have a fability flashing of the
Ergonomic Enhancements	The REPR shall have an adjustable stock and cheek-piece that shall accommodate shooter	The REPR shall have a folding/locking stock. The buttstock when folded shall not interfere
	oncomplete that shall accommodate should	The buildook when lolded shall not intellete

The adjustable stock shall accommodate cheek weld, stock weld, and eyr relief of th 5 <sup>m</sup> -95 <sup>m</sup> percentile of Marines. The stock must not interfere with the charging handle or cycle of operations of the weapon in any configuration. (T)       Shall be adjustable stock shall accommodate cheek-piece that shall accommodate operations of the weapon in any configuration. (T)         Forward Assist       The REPR shall include a forward assist. (T = 0)       (T = 0)         Brass Deflector       The REPR shall include a forward assist. (T = 0)       (T = 0)         Brass Deflector       The REPR shall incorporate a brass deflector. (T = 0)       (T = 0)         (1) Durable Protective Materiel: The REPR with suppressor and magazines si corrosion, abrasion, impact, wear, and chemical resistant (T). The REPR shall incorporate self-lubricating materiel that does not require grease or lubricants f operating components (O).         Rationale: The REPR must remain functional in the full range of environments and con in which the scout sniper can be expected to perform his mission. This ultimately increa survivability and provides the operator with the confidence needed in a weapon system 1 operate reliably under extreme and hazardous environmental conditions. These require reflect the durable protective coating standards established for the Marine Corps Infant Automatic Rifle, the Army Semi-Automatic Sniper System, and SOF's Precision Sniper K (2) Cleaning and Lubricating Materiel: The REPR shall be capable of being c and lubricated with all US government standard weapon cleaners and lubricant adverse effects to the weapon (T). The protective coatings for the operating components should not require the application of grease or lubricants while stil confirming to threshold standards (O).	The adjustable shock shall accommodate cheek weld, actow relief of the 5 <sup>70</sup> -95 <sup>th</sup> percentile of Marines. The stock must not interfere with the charging handle or cycle of operations of the weapon in any configuration. (T)       shall be adjustable stock shall accommodate length of pull adjustment/splits all accommodate or perations of the weapon in any configuration. (T)         Forward Assist       The REPR shall include a forward assist. (T = 0)       (T = 0)         Brass Deflector       The REPR shall incorporate a brass deflector. (T = 0)       (T = 0)         (1) Durable Protective Materiel: The REPR with suppressor and magazines sh corrosion, abrasion, impact, wear, and chemical resistant (T). The REPR shall incorporate self-lubricating materiel that does not require grease or lubricants fo operating components (O).         Rationale: The REPR must remain functional in the full range of environments and cond in which the scout sniper can be expected to perform his mission. This ultimately increas survivability and provides the operator with the confidence needed in a weapon system th operate reliably under extreme and hagardous environmental conditions. These requirer reflect the durable protective coating standards established for the Marine Corps hifant; Automatic Rifle, the Army Semi-Automatic Sniper System, and SOF's Precision Sniper Ri (2) Cleaning and Lubricating Materiel: The REPR shall be capable of being cl and lubricated with all US government standard weapon cleaners and lubricatis adverse effects to the weapon (T). The protective coatings for the operating components should contain standard lubrication requirements to maintain syster reliability, and to prevent cost inflation of the weapon system. The REPR must be maintain within the existing Marine Corps maintenance structure. These requirements reflect clea and		Production Threshold	Production Objective
O)         The REPR shall incorporate a brass deflector.         (T = O)           (1) Durable Protective Materiel: The REPR with suppressor and magazines si corrosion, abrasion, impact, wear, and chemical resistant (T). The REPR shall incorporate self-lubricating materiel that does not require grease or lubricants f operating components (O).           Rationale: The REPR must remain functional in the full range of environments and com in which the scout sniper can be expected to perform his mission. This ultimately increat survivability and provides the operator with the confidence needed in a weapon system I operate reliably under extreme and hazardous environmental conditions. These require reflect the durable protective coating standards established for the Marine Corps Infant. Automatic Rifle, the Army Semi-Automatic Sniper System, and SOF's Precision Sniper K           (2) Cleaning and Lubricating Materiel: The REPR shall be capable of being c and lubricated with all US government standard weapon cleaners and lubricant adverse effects to the weapon (T). The protective coatings for the operating components should not require the application of grease or lubricants while stil confirming to threshold standards (O).           Rationale: The REPR should contain standard lubrication requirements to maintain systemity, and to prevent cost inflation of the weapon system. The REPR must be maint within the existing Marine Corps maintenance structure. These requirements reflect clean and lubricating standards established for the Marine Corps Infantry Automatic Rifle, the Semi-Automatic Sniper S Precision Sniper Rifle.           (3) Color: All external and visible REPR surfaces including magazines and su shall have a dull finish that is paintable, consistent with current camouflage col	O)         The REPR shall incorporate a brass deflector.         (T = O)           (1) Durable Protective Materiel: The REPR with suppressor and magazines sh corrosion, abrasion, impact, wear, and chemical resistant (T). The REPR shall incorporate self-lubricating materiel that does not require grease or lubricants for operating components (O).           Rationale: The REPR must remain functional in the full range of environments and cona in which the scout sniper can be expected to perform his mission. This ultimately increas survivability and provides the operator with the confidence needed in a weapon system the operate reliably under extreme and hazardous environmental conditions. These requirem reflect the durable protective coating standards established for the Marine Corps Infantre Automatic Rifle, the Army Semi-Automatic Sniper System, and SOF's Precision Sniper Riflects to the weapon (T). The protective coatings for the operating components should not require the application of grease or lubricants while still confirming to threshold standards (O).           Rationale: The REPR should contain standard lubrication requirements to maintain systereliability, and to prevent cost inflation of the weapon system. The REPR must be maintain systereliability, and to prevent cost inflation of the weapon system. The REPR must be maintain systereliability, and to prevent cost inflation of the weapon system. The REPR must be maintain systereliability, and to prevent cost inflation of the weapon system. These requirements reflect clea and lubricating standards established for the Marine Corps Infantry Automatic Rifle, the Semi-Automatic Sniper System, and SOF's Precision Sniper Rifle.           (3) Color: All external and visible REPR surfaces including magazines and sup shall have a dull finish that is paintable, consistent with current camouflage colo patterns, and minimiz		The adjustable stock shall accommodate cheek weld, stock weld, and eye relief of the 5 <sup>th</sup> -95 <sup>th</sup> percentile of Marines. The stock must not interfere with the charging handle or cycle of operations of the weapon in any	with the operation of the weapon. The shall be adjustable and have an adjust cheek-piece that shall accommodate si length of pull adjustments/optics alignn The adjustable stock shall accommoda weld, stock weld, and eye relief of the si percentile of Marines. The stock must interfere with the charging handle or cy operations of the weapon in any config (O)
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834 **Rationale:** The equipment of scout snipers must contribute to the overall effectiveness of his 835 camouflage and concealment. The failure of any one item in his equipment, to include his 836 weapon, to incorporate signature reduction degrades or negates the overall effect of the 837 individual's camouflage and greatly reduces his survivability. The objective value supports 838 integration with all near future Marine Corps camouflage schemes without over focusing on a 839 single pattern. These requirements reflect the color standards established for the Marine Corps 840 Infantry Automatic Rifle, the Army Semi-Automatic Sniper System, and SOF's Precision Sniper 841 Rifle. 842 843 (4) System Ruggedness: The system (weapon, optic, magazine, and suppressor) shall 844 withstand the shock of being dropped by the user or of being dropped from a stationary 845 vehicle at 1.7 meters onto a concrete surface, the shock from a user performing individual movement techniques in combat, and the vibrations of being transported in 846 847 standard military aircraft and ground vehicles. The REPR shall perform reliably in High 848 Temperature - 160° F, Low Temperature - minus 25° F, Salt Fog, Sand and Dust, 849 Icing/Freezing Rain, and after immersion in mud. (T = O). 850 851 Rationale: The REPR must remain functional in the full range of environments and conditions 852 in which the scout sniper can be expected to perform his mission. The threshold drop is based 853 on the bed height of a Medium Tactical Vehicle Replacement (MTVR). Further, Marines and 854 SOF will operate in littoral environments where the likelihood of being submerged in saltwater 855 is substantially high. It is imperative for operational success that the weapon and associated 856 parts be able to function in ship to shore operations where sustained submersion of the weapon 857 system is likely. These requirements for system ruggedness reflect the standards established for 858 the Marine Corps Infantry Automatic Rifle, the Army Semi-Automatic Sniper System, and SOF's 859 Precision Sniper Rifle. 860 861 (5) Weight: Weight with scope, sling, bipod, suppressor, and magazine loaded with 20 862 rounds shall be 17 pounds or less. (T) 11 pounds or less. (O) 863 864 **Rationale:** The REPR weight shall not be a detriment to the scout sniper's individual mobility. 865 The threshold weight is a balance between industry standards of weapons advertised to have 866 capabilities similar to the REPR and the US Army Research Laboratory studies demonstrating 867 that individual weapon weights in excess of 12.5 pounds impact the individuals ability to employ 868 the weapon effectively. 869 870 (6) Length: The REPR without suppressor shall measure less than 40 inches in length 871 with the buttstock extended to a Length of Pull of 13.5 inches (or the closest adjustable 872 position greater than 13.5 inches). (T) The REPR without suppressor shall measure 36 873 inches in length or less with the buttstock extended to a Length of Pull of 13.5 inches 874 (or the closest adjustable position greater than 13.5 inches). (O) Length of pull is 875 defined as the distance between the front of the trigger and the rear of the buttstock. 876 877 **Rationale:** The REPR's threshold length (40 inches) is based on the primary individual weapon 878 in the infantry unit, the  $M16\Lambda4$ . The objective length of 36 inches is based on the length of the 879 shortest available individual weapon in use in the infantry battalion, the M4 with stock extended.

880 881 (7) *Barrel Life*: >8,000 rounds. A precision of fire of 1.0 MOA or less shall be 882 maintained. (T)  $\geq$  15,000 rounds. A precision of fire of 1.0 MOA or less shall be 883 maintained. (0)884 885 **Rationale:** The barrel life of the REPR shall be linked to maintaining a precision of fire of 1.0 886 MOA or less for 8,000 rounds (T). 15,000 rounds (O). Barrel life is especially critical in a 887 semi-automatic weapon that is expected to fire a higher number of rounds than precision bolt 888 action systems. This ensures that sustainment costs are kept low while minimizing the logistical 889 burdens that include armorer support. The objective barrel life standard is based on industry's 890 advertised capability, which has not been proven through government testing and evaluation. 891 892 (8) Barrel Replacement: The REPR barrel shall be capable of removal and 893 replacement at the intermediate level by an MOS 2112 armorer (certified to work on 894 precision weapons. (T) The REPR barrel shall be capable of removal and replacement 895 at the organizational level by an MOS 2111 armorer. (O) 896 897 Rationale: During the lifecycle of the REPR, it is expected that if objective barrel life standards 898 are not met, it will be necessary to replace the upper assemblies including the barrel to maintain 899 proper functionality and a precision of fire of 1.0 MOA or less. Upper assembly replacement is 900 estimated at 60% of the total system cost and is projected to double initial service life of the 901 system. This is critical to maintain a low operations and maintenance (O&M) cost. Further, it 902 is essential for a low density weapon system such as the REPR to maintain an "up" status of 903 87.5% of the time to meet mission requirements. This mandates that overhauls to the system be 904 rapidly completed at the organizational or intermediate maintenance echelon. If MOS 2111's 905 can complete this work, the system can almost be entirely maintained at the unit level. If not, 906 maintenance by MOS 2112 precision armorers provide the next most responsive option. 907 908 (9) Assembly/Disassembly: The REPR shall be capable of breakdown to its primary 909 operating components by the operator in 1 minute or less without tools for normal 910 cleaning and care. The weapon parts shall be designed so that incorrect assembly is 911 highly improbable. The REPR shall be capable of re-assembly from breakdown in 1 912 minute or less with no change in the weapon's zero and without tools. (T) The REPR 913 shall be capable of breakdown to its primary operating components by the operator in 914 30 seconds or less without tools for normal cleaning and care. The weapon parts shall 915 be designed so that incorrect assembly is highly improbable. The REPR shall be 916 capable of re-assembly from breakdown in 30 seconds or less with no change in the 917 weapon's zero and without tools. (O) 918 919 **Rationale:** For the REPR to maintain operational capability in the field, it is necessary for the 920 operator to be able to break down and reassemble the weapon system in a timely manner. The 921 operator is the first line of maintenance and the most essential element in monitoring the 922 weapon's status. As a precision weapon, the REPR must support the conduct of detailed 923 inspection and maintenance by the operator in a simple, intuitive manner. Further, as a 924 precision weapon, it is essential that no change in the weapon's zero should occur as a result of 925 proper assembly/disassembly. All of this shall be accomplished without tools as tools are likely

926	to be lost, are a burden to the supply system, and would unnecessarily burden the operator with
927	more weight and equipment. These requirements for assembly and disassembly reflect standards
928	that are applicable to the REPR and were drawn from the Marine Corps Infantry Automatic
929	Rifle, the Army Semi-Automatic Sniper System, and SOF's Precision Sniper Rifle standards.
930	
931	(10) Trigger Pull: Pull weight of no more than 4 pounds. (T) The REPR's trigger
932	pull shall be operator adjustable and not require additional maintenance and inspections
933	beyond routine operational level requirements. (O)
934	
935	Rationale: The REPR's trigger pull should be light enough to allow for precise engagement, yet
936	provide enough resistance to safely be employed in a combat environment. Further, the ability
937	to adjust the trigger pull to individual shooter's preference will improve the operator's
938	performance.
939	poljornivnoor
940	(11) Recoil: The REPR recoil energy should not exceed 18 foot pounds. (T) The
941	REPR recoil energy shall not exceed 12 foot pounds. (O)
942	KENTETOOTH OHOLGY Shart hot oncode 12 toot pounds. (0)
943	Rationale: The REPR shall reduce recoil of the weapon caused by discharging rounds, to
944	maintain the operator's ability to maintain target acquisition through the optic and allow for
945	more rounds on target in a multiple target and rapid precision engagement against hostile
946	forces. These requirements for system recoil reflect the standards established for the Army
947	Semi-Automatic Sniper System and SOF's Precision Sniper Rifle.
948	Seni Milonaul Shiper System and SOT 31 recision Shiper Rifle.
949	(12) Rapid Target Acquisition/Recoil Management: A trained sniper firing the REPR
950	system shall engage an E-Type silhouette target (modified for the Marine Corps
951	Marksmanship Program (MCMP) Table II showing head, chest, and pelvic girdle
952	scoring areas) with 10 rounds in 1 minute at 300 meters. All shots must be placed
953	inside the head/chest scoring areas. (T) A trained sniper firing the REPR system shall
954	engage an E-Type silhouette target (modified for MCMP Table II showing head, chest,
955	and pelvic girdle scoring areas) with 20 rounds in 1 minute at 300 meters. All shots
956	must be placed inside the head/chest scoring areas. (0)
957	[
958	Rationale: For the REPR to be a successful weapon system in rapid precision engagement it is
959	imperative that the operator be able to successfully engage targets with minimal interference
960	from the operation of the rifle. Allowing the operator to "stay on the scope/stay on the gun,"
961	while engaging multiple targets is a key quality the REPR system should incorporate in to its
962	rapid target acquisition/recoil management. Further, this aligns the REPR's capability with the
963	standards set forth in the Marine Corps Marksmanship Program (MCO 3574.2K, Task
964	0300.M16.1009) under Table I's requirement to "engage targets at the sustained rate."
965	
966	(13) <i>Hit Probability</i> : A fully trained and current sniper firing the REPR shall achieve 8
967	out of 10 hits (80% probability) within 1.0 MOA at 800 meters firing 10 rounds in 10
968	minutes or less on a "NRA Bulls-eye" target under nominal conditions. Nominal
969	conditions are defined as 70 degrees F +/- 10 degrees and unlimited visibility during
970	daylight. (T) A fully trained and current sniper firing the REPR shall achieve 8 out of
971	10 hits (80% probability) within 1.0 MOA at 1000 meters firing 10 rounds in 10

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SUBJECT TO PROTECTIVE ORDER - KINZER V. REMINGTON

<ul> <li>Rationale: The REPR shall have a minimum safety feature to ensure that the veapon does not fire when the trigger is depressed with the safety in the "SAFE" position. The safety is essential for the veapon system to ensure operator security and safety in combat operations. The safety system should not encumber the operator from maintaining target acquisition, nor should it compromise his position due to audible signatures of switching the weapon system from "SAFE" to "FIRE."</li> <li>(16) Suppressor: The REPR shall have a precision fire, high decibel reduction, quick disconnect sound suppressor that shall reduce audible signal no less than 24db. Accuracy should not be affected by a deviation greater than or equal to a 2 MOA shift from weapon's original zero with a repeatability threshold of 1.0 MOA. The sound/flash suppressor shall add no more than 10 inches to the length of the REPR. The suppressor shall add no more than 20 inches and be obsign installed and removed by the operator in the field with no tools. The attached sound suppressor (when hot) shall have minimal degradation of the operator field of view with primary optic and other visual augmentation systems due to heat mirage and come with a mirage wrap if necessary. (T) The REPR shall have a precision fire, high decibel reduction, quick disconnect sound suppressor that a shall reduce audible signal no less than 35db. Accuracy should not be affected by a deviation greater than or equal to a 1.0 MOA shift from weapon's original zero with a repeatability threshold of 0 MOA. The suppressor (when hot) shall have minimal degradation of the operator field of view with primary optic and other visual due on more than 8.5 inches to the length of the REPR. The suppressor shall weigh no more than 24 ounces and be capable of being installed and removed by the operator in the field with no tools. The attached sound suppressor (when hot) shall have minimal degradation of the operator field of view with primary optic and other visual augmentation syst</li></ul>	1017	
<ul> <li>for the weapon system to ensure operator security and safety in combar operations. The safety system should not encumber the operator from maintaining target acquisition, nor should it compromise his position due to audible signatures of switching the weapon system from "SAFE" to "FIRE."</li> <li>(16) Suppressor: The REPR shall have a precision fire, high decibel reduction, quick disconnect sound suppressor that shall reduce audible signal no less than 24db. Accuracy should not be affected by a deviation greater than or equal to a 2 MOA shift from weapon's original zero with a repeatability threshold of 1.0 MOA. The sound/flash suppressor shall add no more than 10 inches to the length of the REPR. The suppressor shall weigh no more than 30 sources and be capable of being installed and removed by the operator in the field with no tools. The attached sound suppressor (when hot) shall have minimal degradation of the operator field of view with primary optic and other visual augmentation systems due to heat mirage and come with a mirage wrap if necessary. (T) The REPR shall have a precision fire, high decibel reduction, quick disconnect sound suppressor that shall reduce audible signal no less than 35db. Accuracy should no to be affected by a deviation greater than or equal to a 1.0 MOA shift from weapon's original zero with a repeatability threshold of 0 MOA. The sound/flash suppressor shall add no more than 24 ounces and be capable of being installed and removed by the operator in the field with no tools. The attached sound suppressor (when hot) shall have minimal degradation of the operator field of view with primary optic and other visual augmentation systems due to heat mirage and come with a mirage wrap if necessary. (O)</li> <li><b>Rationale:</b> The REPR shall incorporate a sound suppressor in order to allow the scout sniper to stealthily engage multiple targets before the enemy becomes aware that he is suder attack. Further, by reducing the scout sniper's acoustic signature, the chance of t</li></ul>		
<ul> <li>system should not encumber the operator from maintaining target acquisition, nor should if</li> <li>compromise his position due to audible signatures of switching the weapon system from "SAFE" to "FIRE."</li> <li>(16) Suppressor: The REPR shall have a precision fire, high decibel reduction, quick</li> <li>disconnect sound suppressor that shall reduce audible signal no less than 24db.</li> <li>Accuracy should not be affected by a deviation greater than or equal to a 2 MOA shift</li> <li>from weapon's original zero with a repeatability threshold of 1.0 MOA. The</li> <li>sound'flash suppressor shall add no more than 10 inches to the length of the REPR.</li> <li>The suppressor shall weigh no more than 38 ounces and be capable of being installed</li> <li>and removed by the operator in the field with no tools. The attached sound suppressor</li> <li>(when hot) shall have minimal degradation of the operator field of view with primary</li> <li>optic and other visual augmentation systems due to heat mirage and come with a</li> <li>mirage wrap if necessary. (T) The REPR shall have a precision fire, high decibel</li> <li>reduction, quick disconnect sound suppressor that shall reduce audible signal no less</li> <li>than 35db. Accuracy should not be affected by a deviation greater than or equal to a</li> <li>1.0 MOA shift from weapon's original zero with a repeatability threshold of 0 MOA.</li> <li>The sound/flash suppressor shall add no more than 8.5 inches to the length of the</li> <li>REPR. The suppressor shall add no more than 4.5 inches to the length of the</li> <li>suppressor (when hot) shall have a precision fire, high decibel</li> <li>reducting the scout sniper's acoustic signature, the chance of the scout sniper to</li> <li>stabiled and removed by the operator in the field with no tools. The attached sound</li> <li>suppressor (when hot) shall have minimal degradation of the operator field of view with</li> <li>pripected</li></ul>		
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1025       disconnect sound suppressor that shall reduce audible signal no less than 24db.         1026       Accuracy should not be affected by a deviation greater than or equal to a 2 MOA shift         1027       from weapon's original zero with a repeatability threshold of 1.0 MOA. The         1028       sound/flash suppressor shall add no more than 10 inches to the length of the REPR.         1029       The suppressor shall weigh no more than 38 ounces and be capable of being installed         1030       and removed by the operator in the field with no tools. The attached sound suppressor         1031       (when hot) shall have minimal degradation of the operator field of view with primary         1032       optic and other visual augmentation systems due to heat mirage and come with a         1033       mirage wrap if necessary. (T) The REPR shall have a precision fire, high decibel         1034       reduction, quick disconnect sound suppressor that shall reduce audible signal no less         1035       than 35db. Accuracy should not be affected by a deviation greater than or equal to a         1036       1.0 MOA shift from weapon's original zero with a repeatability threshold of 0 MOA.         1037       The sound/flash suppressor shall add no more than 8.5 inches to the length of the         1038       REPR. The suppressor shall adve minimal degradation of the operator field of view with         1040       suppressor (when hot) shall have minimal degradation of the operator field of	1023	
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1026       Accuracy should not be affected by a deviation greater than or equal to a 2 MOA shift         1027       from weapon's original zero with a repeatability threshold of 1.0 MOA. The         1028       sound/flash suppressor shall add no more than 10 inches to the length of the REPR.         1029       The suppressor shall weigh no more than 38 ounces and be capable of being installed         1030       and removed by the operator in the field with no tools. The attached sound suppressor         1031       (when hot) shall have minimal degradation of the operator field of view with primary         1032       optic and other visual augmentation systems due to heat mirage and come with a         1033       mirage wrap if necessary. (T) The REPR shall have a precision fire, high decibel         1034       reduction, quick disconnect sound suppressor that shall reduce audible signal no less         1035       than 35db. Accuracy should not be affected by a deviation greater than or equal to a         1036       1.0 MOA shiff from weapon's original zero with a repeatability threshold of 0 MOA.         1037       The sound/flash suppressor shall weigh no more than 8.5 inches to the length of the         1038       REPR. The suppressor shall weigh no more than 8.5 inches to the length of two with         1039       instatled and removed by the operator in the field with no tools. The attached sound         1040       suppressor (when hot) shall have minimal degradation of the operator field	1025	
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<ul> <li>survivability. It is essential that the REPR be tested and evaluated with a suppressor as it is</li> <li>projected to be used at least 80% of the time in this configuration. Due to this, barrel life,</li> <li>precision, and reliability could be adversely affected. These requirements for a suppressor</li> <li>reflect the standards necessary for capability generation and were modified from established</li> <li>standards for the Army Semi-Automatic Sniper System and SOF's Precision Sniper Rifle.</li> <li>(17) Optics: The REPR shall be compatible with all current scout sniper optics and</li> <li>utilize the M8541 SSDS. (T = O)</li> <li><b>Rationale:</b> The REPR system shall incorporate the optics utilized within current inventory and</li> <li>should support any upgrades to optic devices throughout the life-cycle of the REPR weapon</li> <li>system</li> <li>(18) Magazine: The REPR shall use a 20 round magazine that does not require special</li> </ul>		
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1061 (18) <i>Magazine</i> : The REPR shall use a 20 round magazine that does not require special		system
tools to load. The magazine shall be able to be disassembled, cleaned, and reassembled		
	1062	tools to load. The magazine shall be able to be disassembled, cleaned, and reassembled

1063 1064 1065 1066 1067	by the operator in field conditions. (T) The REPR shall use a magazine with more than 20 rounds that does not require special tools to load or adversely affect system capabilities. The magazine shall be able to be disassembled, cleaned, and reassembled by the operator in field conditions. (O)
1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078	<b>Rationale:</b> The magazine is an important component to the achievement of the REPR's primary mission of rapid engagement. The capacity of the primary magazine must be sufficient to support rapid engagement of multiple targets or of rapid defensive/offensive fires in break-contact/ambush type scenarios where a premium is placed on a high volume of accurate fire. Testing of the REPR with the magazines it shall be procured with is essential as past research has demonstrated that magazines are a leading cause of weapon malfunctions that reduce reliability. The threshold of 20 rounds is based on the amount of area (20) 7.62x51mm rounds double stacked in a magazine require. This is currently an industry standard as any larger magazines have tended to obstruct firing especially in the prone position by elevating the muzzle of the weapon in an M-16 like configuration.
1078 1079 1080 1081 1082 1083 1084	(19) <i>Reload Time</i> : The REPR shall be reloadable by a trained operator in the prone position with a ready magazine in less than 5 seconds from the moment the magazine release is activated to the resumption of firing. (T) The REPR shall be reloadable by a trained operator in the prone position with a ready magazine in less than 3 seconds from the moment the magazine release is activated to the resumption of firing. (O)
1084 1085 1086 1087 1088 1089 1090 1091 1092	<b>Rationale:</b> Rapid engagement is an essential capability the REPR provides scout snipers. Although 20 rounds immediately available in a filled magazine is significant, sustained heavy combat, especially while in contact with enemy forces in close restrictive terrain, will require rapid reloads. This is essential for maximum lethality as well as the survivability of the scout sniper. The standard is measured from the prone position as this is the most likely and most stable of doctrinal shooting positions for scout snipers as well as the most difficult firing position in which to load an individual weapon.
1092 1093 1094 1095 1096 1097 1098 1099	(20) Rail System: The REPR shall have a modular MIL-STD-1913 quad forward rail system that is integral to the upper receiver. The top rail shall have numbered rail slots. The 12, 3, and 9 o'clock rails must be capable of maintaining sights zeros while conducting routine firing combined with combat movement and operational training drills. (T) The top rail shall have a 30-minute depreciation to allow for increased usable range of SSDS. (O)
1100 1101 1102 1103 1104 1105 1106	<b>Rationale:</b> The REPR shall maintain a MIL-STD-1913) flat top upper receiver with numbered rail slots to support the number of available accessories that enhance the effectiveness of individual weapons. The rail system shall be utilized to incorporate ancillary equipment such as thermal devices, night optics, and other optical devices to enhance the accuracy and lethality of the sniper. The threshold value for available accessory points is matched to the M16A4 service rifle.
1100 1107 1108	(21) <i>Ergonomic Enhancements</i> : The REPR should have an adjustable stock and cheek-piece that shall accommodate shooter length of pull adjustments/optics

1109	alignment. The adjustable stock shall accommodate cheek weld, stock weld, and eye
1110	relief of the 5 <sup>th</sup> -95 <sup>th</sup> percentile of Marines. The stock must not interfere with the
1111	charging handle or cycle of operations of the weapon in any configuration. (T) The
1112	REPR shall have a folding/locking stock. The buttstock when folded shall not interfere
1113	with the operation of the weapon. The stock shall be adjustable and have an adjustable
1114	cheek-piece that shall accommodate shooter length of pull adjustments/optics
1115	alignment. The adjustable stock shall accommodate cheek weld, stock weld, and eye
1116	relief of the 5 <sup>th</sup> -95 <sup>th</sup> percentile of Marines. The stock must not interfere with the
1117	charging handle or cycle of operations of the weapon in any configuration. (O)
1118	
1119	Rationale: The REPR system shall incorporate ergonomic enhancements to increase the
1120	lethality and precision capability of the operator. For the operator to perform at optimal
1121	performance it is mission critical that the stock of the weapon system be adjustable to various
1122	operational environments.
1123	
1124	(22) Forward Assist: The REPR shall include a forward assist. $(T = O)$
1125	
1126	Rationale: The REPR shall incorporate a forward assist to ensure that proper functioning of the
1127	weapon system is maintained in operations. Previous semi-automatic sniper rifles have
1128	disregarded this function and have led to serious maintenance issues that could have led to or
1129	caused mission critical maintenance problems.
1130	
1131	(23) Brass Deflector: The REPR shall incorporate a brass deflector. $(T = O)$
1132	
1133	Rationale: The REPR shall incorporate a brass deflector to ensure proper functioning of the
1134	semi-automatic fire used by the weapon system. The brass deflector will ensure operator safety
1135	during operations and discharging of the weapon system.
1136	

#### 1137 **6.2.** ADDITIONAL ATTRIBUTES

1138

#### Table 7. Additional Attributes

Additional Attributes	Threshold	Objective
Cleaning	The deployment and cleaning kits should include all tools required for operator and organizational-level maintenance. The REPR shall be equipped with a deployment kit and a compact cleaning kit for general field maintenance and cleaning. The REPR shall be equipped with a cleaning kit that includes any tools needed to conduct routine maintenance, operator field repairs, operator field parts replacement and weapons system setup. Required: a one piece plastic coated cleaning rod with bore/chamber guides and matching jags (one bronze phosphor brush, and one patch jag), one plastic bore guide, no lint patches, CLP (must be compatible with CLP), one plastic bristle brush, one take down field cleaning rod and pull through combination fabric/bronze bore snake. (T =	The deployment and cleaning kits shall include all tools required for operator and organizational-level maintenance. The REPR shall be equipped with a deployment kit and a compact cleaning kit for general field maintenance and cleaning. The REPR shall be equipped with a cleaning kit that includes any tools needed to conduct routine maintenance, operator field repairs, operator field parts replacement and weapons system setup. Required: a one piece plastic coated cleaning rod with bore/chamber guides and matching jags (one bronze phosphor brush, and one patch jag), one plastic bore guide, no lint patches, CLP (must be compatible with CLP), one plastic bristle brush, one take down field cleaning rod and pull through combination

Additional Attributes	Threshold	Objective
	O)	fabric/bronze bore snake. (T = O)
Sling	The REPR shall have a detachable, adjustable, ambidextrous, synthetic cuff sling with attachment points at various (high, mid, low) on the rear end. The sling/sling mounts shall allow the weapon to be slung in the standard carry and single mid point. The sling/sling mounts shall not interfere with accessories, shouldering, aiming, and acquiring sight picture both day and night. The REPR must also be compatible with USMC standard issue 3-point sling. (T = O)	The REPR shall have a detachable, adjustable, ambidextrous, synthetic cuff sling with attachment points at various (high, mid, low) on the rear end. The sling/sling mounts shall allow the weapon to be slung in the standard carry and single mid point. The sling/sling mounts shall not interfere with accessories, shouldering, aiming, and acquiring sight picture both day and night. The REPR must also be compatible with USMC standard issue 3- point sling. (T = O)
Bipod	The REPR shall have a detachable bipod with a locking feature to prevent inadvertent collapsing or shortening of the bipod legs. When in the stowed position, bipod shall be foldable with the right or left hand and not interfere with mounted accessories at the 3, 9, and 12 o'clock positions. The bipod shall have independently adjustable legs that can be manipulated with one hand. The bipod shall facilitate left or right tracking and have cant adjustment. The feet shall be configured to accommodate surfaces such as ice, snow, sand, mud, earth, stone, and concrete. (T = O)	The REPR shall have a detachable bipod with a locking feature to prevent inadvertent collapsing or shortening of the bipod legs. When in the stowed position, bipod shall be foldable with the right or left hand and not interfere with mounted accessories at the 3, 9, and 12 o'clock positions. The bipod shall have independently adjustable legs that can be manipulated with one hand. The bipod shall facilitate left or right tracking and have cant adjustment. The feet shall be configured to accommodate surfaces such as ice, snow, sand, mud, earth, stone, and concrete. (T = O)
Storage Kit	The REPR shall come with a hard case suitable for storage and transport that holds all operationally required accessories. The REPR shall also come with a soft case. (T)	The REPR shall come with a hard case suitable for storage and transport that holds all operationally required accessories. The REPR shall also come with a soft case. (O)
Drag Bag	A drag bag shall be provided for man-pack infiltration. REPR shall be compatible with current issue. (T = O)	A drag bag shall be provided for man-pack infiltration. REPR shall be compatible with current issue. (T = O)
Manuals	The REPR shall be provided with manufacturer Interactive Electronic Technical Manuals (IETM), operator and organizational- level maintenance manuals with government oversight, and a weatherproof sniper data book for each weapon. (T = O)	The REPR shall be provided with manufacturer Interactive Electronic Technical Manuals (IETM), operator and organizational-level maintenance manuals with government oversight, and a weatherproof sniper data book for each weapon. (T = O)

1139

#### 1140 7. FOS AND SOS SYNCHRONIZATION

a. Relationship of this system to other systems contributing to this capability: The Scout Sniper
ICD is supported by the addition of the REPR CPD. The REPR shall support this by providing a
long range semi-automatic precision capability for scout snipers. This solves one of the two
aritical material same identified by the Scout Sniper ICD.

1144 critical materiel gaps identified by the Scout Sniper ICD.

b. The REPR shall support the MERS ICD. The REPR provides additional firepower (lethal andprecise) to scout snipers supporting the infantry squad in the offense and defense.

1147 c. The REPR also complements the Army's Soldier as a System (SaaS) ICD- Lethality. The 1148 SaaS must provide individual Soldiers the capability to detect, identify, and kill - or achieve

- 1149 desired effects against selected targets throughout the full spectrum of military operations,
- 1150 under all climatic conditions, and in all operational environments. SaaS must provide lethal and
- non-lethal capabilities to accomplish those tasks. In the world of joint operations across the
- 1152 ROMO, the REPR shall support the Army to this effect.
- 1153

#### Table 8. Supported ICDs and Related CDDs/CPDs

Capability	CPD Contribution	Related CDDs	Related CPDs	Tier 1 & 2 JCAs
Scout Sniper ICD: The ability to effectively engage personnel with precision	Mitigates identified materiel gap in the ability to rapidly engage multiple targets with precision. Rapid engagement is especially critical in urban environments.	None	None	Force Application (Maneuver, Engagement); Protection (Prevent Kinetic Attack)
Scout Sniper ICD: The ability to conduct patrols	Increased range, precision, and firepower (rapid fire capability) allows patrols to engage larger units from longer range with increased lethality, which allows for greater survivability. Reduces load by removing need to carry 2 weapons (one for precision long range engagement and the other for defense). Provides increased defensive capability to scout sniper teams via increased firepower.	None	None	Force Application (Maneuver, Engagement); Protection (Prevent Kinetic Attack)
Scout Sniper ICD: The ability to conduct counter- sniper operations	Precision rapid engagement allows for scout snipers to engage enemy snipers/sniper teams with the maximum volume of precision fire increasing lethality while also increasing the survivability of the scout sniper team	None	None	Force Application (Maneuver, Engagement); Protection (Prevent Kinetic Attack)
Scout Sniper ICD: The ability to engage hardened or materiel targets with precision	Reduces capability gap by improving the ability to effectively engage materiel targets. REPR's increased firepower allows for effective engagement of targets that may require multiple hits in rapid succession to destroy, neutralize, or suppress.	None	None	Force Application (Maneuver, Engagement); Protection (Prevent Kinetic Attack)
Soldier as a System ICD (Army):	Complements Army's efforts to increase the soldier's ability to detect, identify, and kill – or achieve the desired effects against – selected targets throughout the ROMO through improve accuracy, increased range, increased lethality, and the ability to rapidly engage multiple targets.	Ground Soldier (Army)	SASS (Army)	Force Application (Maneuver, Engagement); Protection (Prevent Kinetic Attack)
Marine Expeditionary Rifle Squad ICD:	Provides a weapon platform that offers both precision long range fire and rapid high volume fire for offensive and defensive engagements. The ability for its use in an overwatch or counter-sniper role increases the MERS ability to maneuver on the battlefield. Both combine to reduce the effect of MERS identified gap #2 (Move).	None	None	Force Application (Maneuver, Engagement); Protection (Prevent Kinetic Attack)

1154

# 11558.INFORMATION TECHNOLOGY SYSTEM AND NATIONAL SECURITY1156SYSTEMS (IT AND NSS) SUPPORTABILITY

1157 Not applicable. This capability does not have a requirement to collect or transmit information.

#### 1158 9. INTELLIGENCE SUPPORTABILITY

1159 Not applicable. This capability will not require the production, consumption, processing, or1160 handling of intelligence data.

# 116110.ELECTROMAGNETIC ENVIRONMENTAL EFFECTS (E3) AND SPECTRUM1162SUPPORTABILITY

1163The REPR shall be capable of operating in an electromagnetic rich battlefield and does not1164require hardening against the effects of an electromagnetic pulse. This includes not initiating

1165 interference with other electronic equipment worn or used by the war-fighter as well as not being 1166 affected when operated in proximity to other equipment.

#### 116711.**TECHNOLOGY READINESS**

1168 No Technology Readiness Assessment (TRA) has been conducted for the system in its entirety 1169 as the REPR will be procured as a COTS NDI. Component items such as the SSDS and 1170 SSMRNS are currently fielded items and will not require any other TRAs. Nearly all of the 1171 technology used in the required system has been demonstrated to be mature in relevant 1172 operational environments. The Semi-Automatic Sniper Rifle (SASS) fielded by the U.S. Army 1173 and the MK11 MOD1 purchased to support immediate OIF and OEF needs by SOF and the 1174 USMC validate the maturity of this technology in a man portable weapon system. Further, the 1175 technologies required for the REPR will provide an affordable increment of capability and are producible at an acceptable cost and production rate. In summary, because of the maturity of the 1176 1177 technologies being used in the system, no independent TRA is planned for the program.

# 1178 **11.1. Critical Technology Elements**

A technology is "critical" if the system being acquired depends on this technology to meet
capability thresholds. This technology must meet acceptable developmental costs and schedules
as well as support acceptable production and operation costs if the technology or its application
is either new or novel. As none of the technologies being employed by the REPR are new or
novel, there are no critical technology elements in the system.

# 1184 **11.2. MANUFACTURING READINESS**

1185 The DoD has developed Manufacturing Readiness Levels (MRLs) in order to support

assessments of the maturity of the design, related materiel, tooling, test equipment,

1187 manufacturing processes, quality and reliability levels, and key characteristics necessary for

1188 producible and reliable products. MRL definitions are based on the integration of existing

1189 industry, government agency, and technical coalition standards and recommendations to address

1190 producibility concerns earlier in the development phase (e.g., Engineering and Manufacturing

1191 Readiness Levels the Milestone Decision Authority (MDA) uses).

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1192 While minor design changes may still occur on behalf of industry in its efforts to tailor COTS 1193 technology to meet the specific requirements directed by this CPD in the REPR, it has been 1194 established that no significant manufacturing risk exists and that industrial capabilities are 1195 reasonably available. Each potential REPR system submitted by industry during a full and open 1196 competition shall be tested and evaluated for technical manufacturing feasibility and military 1197 utility. All technologies, processes, concepts, and end items shall be further evaluated to reduce manufacturing risk and demonstrate producibility prior to procurement and full-rate production. 1198 Critical manufacturing processes have been initially demonstrated for the relevant environments 1199 1200 using generally mature processes and tooling.

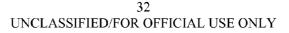
#### 1201 12. ASSETS REQUIRED TO ACHIEVE FULL OPERATIONAL CAPABILITY

Full Operational Capability (FOC) for the REPR will be achieved when the following units havebeen issued their full allocation as depicted in the table below.

1204

#### Table 9. REPR FOC Quantities

	Tuble 3. ALL AT CO Quantitues	
Unit	Distribution Concept	Quantity
Infantry Battalions	36 Battalions receiving 8 weapons each supporting standard 8 scout sniper	288
	teams	
AT Battalion (Reserves)	Supports unit distribution throughout the country and how its teams are employed	8
1 <sup>st</sup> Recon	4 platoons, 1 rifle per team	48
2 <sup>nd</sup> Recon	4 platoons, 1 rifle per team	48
3 <sup>rd</sup> Recon	Supported by TOECR Distant Co 27 and Deep Co 9	36
4 <sup>th</sup> Recon	4 platoons, 1 rifle per team	45
3 <sup>rd</sup> Force	4 rifles per company	12
4 <sup>th</sup> Force	4 rifles per company	12
SOTG	2 per SOTG (I, II, III)	6
MARSOC	Based on 10 Jan 2007 Spreadsheet	138
Quantico	Supports current throughput of students	33
SOI East	Supports current throughput of students	33
SOI West	Supports current throughput of students	33
Hawaii	Supports current throughput of students	33
Aberdeen	Based on standard student throughput of 12 students with 1 instructor	13
MCSC	OTF Support weapons	2
MWTC	Supports Instruction for High Angle Shooting Courses	2
MAGTF (CAX)	Supports Instruction at CAX	2
MCB Sec Bn, California	Supports MP Unit	2
HQ Co HQBN, 1 <sup>st</sup> MARDIV	Supports MP Unit	2
HQ Spt Bn CLNC	Supports MP Unit	2
HQ Co, HQBN, 2 <sup>nd</sup> MARDIV	Supports MP Unit	2
DMFA	Provided	79
WRMR	Provided	110
	Total	989



# 120613.SCHEDULE AND INITIAL OPERATIONAL CAPABILITY (IOC) / FOC1207DEFINITIONS

#### 1208 **13.1. INITIAL OPERATIONAL CAPABILITY**

- 1209 The desired IOC is by the end of the second quarter of FY09. IOC will be attained when the 1210 REPR systems attain the following conditions:
- Marine Corps Training and Education Command (TECOM) and the Scout Sniper School have updated and formalized the program of instruction (POI) to reflect adequate training on the operation and effective employment of the REPR;
- The Scout Sniper Schools, including Special Operations Training Group (SOTG),
   Mountain Warfare Training Center (MWTC), and Marine Air-Ground Task
   Force/Combined Arms Exercise (MAGTF/CAX) have their full allocation of weapon
   systems with all training and field manuals;
- The Scout Sniper Schools have all necessary maintenance personnel trained with an adequate quantity of applicable consumable supplies and repair parts on-hand;
- Effective supplies of applicable ammunition Department of Defense Identification Codes
   (DODICs) are on hand across the supply system to support full operational capability;
- When approximately 25% or 249 weapon systems have been fully fielded. [Nine Battalions will receive eight weapons a piece, recon will receive eight, force recon will receive 12, all the scout sniper schools including SOTG and MWTC will receive their full allotment of 140, the MAGTF (CAX) will receive two, and Aberdeen and Marine Corps Systems Command (MCSC) will their full allotment of (15)];
- Maintenance technicians / armorers have been trained and equipped with an adequate
   supply of spare parts, consumables, and any specialized tools; and
- The supply system is capable of responding in a timely manner to additional REPR needs.

1231 An IOC will be achieved when approximately 25% or 249 weapon systems have been fully 1232 fielded. [Nine Battalions will receive eight weapons a piece, recon will receive eight, force 1233 recon will receive 12, all the scout sniper schools including SOTG and MWTC will receive their 1234 full allotment of 140, the MAGTF CAX will receive two, and Aberdeen and MCSC will their 1235 full allotment of 15]. Further, this weapon system shall first be fully fielded to the school houses 1236 before the operational forces are delivered theirs. This will prevent unnecessary and costly 1237 damage to the systems as a result of use by untrained / poorly trained operators as well as failure 1238 during operations as a result of incorrect employment or maintenance again by untrained / poorly 1239 trained operators.

1240

#### 1241 **13.2.** FULL OPERATIONAL CAPABILITY

- 1242 FOC will be attained when:
- All Marine Units having an authorization in the above table have been 100% supplied;

- The REPR is fully integrated into the force structure; and
- All spares and supply inventories are in place (including Depot Maintenance Afloat
- 1246 Allowance (DMFA) and War Reserve Materiel Requirement (WRMR).
- 1247 The desired FOC is the end of the 4<sup>th</sup> Quarter of FY09.

1248 Marine Corps wide, a total of 989 REPR weapon systems will be fielded to achieve a FOC, 1249 which is based on providing each Marine Corps unit their full table of equipment (T/E) of sniper weapons based on current tables of organization (T/O). This FOC mirrors the current FOC for 1250 1251 the M40A3, which directly correlates to what units are issued. Of the total 989, 19% will go to 1252 the DMFA and the WRMR for a total of 189 weapon systems. The rest, 81% (total of 800 1253 weapon systems) will be fielded with the operational forces and school houses. The fielded 1254 weapons shall be in a full operational or "up" status continuously throughout their estimated 1255 20,000-30,000 round life span except for routine operator maintenance and Military 1256 Occupational Specialty (MOS) 2111 safety and maintenance inspections. This assumes that MOS 2111's are fully trained on the system and that a full supply of parts and spares will be 1257 1258 available in the supply inventories at all echelons of maintenance and that forward operational units will deploy with a full parts block. From initial fielding to reaching FOC it shall take no 1259 1260 more than 12 months (Threshold) / 6 months (Objective).

#### 1261

- 1262 **13.3.** SCHEDULE
- 1263

 Table 10.
 Rapid Engagement Precision Rifle Program Schedule

Event	Threshold	Objective
CPD Approval		Mid FY08
RFP/Solicitation		Mid FY08
Initial Developmental Test		Late FY08
Down-Select Operational Test		Late FY08
Contract Award		Late FY08
Follow-On Developmental Test (First Article Units)		FY09
Milestone C		FY09
IOC/RAA		Mid FY09
FOC		End of FY 09

1264

# 1265 14. OTHER DOTMLPF AND POLICY CONSIDERATIONS

# 1266 **14.1. DOCTRINE**

The REPR shall provide enhanced firepower and lethality to a scout sniper team. For optimized
 effective employment, TECOM, in conjunction with the Scout Sniper School, must review and
 re-evaluate team employment and equipment requirements.

# 1270 **14.2. O**RGANIZATION

1271 No change to organization.

#### 1272 **14.3.** TRAINING

1273 (1) System Training Plan shall be developed by appropriate Marine Corps authority.

1274 (2) New Equipment Training (NET): Contractors, under the oversight of TECOM and MCSC

1275 will conduct NET using a "train-the-trainer" concept. Training will focus on the functional

1276 performance and new training strategies associated with the REPR. The program will qualify all

1277 operators and maintainers in the field. NET will continue until all units have been fielded.

1278 Training Support Packages (TSPs) will be provided to the unit during NET for unit sustainment 1279 training.

1280 (3) Specific Training in the Institutional Training Base: The Scout Sniper School, Quantico is the parent school for Sniper training inside the USMC. Institutional training will be conducted 1281 here as well as across the other USMC Scout Sniper Schools to provide the USMC and other 1282 1283 select individuals from across the Joint Services and agencies with qualified Snipers. The USMC Scout Sniper School POI will be modified by USMC scout sniper SMEs and approved by 1284 1285 TECOM to address the enhanced capabilities of the REPR. The USMC scout sniper POI will be 1286 restructured to reflect the addition of the REPR capabilities into the scout sniper area of 1287 operations. The POI addition will effectively outline guidelines for evaluation of the scout 1288 snipers ability to employ the system in a target rich environment under all military operational 1289 environments and conditions. The SME and training developers will use the information and 1290 knowledge gained from the testing and evaluation phases during source selection as the basis for 1291 modifying the TSP, training POI, and employment doctrine. MOS 2111 producing schools shall 1292 also incorporate the REPR into its POI.

(4) Operation and Maintenance: All weapons shall come with operator/maintenance manuals
that detail all procedures to include zeroing of accessories. The program office will provide all
applicable training, manuals, guidance, and other logistics support. Overall design of the REPR
shall promote ease of maintenance through easy accessibility of assemblies and subassemblies
for servicing, maintenance, removal, and replacement.

# 1298 **14.4. MATERIEL**

Additional materiel required include inspection gauges, test equipment, and special tools as
 defined by the system. The capability set must take into consideration the extreme climate
 design types which a Marine may operate within.

# 1302 **14.5.** LEADERSHIP AND EDUCATION

Proper leadership and education will maximize the capability enhancing effects of the REPR.
The M40A3 even with proper leadership and education can not provide the capabilities of the

1305 REPR due to materiel limitations. The integration of the REPR into the school house curriculum

1306 for maintenance, repair, operation, and employment will be required.

### 1307 **14.6. PERSONNEL**

1308 Current MOS and skill level standards adequately support the doctrinal and TTP employment of

- 1309 scout snipers. No additional MOSs or increases in the number of MOSs employing sniper
- 1310 systems are needed. The REPR will be employed under the same doctrinal principles currently
- 1311 in use by trained scout sniper team personnel.

#### 1312 **14.7.** FACILITIES

1313 No additional facilities are anticipated to store or support training with the REPR. Current

1314 armories may, however, require fabrication or modification of weapons racks to best support the

1315 safe and secure storage of the weapon systems. Ranges being utilized for training of scout

1316 snipers are adequate to support this system however, school houses and parent units may choose

1317 to invest in rapid engagement pop-up style targets to enhance training on the expanded

1318 capabilities this system provides (rapid precision fire).

# 1319 15. OTHER SYSTEM ATTRIBUTES

# 1320 15.1. CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR (CBRN) CONTAMINATION 1321 SURVIVABILITY (CBRNCS)

1322 The REPR system is mission critical. The equipment will survive the initial nuclear effects of

blast, thermal and initial nuclear radiation to the same levels where 50% of the personnelavailable to operate them survives the nuclear effects in accordance with Standardization

1325 Agreement (STANAG) 4145/AEP-4 (Threshold).

1326 *Rationale:* All front line combat systems such as tanks, howitzers, armored personnel carriers,

1327 etc., must be survivable against all initial nuclear weapons effects (INWE) at the levels where a

1328 combat effective percentage of the crew survives. Therefore, because the Marine as a system is

1329 considered a front line mission critical combat system, the REPR should address survivability of

1330 all INWE as threshold requirements.

# 1331 15.2. NUCLEAR, BIOLOGICAL, AND CHEMICAL CONTAMINATION SURVIVABILITY (NBCCS)

1332 The REPR system is mission critical. The equipment shall be capable of operations in an NBC 1333 contaminated environment. The system shall be able to withstand the materiel-damaging effects 1334 of NBC contaminants and decontaminants; be able to be decontaminated to negligible risk levels 1335 to reduce hazards to Marines operating and maintaining it; and be able to be operated, and

maintained by Marines wearing full NBC protective ensemble (Mission-Oriented Protective

Posture (MOPP) 4), as prescribed in Department of the Army Approved NBC Criteria for Army

1338 Materiel, 12 Aug 91. (T=O)

1339 Rationale: AR 70-75 requires all mission critical equipment to be NBC Contamination

1340 Survivable. The cited reference provides specific criteria levels to meet NBCCS survivability
 1341 requirements

1342

# 1343 **15.3.** CLIMATIC CONDITIONS

The REPR must be operational and maintainable in all types of climate and terrain to which U.S. forces deploy or are stationed. The REPR must be capable of operating during full exposure to temperatures ranging from minus 25 degrees Fahrenheit (F) to 160 degrees F. The REPR must operate in all weather conditions, to include salt fog. The REPR shall have no unique weather, oceanographic or astro-geophysical support requirements.

1349 **15.4.** Embedded Instrumentation

1350 There are no anticipated requirements for embedded instrumentation.

#### 1351 **15.5.** AIRDROP OPERATIONS

1352 The REPR shall be rugged enough such that it is not adversely affected by all approved airdrop1353 operations.

#### 1354 **15.6. MARINE SURVIVABILITY**

1355 The REPR shall not have any unique signatures that allow detection by hostile forces.

#### 1356 **15.7. MAINTENANCE PLANNING**

1357 The REPR shall be designed to facilitate ease of maintenance. The REPR will be maintained 1358 under three echelons of maintenance - operator (individual), organizational (unit), and 1359 intermediate (manufacturer or MOS 2112 precision armorer) echelons. Operator maintenance 1360 will consist primarily of day to day maintenance and inspection. Organizational maintenance 1361 will consist of those repairs conducted by an MOS 2111 at the unit level whether deployed or in garrison with the expectation that the system will not leave the parent unit and will be returned 1362 1363 promptly to the user. Intermediate level maintenance will consist of those repairs conducted by 1364 an MOS 2112 precision armorer or ones that require the REPR to be returned to the supply system or manufacturer for extensive upgrades, repairs, inspections, or overhauls. Interim 1365 1366 Contractor Logistics Support (ICLS) may be considered as an alternative for both deployed unit and depot level maintenance. Supply support will be provided by the most effective method 1367 available. If applicable, ICLS supply and maintenance transactions and documentation will 1368 1369 interface with Standard Army Management Information System (STAMIS). Actual maintenance 1370 levels and tasks will be determined through the Supportability Analysis (SA) process. The 1371 REPR system will not require a new logistics system or new MOSs for maintenance personnel. 1372 All weapons will come with operator/maintenance manuals that detail all procedures to include 1373 zeroing of accessories. The program office will provide all applicable training, manuals, 1374 guidance, and other logistics support. Overall design of the REPR shall promote ease of 1375 maintenance through easy accessibility of assemblies and subassemblies for servicing, 1376 maintenance, removal, and replacement.

Maintenance Man-Hour Requirement / Maintenance Manpower Support. Each REPR will not
require maintenance manpower support from the Marine Corps Table of Organization and
Equipment (TOE) maintainers in excess of 3.8 Direct Productive Maintenance Man-Hours
(DPAMMH) at the operational level of support. The REPR will not require maintenance
manpower in excess of that which is authorized on an annual basis for repair of the current
M40A3 Sniper Weapon System, which the REPR will augment.

# 138315.8. HUMAN SYSTEMS INTEGRATION / MANPOWER AND PERSONNEL INTEGRATION1384(MANPRINT)

1385 (1) Environmental Compliance Requirement. The user of the REPR shall have the ability to

1386 field, train, deploy, operate, maintain, and dispose of the system in full compliance with

1387 applicable U.S., foreign and international environmental laws and regulations. The design,

1388 production, operation, maintenance, and disposal of the system shall eliminate, or minimize, to

- the greatest extent possible, the use of hazardous materials, generation of hazardous wastes, and
- 1390 potential for adverse environmental impacts.

(2) Human Factors Engineering. The REPR shall be designed for use by the 5<sup>th</sup> to 95<sup>th</sup> stature
percentile target audience Marine. Sound human engineering principles will be used in system
design to ensure that target audience, Marines (operators and maintainers), are capable of
performing required tasks with 95 percent reliability and accuracy to ensure optimal total system
performance. Human capabilities and limitations shall be incorporated into system definition,

1396 design, development, and evaluation.

(3) Training. The instruction and resources required providing the Marine and maintainer with
knowledge, skills, and abilities to properly operate, maintain, and support systems shall not be
significantly increased as a result of the introduction of the REPR.

(4) System Safety. The REPR design and operational characteristics shall minimize thepossibilities for accidents or mishaps caused by human error or system failure.

(5) Health Hazards. Through the systematic application of biomedical knowledge to identify,
assess, and minimize health hazards associated with the system's operation, maintenance, repair
or storage, the REPR shall not present any uncontrolled health hazards to the operator or
maintainer through its service lifetime.

(6) Marine Survivability. The REPR will have a positive effect on the overall survivability of
the individual combat Marine by providing a more capable system to augment the existing
M40A3. The sniper survivability on the battlefield is increased through precision rapid fire that
is sound and flash suppressed.

#### 1410 **15.9.** TRANSPORTABILITY AND STORAGE

The REPR system shall be capable of deploying by air, land, and sea on standard military craft, vessels, and vehicles. The REPR shall withstand the effects of salt spray, salt fog, and fungi as well as temperatures and altitudes associated with military storage and transportation without degrading system reliability and without requiring preventive maintenance higher than the operator level.

# 1416 16. PROGRAM AFFORDABILITY

1417 Research Development Testing and Evaluation costs are driven primarily by the projected

- expenditure of at least 15,000 rounds per weapon during testing and evaluation as well as
- 1419 procurement of the systems to test.
- 1420 Procurement, Marine Corps cost is driven primarily by the unit cost of each weapon and

ammunition. Total procurement of at least 989 weapon systems for FOC was used as a baseline

- 1422 for costing although 800 weapon systems were used to baseline ammunition expenditures for
- 1423 "fielded" weapons. This is based on FOC minus the number of weapons stocked as spares and
- 1424 war reserves (189). An estimate of 2,000 rounds of training ammunition per fielded weapon per
- 1425 year was the major ammunition cost driver.

1427 Operations and Maintenance, Marine Corps cost was driven primarily by sustainment overhauls.

1428 The estimate was based on a projected replacement of the weapons' upper receiver every five

1429 years at school houses and every ten years for the remaining fielded weapons. Cost of overhaul

1430 was estimated at 60% of the unit cost of the weapon. Consumables and program management

1431 were also drivers, but were of a minimal impact compared to the overall cost of sustainment

1432 overhauls.

1433 There is an increased cost related to the total munitions requirement. This increase of  $\sim 1.6$ 

1434 million rounds per year will result in an additional cost of ~\$1.136 million in PAN&MC funding.

1435 These numbers are based on providing 2000 training rounds for each of the fielded 800 rifles at

- 1436  $\sim$ \$.71 per round.
- 1437

# Table 11. Program Cost

#### Base Year (FY 2008 \$K)

Item	Objective	Threshold	
RDT&E	\$533.8	\$561.5	
РМС	\$23,121.1	\$26,181.8	
O&MMC	\$4,946.1	\$6,989.9	
PAN&MC	\$1,136.0	\$1,136.0	
Total	\$29,7370	\$24,869.2	

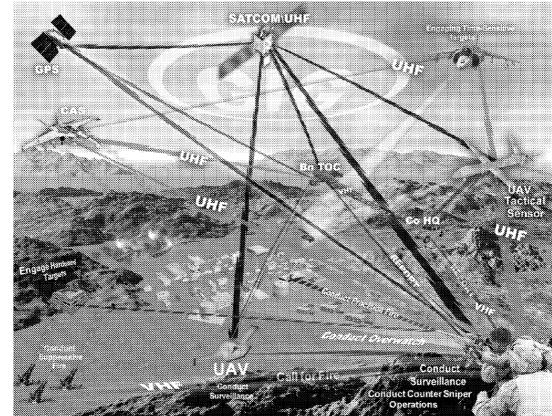
#### Average Prototype Unit Cost (FY 2008 \$K)

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Item	Objective	Threshold
REPR Weapon System	\$5.9	\$9.1

1438

1439 \* with Optic (SSDS)



#### **APPENDIX A - MANDATORY ARCHITECTURE FRAMEWORK** 1440

 $\begin{array}{c} 1441 \\ 1442 \end{array}$ \*OV-1 Depicts overarching scout sniper capability. REPR shall primarily support the "Conduct Precision Fire" capability.

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1545

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# Appendix C - Acronyms

AAR	After Action Reviews
ATGM	Antitank Guided Missile
CAX	Combined Arms Exercise
CBA	Capabilities Based Assessment
CBRN	Chemical, Biological, Radiological, and Nuclear
CBRNCS	Chemical, Biological, Radiological, and Nuclear
	Contamination Survivability (CBRNCS)
ССЈО	Capstone Concept for Joint Operations
CDD	Capabilities Development Directorate
CJCSI	Chairman of the Joint Chiefs of Staff Instruction
CLS	Contractor Logistic Support
COA	Course of Action
COIN	Counterinsurgency
COTS	Commercial Off The Shelf
CPD	Capability Production Document
CQC	Close Quarters Combat
DMFA	Depot Maintenance Afloat Allowance
DO	Distributed Operations
DODIC	Department of Defense Identification Code
DOTMLPF	Doctrine, Organization, Training, Materiel, Leadership and
	Education, Personnel, Facilities
DPAMMH	Direct Productive Maintenance Man-Hours
DVD	Direct Vendor Delivery
EMW	Expeditionary Maneuver Warfare
FAA	Functional Area Analysis
FMID	Fires and Maneuver Integration Division
FOC	Full Operational Capability
FoS	Family of Systems
FY	Fiscal Year
ICD	Initial Capabilities Document
ICLS	Interim Contractor Logistics Support
IETM	Interactive Electronic Technical Manuals
INWE	Initial Nuclear Weapons Effects
IOC	Initial Operating Capability
IT	Information Technology
IW	Irregular Warfare
JCA	Joint Capability Area
JIC	Joint Integrating Concepts
JOC	Joint Operation Concepts
KE	Kinetic Effect
KPP	Key Performance Parameter
LRIP	Low Rate Initial Production
MAGTF	Marine Air-Ground Task Force
MANPRINT	Manpower and Personnel Integration
MARSOC	Marine Special Operations Command

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MOODO	
MCCDC	Marine Corps Combat Development Command
MCCLL	Marine Corps Center for Lessons Learned
MCIA	Marine Corps Intelligence Agency
MCMP	Marine Corps Marksmanship Program
MCO	Major Combat Operations
MCOTEA	Marine Corps Operational Test and Evaluation Activity
MCSC	Marine Corps Systems Command
MDA	Milestone Decision Authority
MEF	Marine Expeditionary Force
MERS	Marine Expeditionary Rifle Squad
MIL-STD	Military Standard
MOA	Minute of Angle
MOPP	Mission-Oriented Protective Posture
MOS	Military Occupational Specialty
MOUT	Military Operations in Urban Terrain
MRBEFF	Mean Rounds Between Essential Function Failure
MRL	Manufacturing Readiness Levels
MROC	Marine Requirements Oversight Council
MTVR	Medium Tactical Vehicle Replacement
MWTC	Mountain Warfare Training Center
NATO	North Atlantic Treaty Organization
NBCCS	Nuclear, Biological, And Chemical Contamination
	Survivability
NDI	Non-Developmental Items
NET	New Equipment Training
NSS	National Security Systems
O&M	Operations and Maintenance
OEF	Operation Enduring Freedom
OIF	Operation Iraqi Freedom
OMFTS	Operational Maneuver from the Sea
POI	Program of Instruction
POR	Program of Record
PPQT	Pre-Production Qualification Testing
REPR	Rapid Engagement Precision Rifle
ROMO	Range of Military Operations
RPG	Rocket Propelled Grenade
SA	Supportability Analysis
SaaS	Soldier as a System
SASS	Semi-Automatic Sniper Rifle
SME	Subject Matter Expert
SOCOM	Special Operations Command
SOF	Special Operations Forces
SoS	System of Systems
SOTG	System of Systems Special Operations Training Group
SSDS	Scout Sniper Day Scope
SSMRNS	Scout Sniper Day Scope Scout Sniper Medium Range Night Sight
ONTIMU	Stout Shiper Medium Range Might Sight

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SSTR	Stability, Security, Transition, and Reconstruction Operations
STAMIS	Standard Army Management Information System
STANAG	Standardization Agreement
T/E	Table of Equipment
T/O	Table of Organization
TECOM	Training and Education Command
TOE	Table of Organization and Equipment
TRA	Technology Readiness Assessment
Tri-MEF	Tri-Marine Expeditionary Force
TSP	Training Support Package
ТТР	Tactics, Techniques, and Procedures
USMC	United States Marine Corps
UUNS	Universal Urgent Needs Statement
WRMR	War Reserve Materiel Requirement

# 1546 APPENDIX D - CAPABILITY DESCRIPTION TABLE

CONTRACTOR	Gap	Knowledge Empowered Networked	Deskieme with and when here in the first	Tier 1: A Tier 2 JCAs	Parameters	SUBURY NUM : X SU
1	Lack progressional formal and unit training for snipers and commanders	Knowledge Empowerd, Networked, Interoperable Expeditionary, Adaptable/Tatlorable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethal	Problems with graduating basically trained snipers, maturity, timing, school seats, plation size, deployment schedules; anipers are not being utilized correctly or to capacity; limited role in mission planning process; no formalized unit training		% Of fully trained Scout Snipers	85%
2	Lack ability to effectively engage targets beyond 800 yards with precision during daylight	intergrenble, Adaptable/Tailomble, Enduring/Persistent, Precise, Fast, Recilient, Agile, Lethal	M40 will not maintain precision or suitable lethality beyond 800 yards in daylight	Tier 1. Joint Land Operations, Joint Special Operations & Irregular Warfare, Tier 2. Provide and Employ Joint Fires, Control Temtory Populations & Resources, Direct Action, Counterterrorism, Counterinsurgency, Unconventional Warfare, Psychological Operations	% Of targets engaged beyond 800 yards with 1 MOA	90%
3	Insufficient lethality of a center of mass body shot from 7.82mm at threshold ranges (desert brown: 1500m)	Precise, Fast, Resilient, Agile, Lethal	Otten multiple shots are required to kill a target within M40 "effective" range (1000 yards), no or significantly requesed lethality at 1500 meters based on reduced ballistic energy upon impact at threshold range	Tier 1: Joint Land Operations. Joint Special Operations & Irregular Warfare, Tier 2: Provide and Employ Joint Fires. Control Temicory Populations & Resources, Direct Action, Counterformore, Counterformore, Unconventional Warfare, Paychological Operations	% Of targets neutralized within threshold ranges (desert brown 1500m)	90%
4	Scout Sniper platoon lacks established T/E.	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaputable Thiorable, Enduring/Persistent, Resilient, Agile, Lethal	Current Scout Sniper platons fall under H&S Company's T/E. As a result, Scout Snipera are often not allocated the appropriate oculoment. Scout Sniper platons require a separate T/E to ensure they are provided adequate equipment to include communications suites, night opics, thermal optics, GPS, semi-automatic rife, etc.	Tier 1: Joint Logistics, Joint Force Generation Tier 2: Aglie Sustainment, Joint Theater Logistics, Nan, Equip, Organize, Develop Skills	% Of Platoons with standardized set of equipment established in the Scout Sniper T/E	100%
5	Insufficient training for engagement of moving targets	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptable/Tailorable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethal	Limited facilities to support this training, limited time to use facilities, limited ammunition particular to an urban environment	Tier 1: Joint Land Operations, Joint Force Generation, Tier 2: Provide and Employ Joint Fires, Man, Equip. Organize, Develop Skills	% Of moving targets hit by Scout Snipers	90%
6	Lack ability to quickly and accurately calculate ballistics and largeling data	Knowledge Empowered, Networked, Interoperable, Adeptable/Tailorable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethal	Ballisic computers, chronographs, range finders, lack training with equipment, lack ability to capture weather data	Tier 1: Joint Land Operations, Joint Balllespace Awareness, Joint Force Generation, Tier 2: Observation & Collection, TECHINT, Geophysical, Human, Equip, Organize, Develop Skills	% Of ballistics and targeting data accurately calculated	95%
7	Insufficient ability to conduct counter sniper missions	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptable:Tailorable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethel	Shipers are not given formal instruction on this nor specialized gear, nor employed properly to conduct counter-sniper operations; rapidly improving technology to support this; cother nations (including threat nations) developing this capability	Tier 1: Joint Land Operations, Joint Special Operations & Imegular Warfare, Joint Protection, Joint Force Generation, Tier 2: Security (JSCO), Protecticn from Terrorist Threats (JP), Counterineurgency, Unconventional Warfare, Physical Security, Operations Security (JInO), Develop Skills	% Of Scout Snipers capable of conducting Counter Sniper Operations	90%
8	Insufficient training on gear currently being issued to operating forces in theater	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptable/Tailorable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethal	Currently new gear being fielded is not given to snipers to familiarize and train with before entering theater where it is first issued.		% Of Scout Snipers sufficiently trained on established T/E	100%
	Insufficient ability to move in urban environment without being detected	Knowledge Empowered, Networked, Interoparable, Expeditionary, Adaptable:Tailorable, Enduring/Persistent, Fast, Resilient, Agile, Lethal	PPE large weepons, local area training, and inability to ween local drass prevents snipers from blending into urban environment, limited cultural and linguistic training	Ter 1: Joint Special Operations & Irregular Warfare, Joint Stillespace Awareness, Joint Command & Control, Joint Force Generation Tier 2: Unconventional Warfare, Develop & Maintain Shared SA & Understanding, Operational Planning, Monitor Execution, Assess Effects and Adapt Operations, Develop Skills, Doctrine, Train, Exercise	Time in Mission before compromised position occurs	48 Hour
3	Lack in-depth cultural / foreign area training	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptable:Tailonable, Enduring/Persistent Precise, Resilient, Aglie	Time not allocated for training; hope to build better baseline level of training throughout USMC	Tier 1: Joint Stability Operations (SSTR), Joint Battlespace Awareness, Joint Shaping, Joint Force Generation, Tier 2: Building Military Partner Capability (JS), Building Military Partner Capacity (JS), HUMINT, Current Intelligence, Predictive Intelligence, Access/Share Info Aversary/Neurat/Noncombatants , Public Information (JPAO), Educate. Academic	% Of Scout Snipers trained on cultural/foreign areas prior to deployment	50%

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	11	Insufficient mobility, stealth, awareness, and endurance due to overall weight of combat load	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptablef Tarobie, Enduring/Persistent, Fast, Resilient, Agile,	Shipers are actively carrying over 140 lbs of gear into combat substantielly reducing endurance, mobility, stealth, and awareness	Tier 1: Joint Land Operations, Joint Force Generation Tier 2: Joint Deployment Rapid Distribution, Conduct Decisive Maneuver, Equip, Acquire, Integrate	% Reduction needed in overall combat load to increase mobility, stealth, awareness and endurance in Scout Sniper missions	50%
	12	Lack ability to rapidly engage multiple targets with precision	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptable/Tallorable, Enduring/Persistent, Precise, Fast, Agile, Lethal	Need for to engage multiple targets rapidly and with precision especially in urban area only being temporarily filled by MK 11	Tier 1: Joint Land Operations, Joint Force Generation Tier 2: Provide and Employ Joint Fires, Equip, Acquire, Integrate, Develop Skills, Train	% Of units with semi- automatic sniper suites issued in accordance with the established Scout Sniper T/E	100%
		Lack of proficiency to engage personnel targets from multiple shooting positions	Expeditionary, Adaptable/Tatorable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethal	Limited facilities to support this training. limited time to use facilities, limited ammunition	Tier 1: Joint Force Generation Tier 2: Develop Skills, Train, Exercise, Mission Rehearsal Exercise	% Of Scout Snipers trained to engage personnel targets from multiple shooting positions	100%
	13	Inability to engage materiel targets with precision	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptable/Tailorable, Enduring/Persistent, Precise, Resilient, Agile, Lethal	SASR vill not hold 1 MOA	Tier 1: Joint Land Operations, Joint Force Generation, Tier 2: Provide and Employ Joint Fires, Equip, Acquire, Integrate	Range of shot from .50 cal that maintains 1 MOA	1000 meters
	15	Lack of proficiency in operating required communications equipment	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptablef Tarorable, Enduring/Persistent, Precise, Fast, Resilient, Agile	School house POI lecks sufficient training time to become proficient, no standardized unit training; don't have enough equipment	Tier 1: Joint Land Operations, Joint Battlespace Awareness, Joint Force Generation Tier 2: Observation & Collection (JBA), Develop & Maintain Shared SA & Understanding, Equip, Develop Skills, Train	% Of Scout Snipers trained to advanced competency in operating required communications equipment	100%
	16	Lack of proficiency in following proper reporting procedures	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptableffantorable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethal	Time is not dedicated; recon (esp. urban) reporting is not trained cutside of urban R&S course	Tier 1: Joint Force Generation Tier 2: Develop Skills, Educate, Train, Individual, Collective, Staff, Exercise	% Of Scout Snipers trained to advanced competency in following proper reporting procedures	100%
	17	Insufficient coordination between sniper units and higher and adjacent commands	Knowledge Empowered, Networked, Interoperable, Expeditionary, AdaptableTainable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethal	Require better coordination and sharing of information between supported unit and snipes; cross-boundary and unit coordination is lacking; major deficient when trying to communicate with units such as SOF operating with different communications assets	Tier 1: Joint Net-Centric Operations, Joint Battlespace Awareness, Joint Command & Control Tier 2: Information Transport, Network Management, Develop & Maintain Shared SA & Understanding, Synchronize Execution Across All Domains	% Of Scout Sniper units capable of communicating directly or indirectly with units operating in the same area of operations	100%
	18	Degraded ability to conduct observation	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptable/Tailorable, Enduring/Persistent, Precise, Resilient, Agile, Lethal	Only trained and tested on observation at basic sniper course although critical as fundamental skill	Tier 1: Joint Force Generation Tier 2: Develop Skills, Train, Exercise, Mission Rehearsal Exercise	% Of Time Enemy, Friendly Forces, or Targets are Proactively Detected	75%
	19	Insufficient ability to patrol under low light cross country	Interoperable, Expeditionary, Adaptable/Tailorable, Enduring/Persistent, Fast, Agile	Limited on dark nights or areas with little to no ambient light; no depth perception	Tier 1: Joint Land Operations, Joint Force Generation Tier 2: Conduct Operational Movement & Maneuver, Equip, Acquire, Integrate	% Of Scout Snipers able to patrol under low light cross country	70%
1549	20	Limited ability to defeat hardened or fortified positions with precision fire	Interoperable, Expeditionary, Adaptable/Tailorable, Precise, Lethal	.50 cal has very limited effect on hardened or fortified positions: likely solution not a rifle	Tier 1: Joint Land Operations, Joint Force Generation Tier 2: Provide and Employ Joint Fires, Equip, Acquire, Integrate	% Of targets neutralized within threshold ranges	85%
1019	21	Inability to terminally control close air support	irnor/redge Empowered, Networked, Interoperable, Expeditionary, AdquableTalorable, Precise, Fasl, Resilient, Agile, Lethal	Cited as necessary to conduct mission although capability will have to be built	Tier 1: Joint Land Operations, Joint Air Operations, Joint Battlespace Awareness, Johnt Force Generation Tier 2: Provide and Employ Joint Fires, Tractical Air Support, Close Air Support, Access/Share Blue Force SA, Develop Skills, Train	% Of Scout Snipers trained to an advanced competency in controlling Type III CAS	50%
1550	22	Lack of proficiency in calling for fire (fire support coordination, urban call for fire, calling and adjusting fire)	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptable <sup>11</sup> altorable, Precise, Fast, Resilient, Agile, Lethal	Given basic instruction at school house, but lack resources and priority to conduct live fire fraining incre advanced training is totally dependent upon unit	Tier 1: Joint Land Operations, Joint Maritime/Litoral Operations, Joint Battispace Awareness, Joint Command & Control, Joint Force Generation Tier 2: Provide and Employ Joint Fires, Maritime/Litoral Fires, Tacical Air Support (JAO), Access/Share Blue Force SA. Synchronize Execution Across Ail Domains, Develop Skills, Train, Mission Rehearcal Exercise	% Of Scout Snipers trained to an advanced competency in calling for fire (fire support coordination, urban call for fire, calling and adjusting for fire).	50%

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SUBJECT TO PROTECTIVE ORDER - KINZER V. REMINGTON

**BARBER - RE 0010031** 

	Lack career progression and relention track	Knoviedge Empovered, Nelworked, Interoperable Expeditionary, Adagtable/Tailorable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethal	Problems retaining well trained snipers, senior NCO's lost to line companies as 0369's; no MOS career track; leaves no experience in platoon	Ter 1. Joini Command & Conicol, Joini Force Management. Joint Force Generation Tifer 2: Establishi/Adapt Command Structures and Enable both Global and Regional Collaboration, Organize Staff to align with mission, Planning, Future Capability Identification. Man, Recruit, Doctrine	% of 0369's that have held 0317 MOS prior to leading a Scout Sniper platoon	100%
24	Lack gear and equipment for calling and adjusting fires	Knowledge Empowered, Networked, Interoperable: Expeditionary Adaptable/Tailorable, Precise, Fast, Resilient, Agile, Lethal	T/E does not support specialized gear for forward observation such as GPS	Tier 1: Joint Force Generation Tier 2: Equip, Acquire, Integrate	% Of units that have the established equipment from the Scout Sniper T/E to call and adjust fires	100%
25	Lack doctrine for sniper support of raids	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptable-Taiorable, Enduring/Persistent, Precise, Resilient, Agile	MEU's have raid SOP, but no doctrine / SOP to support use of snipers while in support of standard battalion	Tier 1: Joint Land Operations, Joint Battlespace Awareness, Joint Force Generation Tier 2: Observation & Collection (JBA), Equip, Acquire, Integrate, Doctrine	% Of Scout Sniper platoons that have received training in support of raids/over watch	100%
26	Insufficient training for controlling direct fires	Knowledge Empowered, Networked, Interoperable, Expeditionary, AdaptableTalorable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethal	ADDRAC and other fire commands are not trained	Tier 1: Joint Land Operations, Joint Battlespace Awareness, Joint Force Generation Tier 2: Observation & Collection (JBA), Equip, Acquire, Integrate, Doctrine, Training	% Of Scout Snipers trained in controlling direct fires	50%
27	Lack functional PPE (including helmet)	Knowledge Empowered, Networked, Interoperable, Expeditionary, Adaptable Taronable, Enduring/Persistent, Precise, Fast, Resilient, Agile, Lethal		Tier 1: Joint Command & Control, Joint Force Generation Tier 2: Operational Planning, Develop/Analyze/Select COA's, Doctrine, Educate, Train, Mission Rehearsal Exercise	% Of Scout Snipers that have modular PPE equipment tailored to the established Scout Sniper T/E	100%
	Current T/O does not support identified scout sniper tasks	Adaptable/Tailorable, Precise, Lethal	Current units are deploying and operating with approximately 30 personnel in various size teams pending situation	Tier 1: Joint Force Generation Tier 2: Equip, Acquire, Integrate	% Of units operating with correct T/O for Scout Sniper operations	100%

1551

