

Precision Sniper Rifle (PSR)

This questionnaire is listed in order of importance. Please focus on the top four categories which are Precision, Reliability, Sound/Flash Suppression, and Physical Dimensions. Any other information that your firm can supply is greatly appreciated but not required. Please use attachments/insert pages to elaborate as appropriate.

Precision: Key Performance Parameter (KPP)

- 1) Do you believe that ammunition and weapons can be built to provide a repeatable 1 MOA Extreme Vertical Spread ten round group at 1500 meters? If not, what is a more realistic precision requirement?
- 2) What is the weapon's precision stated in Extreme Spread and Mean Radius using a 10 round group when firing 500 yards/meters, 1000 yards/meters, 1500 yards/meters with and without suppressor ?
- 3) What instrumentation does your organization use to record the precision data?
- 4) Where does your organization obtain their precision and precision data? (Please provide the name of the range, altitude, and time of year for conducting the testing)
- 5) Is your organization able to supply acoustic targeting data from 1000 yards/meters to 1500 yards/meters?
- 6) What is your organization's definition of "Barrel Life"
- 7) What is your expectation, in rounds fired from your weapon's barrel, before seeing degradation in precision, using your definition of barrel life.
- 8) What type of ammunition will your organization use to meet the performance required?

Reliability:

- 1) What is the weapon's expected reliability performance for a 2500 round firing schedule stated in Mean Round Between Failure (MRBF)?
- 2) Does the suppressor affect reliability?
- 3) What firing cycle/cleaning schedule was employed to derive reliability data?
- 4) What repair parts were required to complete the 2500-round schedule?

5) What is the stated service life of the weapon and suppressor?

Sound/Flash Suppressor and Muzzle Break:

- 1) Does the weapon system incorporate or facilitate use of a suppressor that will significantly reduce sound and flash?
- 2) What is the reduction in sound and flash in decibels and lumens when comparing your suppressed to your unsuppressed models?
- 3) Does attachment of the suppressor shift point of impact?
 - a) If so, how much, at what range in MOA?
 - b) Is shift repeatable?

Physical Dimensions: KPP

(***The term "dimensions" applies to the length, height and width in inches.)

- 1) What are the dimensions of your firm's rifle without attachments?
- 2) Can the rifle be reduced in length? If so, to what length?
- 3) What are the dimensions of the rifle with suppressor/and or muzzle device (if applicable) attached?
- 4) What are the dimensions and weight of the suppressor and muzzle break (if applicable)?
- 5) What is the weight (in pounds) of the rifle itself w/empty magazine?

Safety / Action:

- 1) Does the weapon incorporate a manual safety device which locks/blocks the firing pin?
- 2) Does the weapon incorporate a passive safety device blocks/locks the firing pin / striker from contacting / initiating the cartridge primer until the operator pulls the trigger?

Magazines: KPP

- 1) Does the weapon system include a magazine with a capacity of at least 5 rounds?

- 2) Are higher capacity magazines available? If so, what is their capacity?
- 3) How far below the magazine well do these magazines extend?

General Questions:

- 1) Can you meet a 45 day initial product sample/proposal delivery of three weapons and 2000 rounds of ammunition? If not, please provide proposed delivery in days.
- 2) What would be your organizations projected delivery time frame for an additional 9 guns and 9000 rounds of ammunition?
- 3) What is your standard monthly delivery rate for this product?
- 4) What is your maximum monthly delivery rate for this product?
- 5) How many weapons systems would you require to produce in a production setting?
- 6) To date how many precision weapons that your organization intends to submit for testing, have been produced?
- 7) Provide a breakout of in-house activities as compared to that of subcontractors
- 8) Is the weapon system used by any foreign militaries? If so, which foreign militaries have adopted it; how long has it been in service; and how many units have been sold to the military?
- 9) Does the weapon have parts compatibility / commonality with existing US weapons?
- 10) Can you provide copies of commercial or military test data?
- 11) Can you provide copies of acceptance procedures and accept / reject rates for the production weapon?
- 12) Do you offer a standard commercial warranty on your product? If so, what are the terms and conditions?
- 13) What are major risk factors that you feel affect cost, schedule, and performance with the draft PSR specification as currently written?
- 14) What changes would you recommend to the specification itself for a more favorable effect on cost, schedule and performance?

- 15) Can you provide versions of your weapon in alternative military calibers, such as 7.62mm NATO and .300 Winchester Magnum? Can this be done thru a modular barrel concept?
- 16) Do you fabricate your own daylight optics for your rifle, or do you use a subcontractor?
- 17) Please provide additional relevant comments on any aspects of this program.