

ESCAMBIA COUNTY FLORIDA
REQUEST FOR INFORMATION

Sheriff Range Rehabilitation Target System
Solicitation Identification Number PD 17-18.076

Information Requests Will Be Received Until:
2:00 p.m. CDT, July 19, 2018

Office of Purchasing, Room 11.101
213 Palafox Place, Pensacola, FL 32502
Matt Langley Bell III Building
Post Office Box 1591
Pensacola, FL 32597-1591

Board of County Commissioners

Douglas Underhill, Chairman
Jeff Bergosh, Vice Chairman
Steven Barry
Lumon J. May
Grover Robinson IV

From:
Paul R. Nobles
Purchasing Manager

All requests for assistance should be made in writing when possible. Responses will be provided to all known submitters in writing. No verbal responses will be provided.

Assistance:

Paul R. Nobles
Purchasing Manager
Office of Purchasing
Matt Langley Bell III Building
213 Palafox Place
2nd Floor, Room 11.101
Pensacola, FL 32502
T: 850.595.4918
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NOTICE

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| <p>It is the specific legislative intent of the Board of County Commissioners that NO CONTRACT under this solicitation shall be formed between Escambia County and the awardee vendor until such time as the contract is executed by the last party to the transaction.</p> |
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SPECIAL ACCOMMODATIONS:

Any person requiring special accommodations to attend or participate, pursuant to the Americans with Disabilities Act, should call the Office of Purchasing, (850) 595-4980 at least five (5) working days prior to the solicitation opening. If you are hearing or speech impaired, please contact the Office of Purchasing at (850) 595-4684 (TTY).

Escambia County Florida
REQUEST FOR INFORMATION
Responders Checklist
SHERIFF RANGE REHABILITATION TARGET SYSTEM
Solicitation Identification Number PD 17-18.002

How to Submit Your Response

- Please review this document carefully. Offers that are accepted by the county are binding contracts. Incomplete responses are not acceptable. All documents and submittals must be received by the office of purchasing on or before date and hour specified for receipt. Late responses will be returned unopened.

The Following Documents Shall Be Returned With Response:

- Information Response

How to Submit a No Response

- If you do not wish to respond at this time, please respond to the Office of Purchasing providing your firm's name, address, a signature, and a reason for not responding in a sealed envelope. This will ensure your company's active status in our vendor's list.

This form is only for your convenience to assist in filling out your response. Do not return with your response.

I. INTRODUCTION

A. Purpose

The County has identified a target system to be used a part of the Sheriff's Range Rehabilitation. The County is seeking additional products that can meet the specifications included herein.

OUTDOOR TOTAL CONTAINMENT TRAP (TCT) - (HEAVY DUTY MODULAR BULLET TRAP AND CONTAINMENT SYSTEM

A. Basis of Design

Acceptable product shall be a Total Containment Trap (TCT) by Action Target or equivalent.

B. Construction:

1. The bullet trap and containment system shall be a self-supporting, self-contained bullet backstop and containment unit of steel plate construction for heavy use on both indoor and outdoor high-volume ranges.
2. The trap plate layout shall employ a sloping funnel design with 3 top and 5 bottom impact plates (preferred) or 4 top and 4 bottom impact plates constructed of $\frac{3}{8}$ " thick steel with a mill certification of AR500.
3. The bullet trap and containment system shall be fully modular such that it may be assembled on-site or disassembled and moved.
 - a. Assembly shall not require "permanent" connection means such as welding, riveting, etc.
 - b. All modular components shall be completely prefabricated for simple assembly on site and shall not require cutting of materials or other sizing operations.
 - c. All modular components shall be small enough to be carried through a standard 36"-wide doorway.
4. Trap plates shall be blasted and prepared to be in compliance with painting specification SP 6.
5. No trap plates shall be subjected to flame cutting (oxygen fuel cutting, such as acetylene, propane or MAPP gas, etc.). All ballistic plate cutting must be done on computer-controlled plasma equipment.
6. No welding shall be permitted on impact plates.
7. No impact plate may be constructed of permeable or flammable materials such as rubber, wood, plastics, etc.
8. All primary impact plates shall be arranged such that a bullet fired straight into the trap shall impact the plate at an angle of no greater than 16 degrees.
9. Vertical joints that connect modular components shall not be located at or near the front edge of the trap and shall occupy no more than 6% of the total aperture height of the trap.
10. All surfaces facing shooters shall be constructed of steel with a mill certification of AR500.
11. Joints shall have no exposed bolt heads.

12. Trap shall require no prior construction or site preparation other than a flat concrete pad with a prepared trench.
13. The trap shall be fully self-supported with an appropriate concrete pad (concrete pad by others).
14. Deflectors shall be installed on all blunt or joined surfaces and facing the firing line in order to deflect the bullet into the trap and reduce the possibility of ricochet.
15. The trap shall include a rib crimp style steel roof situated no more than 4" above the trap support structure and covering the entire area occupied by the trap with at least 1 ft. on each side of the trap and 3 ft. on the rear of the trap.
 - a. The roof shall be watertight, protecting the trap and service area from precipitation.

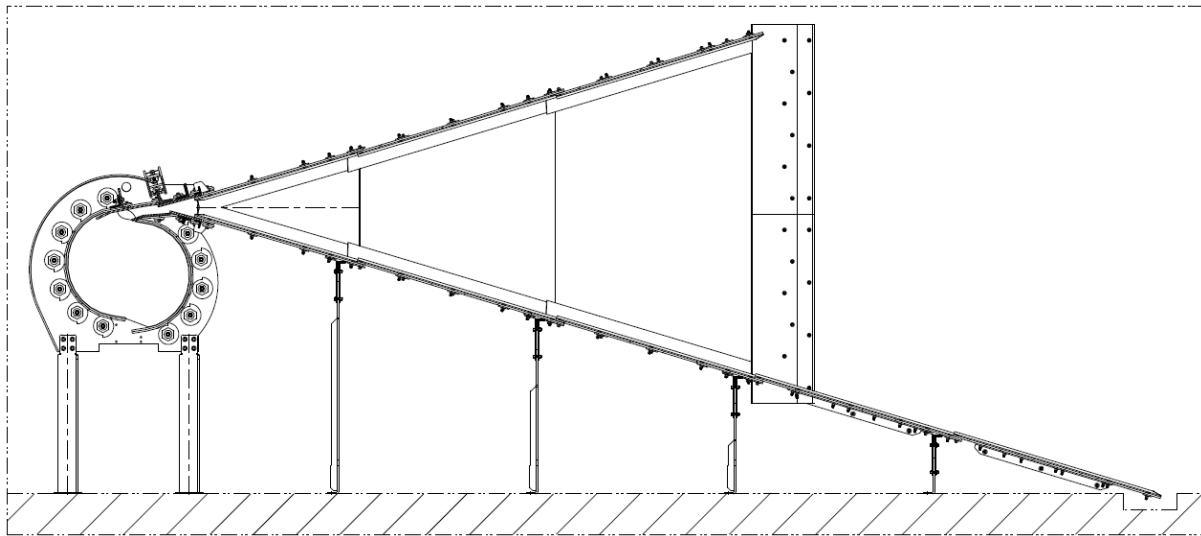


FIGURE 1: 3X5 TRAP PLATE LAYOUT

16. The material of the chamber impact plates shall be mill certified AR500 steel with a thickness of $\frac{3}{8}$ ".
17. Containment chamber is of single-piece construction that is fully welded and airtight.
18. Deceleration chamber shall consist of multiple bent or multiple individual surfaces at angles that decelerate and break down the bullet.

C. Performance Requirements:

1. Trap shall utilize steel impact plates to direct the bullet into an enclosed, sealed, and fully shielded chamber that safely captures the bullet and removes its velocity.
2. Deceleration shall occur in free air and not in any other medium such as rubber, water, etc. Trap shall not require the use of or introduce any chemical media such as oils, anti-freezes, chlorine, etc.
 - a. Trap shall not introduce any substance that is EPA regulated, e.g. ethylene glycol and antifreeze.

- b. Trap shall not introduce any substance that might act as a solvent for spent bullets or their by-products, e.g. water, which can be a solvent for some frangible materials.
3. The inside of the chamber shall be readily accessible for inspection without requiring removal of any kind of internal deceleration medium such as rubber, sand, or water, etc.
4. Bullet components that have lost their momentum shall be directed into a series of D.O.T. approved canisters.
 - a. Removal of contained lead shall not require any process such as scooping, pouring, shoveling, sifting, etc. that would disturb the settled state of the lead and lead particulates.
5. Trap impact surfaces shall be UL 752 compliant and carry an ATI Class 2 rating (rifle rated).
 - a. Trap impact surfaces shall carry an ATI Class 2 rating when fired into at a point blank range from the front aperture. See Tables 1 and 2 below for included calibers in this rating*.
6. Trap shall be able to capture a .50 BMG round when shot from 25 yards or farther from the mouth**.

TABLE 1: ATI CLASS 1 AND 2 BALLISTIC RATING PARAMETERS

| Rating | Ammunition | Max | Max | Compliance |
|-------------|------------|-----------|--------------|--|
| ATI Class 1 | Pistol | 1,485 fps | 1,175 ft/lbs | Meets or exceeds UL 752 Level 3 standards |
| ATI Class 2 | Rifle | 3,388 fps | 3,600 ft/lbs | Meets or exceeds UL 752 Level 5,7,8,9 & 10 standards |

TABLE 2: TYPICAL PISTOL AND RIFLE AMMUNITION

| Typical Pistol Ammunition* | | | |
|----------------------------|----------------|--------------|--------------|
| Caliber | Cartridge Type | Max Velocity | Max energy |
| 9mm | 124gr FMJ | 1,293 fps | 460 ft/lbs |
| .357 | 158gr JSP | 1,375 fps | 663 ft/lbs |
| .40 | 180gr TMJ | 1,000 fps | 400 ft/lbs |
| .45 | 230gr TMJ | 845 fps | 365 ft/lbs |
| .44 mag | 240gr SWC | 1,485 fps | 1,175 ft/lbs |
| Typical Rifle Ammunition* | | | |
| .22LR | 40gr HP | 1,260 fps | 141 ft/lbs |
| 5.56 | 55gr FMJ | 3,388 fps | 1,402ft/lbs |
| 7.62 | 150gr FMJ | 3,025 fps | 3,048 ft/lbs |
| .308 | 150gr SPTZ | 2,900 fps | 2,800 ft/lbs |
| 30:06 | 180gr SPTZ | 2,900 fps | 3,360 ft/lbs |
| 300 Win. | 190gr BTHP | 2,900 fps | 3,548 ft/lbs |

* The above listed ammunitions are for demonstration purposes only. Certain ammunitions may fall outside stated safety ratings and should be used at user's risk.

** .50 BMG must be fired from at least 25 yards from the trap mouth. .50 BMG must not be fired from a fixed position. .50 BMG use will significantly decrease wear life of the trap. Damage due to .50 BMG use will not be covered under warranty.

Power-90 Turning Targets

A. Basis of Design:

Acceptable product shall be "Power-90" by Action Target.

B. Performance Requirements:

1. The actuator shall hold a cardboard type target which has two positions, frontface and edge, and shall be capable of turning quickly from any one position to any other position.
2. The actuator must be rated for severe weather conditions. It must be able to withstand submersion in water and operate in submerged conditions.
3. Turning times may be easily adjusted, using a screwdriver, without opening the unit.
4. Actuator shall contain the means to fully control turning time from edge to face. The range of control shall be from less than 0.5 seconds and up.
5. Actuators shall not require the use of tools to make air connections. Rather, all air connections shall be quick-connect, push-in air fittings for use with flexible air tubing. No rigid internal air carriers may be used.
6. Actuators shall be capable of independent or tandem operation.
7. Actuator shall have the ability to develop at least 31.0 ft-lbf of torque.
8. Actuator shall consume no more than 5.5 cubic inches of air per actuation. Total compressor power required for typical range installation not exceed 2 Hp.
9. Actuator shall be totally field repairable such that a complete field rebuild operation may be accomplished quickly by standard range personnel (without any special skills) using standard hand tools, such as a socket wrench, screw gun and screwdriver, and not require the use of power tools, such as impact wrenches, (both air and electric) and electric drills.
10. The actuator shall connect to a computer to allow multiple units to operate in a pre-programmed scenario or as an option, a push-button controlled wireless interface with the ability to run pre-programmed scenarios wirelessly.
11. The mechanism shall be protected from splatter at all angles and shall inherently protect tubing and control wires running inside. Actuator shall provide standard 1/2" conduit interface from the bottom or rear of unit.

C. Construction

1. All inner parts (hoses, piston, and access ports) shall be covered by a hot-dipped, galvanized, removable housing to protect all components.
2. All impact surfaces shall be separate from the actuator and shall be replaceable.
3. Actuator shall contain no electronic components (semi-conductors) whatsoever and shall not require electrical power to operate.
4. Option: target system must be capable of using an electrical signal for electric triggering and pneumatic operation.
5. All steel surfaces must be sandblasted and be in compliance with painting specification SP-6.

Options

- A. Actuator may be attached to a flat concrete surface such that no special forming or berming is required for its installation.
- B. Actuator may be completely self-standing.
- C. In addition to the standard concrete mounting interface, there shall be available a portable interface allowing the unit to operate on asphalt, gravel or unimproved surfaces.
- D. Actuator must have the capability of being mounted and operating inverted without changes being made to the actuator or the mounting brackets.

II. INSTRUCTIONS TO SUBMITTERS

Firms desiring to submit product designs to be considered shall submit one (1) hard copy and one (1) electronic copy of your firms Response that details the entity's interest. It is not necessary for the entity to submit a detailed proposal; however, the letter should be specific enough to include but not be limited to:

1. Manufacturer and availability of the product
2. Product literature, outlining the operation of the system
3. Contact information:
 - i. Name
 - ii. Address
 - iii. Phone Number
 - iv. Email Address

All terms and conditions below are a part of this request, and no offer will be accepted unless all these conditions have been complied with. The County reserves the right to waive informalities in any offer; to reject any or all offers, in whole or in part, and/or to accept the offer(s) that in its judgment is from the lowest and most responsible and responsive offeror(s).

1. **General Information**

All offers to be considered shall be in the possession of the Office of Purchasing prior to the time of the solicitation closing. Offers may be mailed to 213 Palafox Place, Room 11.101, Pensacola, Florida 32502 or delivered to the Office of Purchasing, 2nd floor, Room 11.101, Matt Langley Bell, III Bldg., 213 Palafox Place, Pensacola, Florida 32502, in a sealed envelope clearly marked:

**Specification Number PD 17-18.076, "Sheriff Range Rehabilitation Target System", Name of Submitting Firm, Time and Date due.
Note: If you are using a courier service; Federal Express, Airborne, UPS, etc., you must mark airbill and envelope or box with Specification Number and Project Name.**

Regardless of the method of delivery, each offeror shall be responsible for his offer(s) being delivered on time as the County assumes no responsibility for same. Offers offered or received after the time set for solicitation closing will be rejected and returned unopened to the offeror(s).

The following policy will apply to all methods of source selection:

Conduct of Participants

After the issuance of any solicitation, all bidders/responders/protestors or individuals acting on their behalf are hereby prohibited from **lobbying** as defined herein or otherwise attempting to persuade or influence any elected County officials, their agents or employees or any member of the relevant selection committee at any time during the **blackout period** as defined herein; provided, however, nothing herein shall prohibit bidders/responders/protestors or individuals acting on their behalf from communicating with the purchasing staff concerning a pending solicitation unless otherwise provided for in the solicitation or unless otherwise directed by the purchasing manager.

Definitions

Blackout period means the period between the time the bids/proposals for invitations for bid or the request for proposal, or qualifications, or information, or requests for letters of interest, or the invitation to negotiate, as applicable, are received at the Escambia County Office of Purchasing and the time the Board awards the contract and any resulting bid protest is resolved or the solicitation is otherwise canceled.

Lobbying means the attempt to influence the thinking of elected County officials, their agents or employees or any member of the relevant Selection Committee for or against a specific cause related to a pending solicitation for goods or services, in person, by mail, by facsimile, by telephone, by electronic mail, or by any other means of communication.

Sanctions

The Board may impose any one or more of the following sanctions on a nonemployee for violations of the policy set forth herein:

- (a) Rejection/disqualification of submittal
- (b) Termination of contracts; or
- (c) Suspension or debarment as provided in Sec. 46-102 of the Escambia County Code of Ordinances.

This policy is not intended to alter the procedure for Protested Solicitations and Awards as set forth in the Sec. 46-101 of the Escambia County Code of Ordinances.

2. **Procurement Questions**

Procurement questions may be directed to Paul R. Nobles, CPPO, CPPB, FCCM, FCN, Purchasing Manager, Telephone#: (850) 595-4918, Fax#: (850) 595-4806, email: prnobles@myescambia.com.