Agency: Commerce, Community and Economic Development

Grants to Municipalities (AS 37.05.315)

Grant Recipient: Anchorage **Federal Tax ID:** 920059987

Project Title: **Project Type:** Equipment and Materials

Anchorage - Police Department Indoor Range Targeting System Upgrades

State Funding Requested: $500,000 **House District:** Anchorage Areawide (16-32)
One-Time Need

Brief Project Description:

Installation of a programmable target system on the indoor firing range.

Funding Plan:

Total Project Cost:	$500,000
Funding Already Secured:	($0)
FY2013 State Funding Request:	($500,000)
Project Deficit:	$0

Funding Details:

None

Detailed Project Description and Justification:

The current manual trageting system requires an instructor to manipulate individual target lanes to various yardage points in the single lane. Targets are locked in shooter facing position an cannot be turned. The proposed system would allow for computer programmable target scenarios including turning targets, shoot-no-shoot decisions, multiple targets in a single lane and other scenarios designed to provide more realistictraining in a safe and stable environment. One range officer could control this system from the firing line through a handheld device for course alterations to eliminate the probablility of memory response to a given training scenario.

Project Timeline:

An Invitation To Bid (ITB) will be released for the competitive procurement of this system with delivery and installation anticipated within 6-8 months of funding award.

Entity Responsible for the Ongoing Operation and Maintenance of this Project:

Anchorage Police Department

Contact Name: Patty Krueger
Contact Number: 907 465-4931

For use by Co-chair Staff Only:

$500,000 Approved

3:15 PM 5/2/2012

Grant Recipient Contact Information:

Name:	Steve Miko
Title:	Resource Manager
Address:	4501 Elmore Road
	Anchorage, Alaska 99507
Phone Number:	(907)786-8540
Email:	smiko@muni.org

Has this project been through a public review process at the local level and is it a community priority? [X] Yes [ ] No

For use by Co-chair Staff Only:

3:15 PM 5/2/2012

Contact Name: Patty Krueger
Contact Number: 907 465-4931

I have attached some documentation from the factory on the systems that they employ. Meggitt is the manufacturer that installed our current indoor range system and is currently involved in a large scale rehabilitation of the deflecting baffles on the range ceiling. This project, if approved will fit in perfectly within the existing project time frame as the two projects can be implemented simultaneously. Meggitt designs the automated targeting systems as per the customers training scenario and within the physical limitations of the range space. With independent design based on each range project, they are able to maximize the potential training possibilities for each customer. Our Indoor Range Complex is located at the APD Training Facility and consists of two side by side ranges containing seven (7) firing lines each. These ranges are made available to all law enforcement agencies in the SOA and other federal entities that require handgun weapons training.

Please feel free to contact me at your earliest convenience should you require any additional information.

Respectfully,

Stephen W. Miko

Stephen W. Miko
Resource Manager
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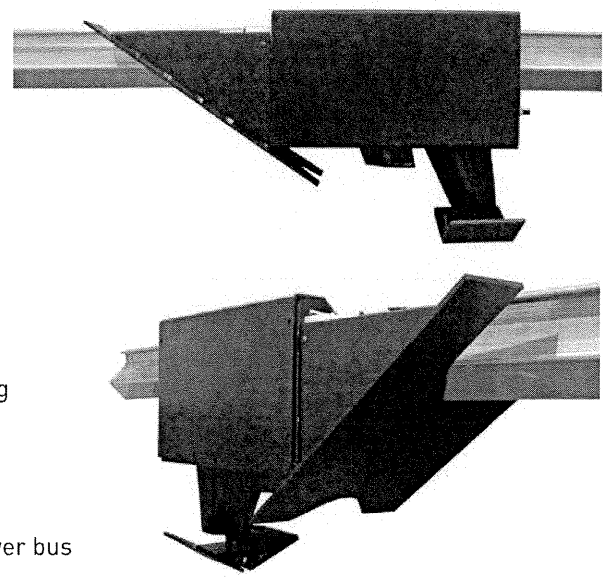
Meggitt Training Systems

Next Generation Wireless Target (XWT)

Target retrieval systems are a standard feature in indoor ranges, however, there is no reason to settle for standard training. Meggitt Training Systems delivers the industry's first wireless, 360° turning target retrieval system. The XWT moves along the rail via an internal, variable speed, DC motor drive system eliminating the need to replace frayed cables and to continually adjust tension of cables and pulleys found on traditional target retrievers. This unique design also eliminates stray lead fragments and casings from damaging the power source. The XWT is operated via wireless communication through a user-friendly, touch-screen controller.



Meggitt Training Systems has also improved the rail system, utilizing one-piece construction cold roll-formed steel track for increased durability, reduced maintenance and smoother operation.

XWT carrier

- Onboard power system and internal drive system eliminates power bus bars, cables and pulleys.
- An onboard, rechargeable, long-life lithium battery powers the carrier and automatically returns home if power is low. Each time the target carrier reaches the "home" position, the counter is reset and zeroed as well as docking the carrier for charging.
- The carrier prow is made of AR500 steel and protects the rotating shaft of the target carrier system. The rail front exposed surface of the carrier and rail hangers are able to withstand occasional direct impact from most handgun ammunition.
- The XWT target carrier moves at approximately 8 feet per second and stops within a tolerance of +/- .75" Soft start/stop eliminates component shock and fatigue.
- Self-calibrating target head provides precise, sharp turning action.
- The target can rotate 360° and expose either right or left face in less than ½ of a second in either direction.
- The target carrier houses a protected target illumination light fixture providing 100 lumens (max.) of adjustable with the ability to simulate muzzle flash.

XWT rail system

- Track is one-piece construction, cold roll-formed steel for added durability, smooth operation and reduced maintenance.
- Rail section and hangers are assembled by bolted construction thus providing suspension hangers and anti-sway restraints to minimize longitudinal and lateral movement of the rail.
- Design eliminates obstructions such as light motors, drive belts, control boxes, etc. at the firing line thus allowing for enhanced airflow circulation.
- No crossmember bar required; system can be installed without the support of shooting stalls.

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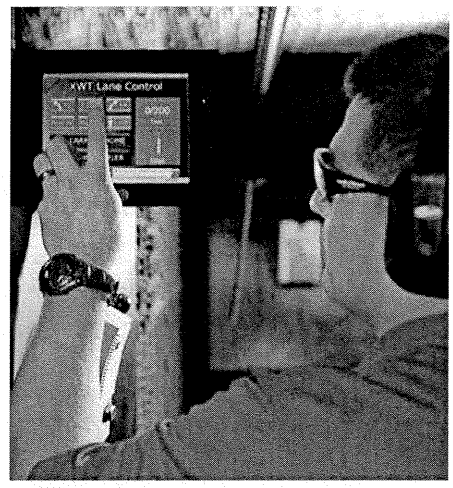
smart engineering for
extreme environments

Touch screen controller

- Wirelessly controls carrier's operations via 802.15.4 communication protocol.
- Places the target down range at any distance in feet, yards or meters giving shooters the ability to move targets in any position on the track between the firing line and the last target line without the use of signaling devices.
- Control commands such as face, edge, left and right turning with one-touch operation. Shooters can also program static or looping courses of fire.

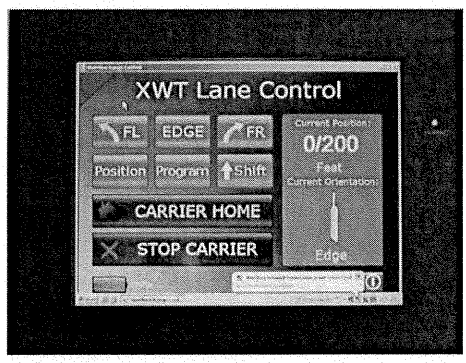


An intuitive touch screen controller gives shooters complete control over operation of the target carrier, including programming custom courses of fire.

Specifications

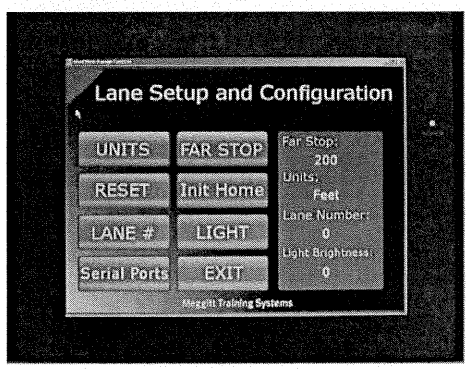
XWT Rail System

- 12 gauge, cold roll-formed, zinc plated steel track sections
- Length: 8' maximum per section; 4.4" H x 3.4" W
- Weight: 37 lbs. per 8' section
- Installation: Secured to the downrange crossmembers by steel rail hangers



XWT Target Carrier

- 30" L x 16.7" H x 10" W
- Weight: 70 lbs.
- Target Rotation Angle: 360° in 90° increments
- Target Rotation Motor: 30 RPM (min)
- Target Carrier Backer/Paper Target: 35" x 45" (max)
- Target Carrier Target Weight: 2 lbs. (.91 kg) (max)
- Target Carrier Range Positional Accuracy: .75"
- Target Carrier Variable Speed Movement: 8 ft/s (max)
- Installation: Supported on the track by eight wheels. Four lower wheels are spring loaded against the track.
- Operating temp.: +/- 40° C. Not designed for non-condensing humidity in indoor applications. For indoor range use only.



XWT Electrical Assembly

- Input Power: 30 VDC
- Power Consumption: 48W
- Operating Temperature: 0 - 104° F (0 - 40° C)
- Non-operating (Storage) Temperature: -40 - 158° F (-40 - 70° C)
- Humidity: < 80% @ 30° C (86° F), non-condensing

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www.meggitttrainingsystems.com

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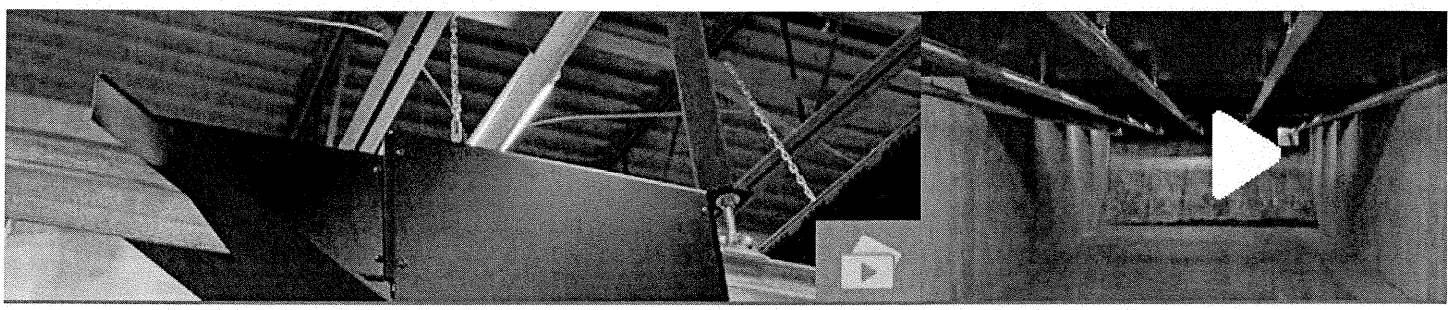
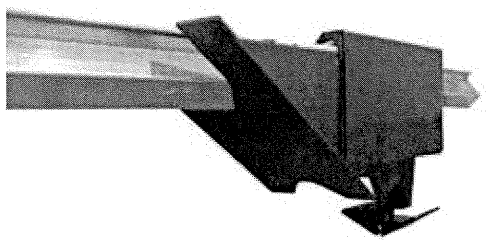


Target retrieval systems

Indoor range training equipment for real-world survivability

Building on Caswell's 80+ years of shooting range equipment expertise, Meggitt Training Systems delivers the most innovative and reliable range solutions. Law enforcement firearms training is about more than sending rounds down range. It's about perceiving realistic threats such as moving targets, friend/foe discrimination and decision making skills, cover and concealment and low-light situations. These types of tactical training engagements are critical to survivability in the field. We believe in providing indoor range target carriers that meet these needs while allowing you to train at any time under any condition.



XWT – next generation target carriers for indoor and outdoor training

Meggitt Training Systems brought the first wireless target carrier to the indoor range, and now we are expanding your training value b bringing it to the outdoor range as well. Both the indoor and outdoor XWT configurations feature an internal DC motor drive system eliminating the need to replace frayed cables and to continually adjust tension of cables and pulleys found on traditional target retrievers. The XWT is operated via wireless communication through a user-friendly, touch-screen controller. The rail system utilizes one-piece construction cold roll-formed steel track for increased durability, reduced maintenance and smoother operation.

360° target head rotation exposes right or left face in less than ½ of a second

Protected light fixture provides 100 lumens (max.) of adjustable light with the ability to simulate muzzle flash for low-light training

The XWT target carrier moves at approximately 8 feet per second and stops within a tolerance of +/- .75"

Additional configurations available such as variable speed operation and extended arm

Outdoor XWT is suitable in environments where extreme weather conditions are present (i.e. humidity, sand/dust, salt fog, etc.)

Classic target retrieval systems

Our Models CEE and CEB target carriers offer the stability of a track system and the simplicity of a non-turning target carrier in an economical design. These fixed speed, electrically powered trolley wire target systems are operated manually via a forward-stop-retu control switch located at the firing line.