

From: Marc Brooks
To: "Steve M. Shipman" <SMSHIPMA@southernco.com>
Date: 12/13/2006 9:21:53 AM
Subject: RE: Re: IMPASSE Fencing/Barriers
cc: "Douglas Huyck" <DGH2@nrc.gov>

Steve,

The folks in DoD advised they were not cognizant of any independent testing that was conducted by the staff associated with Force Protection Battle Lab or Force Protection System Squadron. However, as you may be aware, it was noted that the Department of State has tested it and gave the fence a K-8 rating. Please see attached links to applicable reference documents.

http://www.ameristarfence.com/includes/products/impasseforantiramapplications/specs/2/impasseforantiramapplications_2.pdf

<https://pdc.usace.army.mil/library/BarrierCertification>

If there is any additional assistance desired, please do not hesitate to ask.

Marc

>>> "Shipman, Steve M." <SMSHIPMA@southernco.com> 11/27/2006 3:00:54 PM >>>
Marc

Thanks for the email and for trying to track some testing info. That is the fence style we were discussing. Of course, IMPASSE is a trade name but I don't know of anyone else who is marketing a similar product at this time.

Steven M. Shipman
Southern Nuclear Operating Company
Sr. Engineer/Engineering Programs-Security
205-992-5706
205-992-5145 (fax)
smsnipma@southernco.com

-----Original Message-----

From: Marc Brooks [<mailto:MAB9@nrc.gov>]
Sent: Tuesday, November 21, 2006 4:26 PM
To: Shipman, Steve M.
Subject: Fwd: Re: IMPASSE Fencing/Barriers

Steven,

Truly appreciated your time, feedback and discussion that occurred during my recent visit to the Vogtle site in conjunction with the Vogtle ESP site audit/tour.

Per our discussions, a description of the IMPASSE high security fence has been forwarded to our respective contacts at DOE and the National Laboratories to determine if any governmental affiliated performance testing has been conducted and the results of those analyses. Unfortunately, due to the holiday season we are awaiting these results and will apprise you of the results.

However, with only having the fence name, please confirm that the fence described in the attached web-links is the actual fencing being considered for emplacement at the site:

http://www.ameristarfence.com/view_product.php?section=security;product=impasse

http://www.ameristarfence.com/view_product.php?section=security;product=impas;seforantiramapplications

Wishing you a Happy Thanksgiving and Holiday Season,

Respectfully,
Marc A. Brooks
Security Specialist
Division of Security Policy
Office of Nuclear Security & Incident Response
U.S. Nuclear Regulatory Commission

Hearing Identifier: Vogtle_Public
Email Number: 295

Mail Envelope Properties (460BD5AB.HQGWDO01.TWGWPO04.200.2000007.1.75C6A.1)

Subject: RE: Re: IMPASSE Fencing/Barriers
Creation Date: 12/13/2006 9:21:53 AM
From: Marc Brooks

Created By: MAB9@nrc.gov

Recipients "Douglas Huyck" <DGH2@nrc.gov>
"Steve M. Shipman" <SMSHIPMA@southernco.com>

Post Office TWGWPO04.HQGWDO01
Route nrc.gov

| Files | Size | Date & Time | |
|--|-------------|------------------------|---------|
| MESSAGE | 2488 | 12/13/2006 9:21:53 AM | |
| IMPASSE DoS_Certified_Vehicle_Barriers_Rev_A-04-05-06[1].pdf | | 3/29/2007 3:05:15 PM | 200814 |
| IMPASSE DODCertifiedVehicleBarriersREV03-22-06[1].pdf | | 3/29/2007 3:05:15 PM | 19019 |
| impasseforantiramapplications_2.pdf | | 3/29/2007 3:05:15 PM | 2092234 |

Options
Priority: Standard
Reply Requested: No
Return Notification: None
None

Concealed Subject: No
Security: Standard



BUREAU *of* DIPLOMATIC SECURITY

U.S. DEPARTMENT OF STATE

CERTIFIED ANTI-RAM VEHICLE BARRIERS

Tuesday, October 03, 2006

The Department of State's (DOS) physical security concept is to create a layered or "tiered" defensive system which consists of both active and passive perimeter barriers to delay intruders. The Department has a performance standard and testing procedure for both active entrance barriers and passive perimeter barriers designated as "vehicle-impact rated barriers," or "anti-ram barriers." This standard is SD-STD-02.01, Vehicle Crash Testing of Perimeter Barriers and Gates, Revision A, dated March 2003.

This test standard further rates the anti-ram barriers within three categories: K12, K8 and K4. The rating of the barrier is determined when a 15,000 lb. (6810 kg) gross-weight vehicle impacts a barrier from a perpendicular direction. A K12 rating is achieved when a vehicle traveling at a nominal speed of 50 mph (80 kph) is successfully arrested by the barrier from the perpendicular direction. A K8 rating is achieved for a nominal speed of 40 mph (65 kph); and, a K4 rating is achieved for a nominal speed of 30 mph (50 kph). In order to be DOS certified at any rating, the maximum penetration of the cargo bed must be 1 meter or less.

The following list of DOS certified anti-ram barriers offers a mix of active barriers for use at entrances, and passive, fixed barriers for other perimeter applications. This certification only addresses the ability of the barrier, in its secure position, to withstand the impact and prevent penetration. It does not address operational suitability. Each physical security system must be chosen and tailored to the needs and local conditions of the individual installation. Should you have questions concerning the most effective system for your installation or facility, please feel free to contact the Physical Security Division within the Bureau of Diplomatic Security, at the following U.S. Department of State email address or through U.S. mail at the below address.

Mailing Address:
United States Department of State
Attn: DS/PSP/PSD Research and Development
Building SA-14, 8th Floor
Washington, DC 20520-1403

Email Address:
DSPSPPSDR&D@State.gov

The following barriers meet the certification criteria of the Department of State Standard SD-STD-02.01, Revision A, March 2003. Note that anti-ram barrier certification applies to crash performance only and not operational suitability or maintainability. DOS is not liable for improper installation of DOS certified equipment.



BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Beam

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|---|---|---|
| K 4 | Model 400A <u>Description:</u> Sliding beam | B & B ARMR Corporation 2009 Chenault Drive, Suite 114, Carrollton, TX 75006 | http://www.bb-armr.com Phone: (972) 385-7899 Fax: (972) 385-9887 Toll Free: (866) 367-0387 |
| K 4 | Bosik Bar VBS <u>Description:</u> Shallow foundation crash beam | Vanguard Protective Technologies 5459 Canotek Road, Ottawa, Ontario, Canada, K1J9M3 | http://www.allen-vanguard.com/ Phone: (613) 749-8343 Fax: (613) 749-8861 Toll Free: |
| K12 | Patriot <u>Description:</u> Hydraulic rising beam | Boon Edam Tomsed, Inc.- Intertex Division 402 McKinney Parkway, Lillington, NC 27546 | http://www.intertexbb.com/ Phone: (910) 814-3800 Fax: (910) 814-3899 Toll Free: |
| K12 | VSH 610 <u>Description:</u> Hydraulic rising beam | Heintzmann Security Systems Bessemerst. 80, D-44793 Bochum, Germany | Phone: +(492) 349-1440 Fax: +49(234) 914-4254 Toll Free: |
| K12 | Bosik Bar VBS <u>Description:</u> Deep foundation crash beam | Vanguard Protective Technologies 5459 Canotek Road, Ottawa, Ontario, Canada, K1J9M3 | http://www.allen-vanguard.com/ Phone: (613) 749-8343 Fax: (613) 749-8861 Toll Free: |

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BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Bollard

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|---|--|---|
| K 4 | Defender <u>Description:</u> Retractable bollards | Boon Edam Tomsed, Inc.- Intertex Division 402 McKinney Parkway, Lillington, NC 27546 | http://www.intertextbb.com/ Phone: (910) 814-3800 Fax: (910) 814-3899 Toll Free: |
| K 4 | DSC800 <u>Description:</u> Retractable bollards | Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551 | http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free: |
| K 4 | Hard Post EP-354A/ST 650 <u>Description:</u> Retractable bollards | U.S. Koei Technologies, Inc. 25506 Crenshaw Blvd, Torrance, CA 90505 | Phone: (310) 326-4053 Fax: (310) 326-4098 Toll Free: |
| K 8 | DSC701 <u>Description:</u> Retractable bollards | Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551 | http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free: |
| K 8 | Eagle Series Bollards <u>Description:</u> Retractable bollards | Eagle Security Group International, Inc. 4001 Carmichael Center, Suite 240, Montgomery, AL 36106 | http://www.eaglesecgrp.com/ Phone: (334) 279-1557 Fax: (334) 279-4959 Toll Free: |
| K 8 | Hard Post EP-354A/ST 700 <u>Description:</u> Retractable bollards | U.S. Koei Technologies, Inc. 25506 Crenshaw Blvd, Torrance, CA 90505 | Phone: (310) 326-4053 Fax: (310) 326-4098 Toll Free: |

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DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Bollard

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|--|---|---|
| K12 | DSC720 <u>Description:</u> Retractable bollards | Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551 | http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free: |
| K12 | NMSB VI <u>Description:</u> Retractable bollards | Nasatka Barrier, Inc. 7702-B Old Alexandria Ferry Road, Clinton, MD 20735 | http://www.nbistop.com/index.html Phone: (301) 868-0301 Fax: (301) 868-0524 Toll Free: |
| K12 | NITS Model 400 <u>Description:</u> Retractable bollards | National Intelligent Traffic Systems 5131 Post Road, Suite 300, Dublin, OH 43017 | http://www.nationalits.com/default.asp Phone: (614) 526-3231 Fax: (614) 526-3227 Toll Free: |
| K12 | DRT K-12 <u>Description:</u> Retractable bollards | Perimeter Defense Technologies, LP 4315 SCR 1290, Odessa, TX 79765 | http://www.perimeterdefensetech.com/page2.html Phone: (432) 561-8006 Fax: (432) 561-8031 Toll Free: |
| K12 | PDT1200 <u>Description:</u> Retractable bollards | Perimeter Defense Technologies, LP 4315 SCR 1290, Odessa, TX 79765 | http://www.perimeterdefensetech.com/page2.html Phone: (432) 561-8006 Fax: (432) 561-8031 Toll Free: |
| K12 | Hard Post EP-354A <u>Description:</u> Retractable bollards | U.S. Koei Technologies, Inc. 25506 Crenshaw Blvd, Torrance, CA 90505 | Phone: (310) 326-4053 Fax: (310) 326-4098 Toll Free: |

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BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Drop Arm/Bar

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|--|---|---|
| K 4 | Model 730 <u>Description:</u> Hydraulic drop-arm bar | B & B ARMR Corporation 2009 Chenault Drive, Suite 114, Carrollton, TX 75006 | http://www.bb-armr.com Phone: (972) 385-7899 Fax: (972) 385-9887 Toll Free: (866) 367-0387 |
| K 4 | StopGate Barrier Arm <u>Description:</u> 32 foot barrier arm | Energy Absorption Systems, Inc. 3617 Cincinnati Avenue, Rocklin, CA 95765 | http://www.energyabsorption.com/index.htm Phone: (916) 645-8181 Fax: (916) 645-3495 Toll Free: |
| K 4 | Model 730 <u>Description:</u> Hydraulic drop bar | Salzer Building Security Dietrich-Bonhoeffer Street 1-3, D-35037 Marburg, Germany | http://www.saelzer.de/ Phone: 496(421) 93-8168 Fax: 496(421) 93-8191 Toll Free: |
| K 8 | VPL-CB-24 <u>Description:</u> Anti-ram drop arm bar | Autogate, Inc. 7306 Driver Road, Berlin Heights, OH 44814 | http://www.autogate.com/ Phone: (800) 944-4283 Fax: (419) 588-3514 Toll Free: (800) 944-4283 |
| K12 | DSC7000 <u>Description:</u> Drop-arm barrier with manual or hydraulic capabilities | Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551 | http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free: |
| K12 | NMSB XII <u>Description:</u> Hydraulic drop-arm bar | Nasatka Barrier, Inc. 7702-B Old Alexandria Ferry Road, Clinton, MD 20735 | http://www.nbistop.com/index.html Phone: (301) 868-0301 Fax: (301) 868-0524 Toll Free: |

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BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Drop Arm/Bar

| <u>Rating</u> | <u>Model</u> | <u>Manufacturer/Designer/Distributor</u> | <u>Contact Information</u> |
|---------------|---|--|---|
| K12 | Permanent Arrestor <u>Description:</u> Surface-mounted hydraulic gate arm | PRO Barrier Engineering LLC 228 Grandview Drive, Hummelstown, PA 17036 | http://www.probarrier.com/ Phone: (717) 566-9347 Fax: (717) 566-9309 Toll Free: |

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BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Gate

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|--|--|--|
| K 4 | Model 400 <u>Description:</u> Sliding gate | B & B ARMOR Corporation 2009 Chenault Drive, Suite 114, Carrollton, TX 75006 | http://www.bb-armr.com Phone: (972) 385-7899 Fax: (972) 385-9887 Toll Free: (866) 367-0387 |
| K 4 | SGHS1209 (NOR40) <u>Description:</u> Sliding gate | Norshield Security Products 3224 Mobile Highway, Montgomery, AL 36108 | http://www.norshield.net Phone: (334) 281-8440 Fax: (334) 286-4399 Toll Free: (800) 633-1968 |
| K 4 | FIGS <u>Description:</u> Sliding gate | Tymetal Corporation 2549 State Route 40, Greenwich, NY 12834 | http://www.tymetal.com/ Phone: (800) 328-4283 Fax: (518) 692-9404 Toll Free: (800) 328-4283 |
| K12 | Model 450A <u>Description:</u> Sliding beam | B & B ARMOR Corporation 2009 Chenault Drive, Suite 114, Carrollton, TX 75006 | http://www.bb-armr.com Phone: (972) 385-7899 Fax: (972) 385-9887 Toll Free: (866) 367-0387 |
| K12 | Model 450 <u>Description:</u> Sliding gate | B & B ARMOR Corporation 2009 Chenault Drive, Suite 114, Carrollton, TX 75006 | http://www.bb-armr.com Phone: (972) 385-7899 Fax: (972) 385-9887 Toll Free: (866) 367-0387 |
| K12 | Model 32503 <u>Description:</u> Manual security gate | Creative Building Products 6409 Highview Drive, Fort Wayne, IN 46818- 1385 | http://www.soacorp.com/index.htm Phone: (260) 432-7158 Fax: (260) 459-0929 Toll Free: (800) 860-2855 |

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BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Gate

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|--|--|---|
| K12 | <p>TT280</p> <p><u>Description:</u> Sliding gate</p> | <p>Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551</p> | <p>http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free:</p> |
| K12 | <p>NMSB XX</p> <p><u>Description:</u> Sliding gate</p> | <p>Nasatka Barrier, Inc. 7702-B Old Alexandria Ferry Road, Clinton, MD 20735</p> | <p>http://www.nbistop.com/index.html Phone: (301) 868-0301 Fax: (301) 868-0524 Toll Free:</p> |
| K 8 | <p>GRAB K8 36-ft. Lane</p> <p><u>Description:</u> Road closure system; energy absorbing net</p> | <p>Universal Safety Response, Inc. 277 Mallory Station Road, Suite 112, Franklin, TN 37067</p> | <p>http://www.usrgrab.com/ Phone: (615) 224-0400 Fax: (615) 224-0411 Toll Free:</p> |
| K 8 | <p>GRAB K8 Single Lane</p> <p><u>Description:</u> Road closure system; energy absorbing net</p> | <p>Universal Safety Response, Inc. 277 Mallory Station Road, Suite 112, Franklin, TN 37067</p> | <p>http://www.usrgrab.com/ Phone: (615) 224-0400 Fax: (615) 224-0411 Toll Free:</p> |
| K12 | <p>Barrier1</p> <p><u>Description:</u> Road closure system; 60 foot net based barrier</p> | <p>Barrier1 Systems, Inc. 818 Northen Shores Point, Greensboro, NC 27455</p> | <p>http://www.barrier1.us/ Phone: (336) 362-1980 Fax: (336) 288-9879 Toll Free:</p> |
| K12 | <p>GRAB K12 36-ft. Lane</p> <p><u>Description:</u> Road closure system; energy absorbing net</p> | <p>Universal Safety Response, Inc. 277 Mallory Station Road, Suite 112, Franklin, TN 37067</p> | <p>http://www.usrgrab.com/ Phone: (615) 224-0400 Fax: (615) 224-0411 Toll Free:</p> |

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BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Wedge

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|--|---|--|
| K 8 | <u>Mini-Magnum Description:</u> Narrow blade hydraulic wedge | Boon Edam Tomsed, Inc.- Intertex Division 402 McKinney Parkway, Lillington, NC 27546 | http://www.intertextbb.com/ Phone: (910) 814-3800 Fax: (910) 814-3899 Toll Free: |
| K 8 | <u>RSS-2000 Description:</u> Electric wedge barrier | Robotic Security Systems, Inc. 6530 Highway 22, Panama City, FL 32404 | http://www.rssbarriers.com/ Phone: (866) 249-1029 Fax: (850) 874-2189 Toll Free: (866) 249-1029 |
| K 8 | <u>Bavak Roadblocker Description:</u> Wedge barrier | Sampson Security Group, Bavak USA 3321 Christina Drive, Dana Point, CA 92629 | http://www.sampsonsecurity.com/ Phone: (866) 481-2388 Fax: (949) 388-0669 Toll Free: (866) 481-2388 |
| K12 | <u>RSB 78 Description:</u> Surface-mounted hydraulic wedge without buttresses | Automatic Systems America, Inc. 8 Haven Avenue, Suite 205, Port Washington, NY 11050 | http://www.automaticsystems.com/ Phone: (516) 944-9498 Fax: (516) 767-3446 Toll Free: |
| K12 | <u>Model 820 Description:</u> Hydraulic shallow-mount plate | B & B ARMOR Corporation 2009 Chenault Drive, Suite 114, Carrollton, TX 75006 | http://www.bb-armr.com Phone: (972) 385-7899 Fax: (972) 385-9887 Toll Free: (866) 367-0387 |
| K12 | <u>Magnum Description:</u> Hydraulic wedge | Boon Edam Tomsed, Inc.- Intertex Division 402 McKinney Parkway, Lillington, NC 27546 | http://www.intertextbb.com/ Phone: (910) 814-3800 Fax: (910) 814-3899 Toll Free: |

The following barriers meet the certification criteria of the Department of State Standard SD-STD-02.01, Revision A, March 2003. Note that anti-ram barrier certification applies to crash performance only and not operational suitability or maintainability. DOS is not liable for improper installation of DOS certified equipment.



BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Wedge

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|---|--|---|
| K12 | <u>Stinger Description:</u> Shallow mount hydraulic wedge | Boon Edam Tomsed, Inc.- Intertex Division 402 McKinney Parkway, Lillington, NC 27546 | http://www.intertextbb.com/ Phone: (910) 814-3800 Fax: (910) 814-3899 Toll Free: |
| K12 | <u>TT207S/FM Description:</u> Surface-mounted hydraulic wedge | Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551 | http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free: |
| K12 | <u>TT207S Description:</u> Surface-mounted hydraulic wedge | Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551 | http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free: |
| K12 | <u>DSC501 Description:</u> surface-mounted hydraulic wedge without buttresses | Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551 | http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free: |
| K12 | <u>DSC2000 Description:</u> Surface-mounted hydraulic wedge without buttresses | Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551 | http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free: |
| K12 | <u>Eagle Series Wedge Barrier Description:</u> Shallow mount hydraulic wedge | Eagle Security Group International, Inc. 4001 Carmichael Center, Suite 240, Montgomery, AL 36106 | http://www.eaglesecgrp.com/ Phone: (334) 279-1557 Fax: (334) 279-4959 Toll Free: |

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BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Wedge

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|--|---|---|
| K12 | NMSB V <u>Description:</u> Hydraulic wedge | Nasatka Barrier, Inc. 7702-B Old Alexandria Ferry Road, Clinton, MD 20735 | http://www.nbistop.com/index.html Phone: (301) 868-0301 Fax: (301) 868-0524 Toll Free: |
| K12 | NMSB IIIb <u>Description:</u> Surface-mounted hydraulic wedge; single buttress | Nasatka Barrier, Inc. 7702-B Old Alexandria Ferry Road, Clinton, MD 20735 | http://www.nbistop.com/index.html Phone: (301) 868-0301 Fax: (301) 868-0524 Toll Free: |
| K12 | NMSB IV <u>Description:</u> Hydraulic wedge | Nasatka Barrier, Inc. 7702-B Old Alexandria Ferry Road, Clinton, MD 20735 | http://www.nbistop.com/index.html Phone: (301) 868-0301 Fax: (301) 868-0524 Toll Free: |
| K12 | NMSB IIIc <u>Description:</u> Surface-mounted hydraulic wedge; no buttresses | Nasatka Barrier, Inc. 7702-B Old Alexandria Ferry Road, Clinton, MD 20735 | http://www.nbistop.com/index.html Phone: (301) 868-0301 Fax: (301) 868-0524 Toll Free: |
| K12 | NMSB II <u>Description:</u> Surface-mounted hydraulic wedge; double buttress | Nasatka Barrier, Inc. 7702-B Old Alexandria Ferry Road, Clinton, MD 20735 | http://www.nbistop.com/index.html Phone: (301) 868-0301 Fax: (301) 868-0524 Toll Free: |
| K12 | WBHS916 (NOR82) <u>Description:</u> Shallow-mounted hydraulic wedge | Norshield Security Products 3224 Mobile Highway, Montgomery, AL 36108 | http://www.norshield.net Phone: (334) 281-8440 Fax: (334) 286-4399 Toll Free: (800) 633-1968 |

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BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Active Wedge

| <u>Rating</u> | <u>Model</u> | <u>Manufacturer/Designer/Distributor</u> | <u>Contact Information</u> |
|---------------|--|--|---|
| K12 | <u>VSB-F10</u> <u>Description:</u> Hydraulic wedge | Performance Development Corporation 109 Jefferson Ave., Oak Ridge, TN 37830 | http://www.pdcproducts.com/fixedinvert.html Phone: (865) 481-2280 Fax: (865) 425-1249 Toll Free: |
| K12 | <u>RSS-2000</u> <u>Description:</u> Electric wedge barrier | Robotic Security Systems, Inc. 6530 Highway 22, Panama City, FL 32404 | http://www.rssi barriers.com/ Phone: (866) 249-1029 Fax: (850) 874-2189 Toll Free: (866) 249-1029 |

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BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Passive Bollard

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|---|--|--|
| K 4 | <p>ASP1-0706</p> <p><u>Description:</u> Shallow bollard system</p> | <p>Atlas Security Products, Inc. P.O. Box 59423, Rockville, MD 20859</p> | <p>http://www.atlasspi.com Phone: (866) 472-8527 Fax: (240) 238-2814 Toll Free: (866) 472-8527</p> |
| K 4 | <p>DSC800FP</p> <p><u>Description:</u> Fixed bollards</p> | <p>Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551</p> | <p>http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free:</p> |
| K 4 | <p>CBHS1230 (NSS30)</p> <p><u>Description:</u> Fixed bollards</p> | <p>Norshield Security Products 3224 Mobile Highway, Montgomery, AL 36108</p> | <p>http://www.norshield.net Phone: (334) 281-8440 Fax: (334) 286-4399 Toll Free: (800) 633-1968</p> |
| K 4 | <p>Anti-Ram Bollard System</p> <p><u>Description:</u> Anti-ram bollard system with 5 inch footing</p> | <p>RSA Protective Technologies, LLC 1573 Mimosa Court, Upland, CA 91784</p> | <p>http://www.rsaprotect.com/ Phone: (909) 946-0964 Fax: (909) 946-1186 Toll Free:</p> |
| K 4 | <p>Foundation Bollard Pad</p> <p><u>Description:</u> 14 inch depth fixed bollards</p> | <p>RSA Protective Technologies, LLC 1573 Mimosa Court, Upland, CA 91784</p> | <p>http://www.rsaprotect.com/ Phone: (909) 946-0964 Fax: (909) 946-1186 Toll Free:</p> |
| K 4 | <p>Model K4</p> <p><u>Description:</u> Fixed bollards</p> | <p>Secure Site Design LLC (Victor Stanley Inc) P.O. Box 60910, Potomac, MD 20859</p> | <p>http://www.securesitedesign.com/ Phone: (410) 286-3375 Fax: (410) 479-0175 Toll Free: (800) 268-4726</p> |

The following barriers meet the certification criteria of the Department of State Standard SD-STD-02.01, Revision A, March 2003. Note that anti-ram barrier certification applies to crash performance only and not operational suitability or maintainability. DOS is not liable for improper installation of DOS certified equipment.



BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Passive Bollard

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|---|---|---|
| K 4 | Shallow Mount Bollard System <u>Description:</u> Shallow-mounted bollard system | Secure USA, Incorporated 4250 Keith Bridge Road, Suite 160, Cumming, GA 30041 | http://www.secureusa.net/ Phone: (770) 205-0789 Fax: (770) 889-7939 Toll Free: (888) 222-4559 |
| K 8 | DSC701FP <u>Description:</u> Fixed bollards | Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551 | http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free: |
| K 8 | Anti-Ram Bollard System <u>Description:</u> Anti-ram bollard system with 5 inch footing | RSA Protective Technologies, LLC 1573 Mimosa Court, Upland, CA 91784 | http://www.rsaprotect.com/ Phone: (909) 946-0964 Fax: (909) 946-1186 Toll Free: |
| K 8 | Anti-Ram Bollard System <u>Description:</u> Anti-ram bollard system with 8 inch footing | RSA Protective Technologies, LLC 1573 Mimosa Court, Upland, CA 91784 | http://www.rsaprotect.com/ Phone: (909) 946-0964 Fax: (909) 946-1186 Toll Free: |
| K12 | Titan <u>Description:</u> Bollard | Boon Edam Tomsed, Inc.- Intertex Division 402 McKinney Parkway, Lillington, NC 27546 | http://www.intertexbb.com/ Phone: (910) 814-3800 Fax: (910) 814-3899 Toll Free: |
| K12 | DSC720FP <u>Description:</u> Fixed bollards | Delta Scientific Corporation 40335 Delta Lane, Palmdale, CA 93551 | http://www.deltascientific.com/home.htm Phone: (661) 575-1100 Fax: (661) 257-1081 Toll Free: |

The following barriers meet the certification criteria of the Department of State Standard SD-STD-02.01, Revision A, March 2003. Note that anti-ram barrier certification applies to crash performance only and not operational suitability or maintainability. DOS is not liable for improper installation of DOS certified equipment.



BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Passive Bollard

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|--|---|--|
| K12 | <u>DS-22R</u> <u>Description:</u> Removable concrete-filled steel bollards | U.S. Department of State DS/PSD, SA-14, 8th Flr, Washington, DC 20522 | Phone: (703) 312-3215 Fax: (703) 312-3177 Toll Free: |
| K12 | <u>DS-22</u> <u>Description:</u> Concrete-filled steel bollards with 48 inch opening | U.S. Department of State DS/PSD, SA-14, 8th Flr, Washington, DC 20522 | Phone: (703) 312-3215 Fax: (703) 312-3177 Toll Free: |
| K12 | <u>DS-10</u> <u>Description:</u> Pedestrian passage concrete-filled steel bollards in groups of three | U.S. Department of State DS/PSD, SA-14, 8th Flr, Washington, DC 20522 | Phone: (703) 312-3215 Fax: (703) 312-3177 Toll Free: |
| K12 | <u>DS-1</u> <u>Description:</u> Concrete-filled steel bollards (36 inches on center) with connecting channel | U.S. Department of State DS/PSD, SA-14, 8th Flr, Washington, DC 20522 | Phone: (703) 312-3215 Fax: (703) 312-3177 Toll Free: |

The following barriers meet the certification criteria of the Department of State Standard SD-STD-02.01, Revision A, March 2003. Note that anti-ram barrier certification applies to crash performance only and not operational suitability or maintainability. DOS is not liable for improper installation of DOS certified equipment.



BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Passive Fence

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|---|---|--|
| K 8 | <p>Ameristar Impasse Perimeter Security Fence</p> <p><u>Description:</u> Security fence with two 1 inch cables diagonally anchored; incorporated with an anti-climb fence</p> | <p>Ameristar Fence Products 1555 N. Mingo Road, Tulsa, OK 74116</p> | <p>http://www.ameristarfence.com/ Phone: (866) 467-2773 Fax: (918) 879-6001 Toll Free: (866) 467-2773</p> |
| K 8 | <p>Merchant Metals High Security Fence System</p> <p><u>Description:</u> Cable fence system</p> | <p>Merchants Metals 3838 N. Sam Houston Parkway E, Suite 600, Houston, TX 77032</p> | <p>http://www.merchantsmetals.com/default.asp Phone: (281) 372-3800 Fax: (281) 372-3801 Toll Free: (866) 888-5611</p> |
| K12 | <p>Ameristar Impasse Perimeter Security Fence</p> <p><u>Description:</u> Security fence with three 1 inch cables with bollard anchorage.</p> | <p>Ameristar Fence Products 1555 N. Mingo Road, Tulsa, OK 74116</p> | <p>http://www.ameristarfence.com/ Phone: (866) 467-2773 Fax: (918) 879-6001 Toll Free: (866) 467-2773</p> |
| K12 | <p>DS-40</p> <p><u>Description:</u> Anti-ram, anti-climb fence</p> | <p>U.S. Department of State DS/PSD, SA-14, 8th Flr, Washington, DC 20522</p> | <p>Phone: (703) 312-3215 Fax: (703) 312-3177 Toll Free:</p> |

The following barriers meet the certification criteria of the Department of State Standard SD-STD-02.01, Revision A, March 2003. Note that anti-ram barrier certification applies to crash performance only and not operational suitability or maintainability. DOS is not liable for improper installation of DOS certified equipment.



BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Passive Planter/Other Passive Surface Barriers

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|---|---|---|
| K12 | C4315 <u>Description:</u> Two deep bottom tier with two deep top tier; 3 ft. x 4 ft. open-topped sand-filled cube | HESCO Bastion, LTC 37 Knowsthorpe Gate, Cross Green Ind. Estate, Leeds LS9 0NP, UK | http://www.hescobastion.com/US_site/enter_us.html Phone: +44 11(3 2) 48 -6633 Fax: +44 11(3 2) 48 -3501 Toll Free: |
| K12 | Mil 3 <u>Description:</u> Two deep bottom tier with a single top tier of open-topped sand-filled cubes | HESCO Bastion, LTC 37 Knowsthorpe Gate, Cross Green Ind. Estate, Leeds LS9 0NP, UK | http://www.hescobastion.com/US_site/enter_us.html Phone: +44 11(3 2) 48 -6633 Fax: +44 11(3 2) 48 -3501 Toll Free: |
| K12 | C3315 <u>Description:</u> Two deep bottom tier with two deep top tier; 3 ft. x 3 ft. open-topped sand-filled cube | HESCO Bastion, LTC 37 Knowsthorpe Gate, Cross Green Ind. Estate, Leeds LS9 0NP, UK | http://www.hescobastion.com/US_site/enter_us.html Phone: +44 11(3 2) 48 -6633 Fax: +44 11(3 2) 48 -3501 Toll Free: |
| K12 | Mil 1 <u>Description:</u> Two deep bottom tier with a single top tier of open-topped sand-filled cubes | HESCO Bastion, LTC 37 Knowsthorpe Gate, Cross Green Ind. Estate, Leeds LS9 0NP, UK | http://www.hescobastion.com/US_site/enter_us.html Phone: +44 11(3 2) 48 -6633 Fax: +44 11(3 2) 48 -3501 Toll Free: |
| K12 | DS-9 <u>Description:</u> Reinforced concrete planter | U.S. Department of State DS/PSD, SA-14, 8th Flr, Washington, DC 20522 | Phone: (703) 312-3215 Fax: (703) 312-3177 Toll Free: |

The following barriers meet the certification criteria of the Department of State Standard SD-STD-02.01, Revision A, March 2003. Note that anti-ram barrier certification applies to crash performance only and not operational suitability or maintainability. DOS is not liable for improper installation of DOS certified equipment.



BUREAU of DIPLOMATIC SECURITY

DS CERTIFIED ANTI-RAM VEHICLE BARRIERS

Type of Barrier: Passive Wall

| Rating | Model | Manufacturer/Designer/Distributor | Contact Information |
|--------|---|--|--|
| K 4 | DS-7 <u>Description:</u> Anti-ram foundation wall | U.S. Department of State DS/PSD, SA-14, 8th Flr, Washington, DC 20522 | Phone: (703) 312-3215 Fax: (703) 312-3177 Toll Free: |
| K12 | Metalith Perimeter Security Wall <u>Description:</u> Sand-filled wall | Corrugated Metals, Inc. 3575 Morreim Drive, Belvidere, IL 61008 | http://www.corrugated-metals.com/metalith.htm Phone: (815) 323-1310 Fax: (815) 323-1317 Toll Free: (800) 621-5617 |
| K12 | CBP05001 Perimeter Wall <u>Description:</u> Sand-filled wall | Creative Building Products 6409 Highview Drive, Fort Wayne, IN 46818-1385 | http://www.soacorp.com/index.htm Phone: (260) 432-7158 Fax: (260) 459-0929 Toll Free: (800) 860-2855 |
| K12 | DS-30 <u>Description:</u> 10 inch thick reinforced concrete wall; 9 feet tall | U.S. Department of State DS/PSD, SA-14, 8th Flr, Washington, DC 20522 | Phone: (703) 312-3215 Fax: (703) 312-3177 Toll Free: |
| K12 | DS-6 <u>Description:</u> Anti-ram knee wall; 20 inches thick; 36 inches tall | U.S. Department of State DS/PSD, SA-14, 8th Flr, Washington, DC 20522 | Phone: (703) 312-3215 Fax: (703) 312-3177 Toll Free: |
| K12 | DS-50 <u>Description:</u> Anti-ram knee wall; 39 inches tall | U.S. Department of State DS/PSD, SA-14, 8th Flr, Washington, DC 20522 | Phone: (703) 312-3215 Fax: (703) 312-3177 Toll Free: |

The following barriers meet the certification criteria of the Department of State Standard SD-STD-02.01, Revision A, March 2003. Note that anti-ram barrier certification applies to crash performance only and not operational suitability or maintainability. DOS is not liable for improper installation of DOS certified equipment.

05 October 2006

DOD CERTIFIED ANTI-RAM VEHICLE BARRIERS

(THE FOLLOWING BARRIERS MEET THE CERTIFICATION CRITERIA OF SD-STD-02.01, REVISION A, DATED MARCH 2003, WITH THE EXCEPTION OF PENETRATION, WHICH HAS BEEN EVALUATED FOR CONFORMANCE WITH SD-STD-02.01, APRIL 1985)

ALL BARRIERS CONTAINED IN THE CURRENT *DS CERTIFIED ANTI-RAM VEHICLE BARRIERS* LIST ARE ALSO TO BE CONSIDERED DOD CERTIFIED

The following table contains equipment that has been approved by the Protective Design Center for use at DoD facilities.¹

| Manufacturer/ Designer/Distributor | Barrier Model | Rating |
|---|--|---|
| Ameristar Fence Products 1555 N. Mingo Road Tulsa, OK 74116 (866) 467-2773 Tel (877) 926-3747 Fax | Impasse Stalwart Perimeter Security Fence (3 – 1” Cables) | K12/L2² |
| B&B ARMR Corp. 9063 Jerry’s Circle Manassas, VA 20110 (703) 335-6006 Tel (703) 335-8822 Fax | 850 Portable Vehicle Barrier | K4/L1² |
| APT Controls The Power House, Chantry Place, Headstone Lane Harrow, Middlesex HA3 6NY +44 (0)20 8421 2411 Tel +44 (0)20 8421 3951 Fax | Titan Road Blocker | K12/L2² |
| Delta Scientific Corp. 24901 West Ave. Stanford Valencia, CA 91355 (661) 257-1800 Tel (661) 257-0617 Fax | MP5000 Mobile Barricade | K4/L1³ |
| Eagle Security Group International, Inc. 4001 Carmichael Road, Ste. 240 Montgomery, AL 36106 (334) 279-1557 Tel (334) 279-4959 Fax | Eagle Series Active Bollards Osprey Series Portable Wedge Barrier | K12/L2² K4/L2² |
| Secure USA, Inc. 4250 Keith Bridge Road, Suite 160 Cumming, GA 30041 (770) 205-0789 (770) 889-7939 | Secure USA Shallow Wedge Barrier | K4/L1² |
| | | |

The following table includes equipment found in previous versions of the DoS Certified Anti-Ram Vehicle Barrier list. The listed equipment was removed from the DoS list after issuance of SD-STD-02.01, Revision A, March 2003 due to changes that limited penetration to 1 meter or less.¹

| Manufacturer/ Designer/Distributor | Barrier Model | Rating |
|---|---|--|
| ARMR Services Corp. 9063 Jerry's Circle Manassas, VA 20110 (703) 335-6006 Tel (703) 335-8822 Fax | BTA (retractable bollards) Model B-30 (retractable bollards) | K4/L1² K8/L1² |
| Crisp & Associates 272 Airport Road Oliver Springs, TN 37840 (865) 435-6602 Tel (865) 435-3648 Fax | VSB-P10 (surface-mounted hydraulic wedge) VSB-F10 (hydraulic wedge) | K12/L1² K12/L3² |
| Delta Scientific Corp. 24901 West Ave. Stanford Valencia, CA 91355 (661) 257-1800 Tel (661) 257-0617 Fax | TT210 (retractable bollards) TT212EC (hydraulic drop bar) IP500 (portable hydr. drop bar) DSC1100 (surface-mounted hydr. wedge/quick deployment) | K4/L2² K4/L2² K4/L2² K8/L1² & K4/L2² |
| Intertex Barriers, Inc. 25103 Rye Canyon Loop Valencia, CA 91355 (661) 295-0339 Tel (661) 295-3235 Fax | Portapungi (hydraulic wedge) | K8/L1² |
| Nasatka Barrier, Inc. 7702-B Old Alexandria Ferry Road Clinton, MD 20735 (301) 868-0301 Tel (301) 868-0524 Fax | NMSB XV (portable barrier) | K4/L1² |
| Tymetal Corp. 2566 State Route 40 Greenwich, NY 12834 (800) 328-4283 Tel (518) 692-9404 Fax | FIGS (hydraulic sliding gate) | K12/L2² & K4/L3² |
| Universal Bollard Security Systems 500 W. Illinois Midland, TX 79701 (915) 687-1033 Tel (915) 687-2646 Fax | UBSS (set of six retractable bollards) | K12/L3² |

¹ Barrier selection must include an evaluation of site conditions to determine the acceptability and risk associated with use of barrier systems that may allow greater penetration.

² Rating determined from perpendicular barrier impact of 15,000lb. (6810kg) vehicle.
“K” indicates the DOS certified barrier's maximum vehicle impact speed rating; and
“L” indicates the test vehicle's distance of penetration upon impact with barrier.
K12 = 50 mph (80 kph) **L3** = 3 ft. (915 mm) or less
K8 = 40 mph (65 kph) **L2** = 3 ft. to 20 ft. (915 mm to 6.1 m)
K4 = 30 mph (48 kph) **L1** = 20 ft. to 50 ft. (6.1 m to 15.3 m)

³ Rating is actual DoS certified but fell in between the DoS 2003 listing with penetrations and publication of Revision A limiting penetration to 1 meter or less.

Note: Certification of the above barriers applies to crash performance only - not its operational suitability. DOD is not liable for improper installation of the equipment or the reliability of equipment contained in this list.



United States Department of State

Washington, D.C. 20520

JUL 21 2003

Ameristar Fence Products
1555 N. Mingo Road
Tulsa, OK 74116

Attention: Mr. Barry Willingham

Dear Mr. Willingham:

Based on the vehicle crash test at Texas Transportation Institute (TTI) on June 20, 2003 and the evaluation of the TTI Test Report 400001-APS4, the Ameristar Impasse Perimeter Security Fence with a one-inch cable and bollard anchorage, has been determined to meet the DOS certification criteria for vehicle barriers. Under the provisions of SD-STD-02.01, *Specification For Vehicle Crash Test of Perimeter Barriers and Gates*, dated April 1985, the Impasse System has been certified as a K8/L2 barrier.

The Impasse System will be placed on the DOS list of certified equipment that is available for use by architects and planners. Your product still has to compete with other bidding manufacturers who are certified with the same classification. We cannot guarantee that your product will be chosen by architects that design the facilities.

Thank you for your interest and endeavors in protecting our personnel and facilities overseas.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Wayne Ashbery", written over a horizontal line.

Wayne Ashbery
Director
Physical Security Division
Bureau of Diplomatic Security