

PROTECTIVE PRODUCTS  
INTERNATIONAL

March 7, 2007

RFQ: DPS0731

State of West Virginia  
Department of Administration  
Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305  
Attn: John Abbott

Dear Mr Abbott:

Being in the business of saving lives since 1993, Protective Products International thanks West Virginia State Police for the opportunity to present a bid proposal for Concealable Body Armor for RFQ Number DPS0731.

Headquartered in Sunrise, Florida, Protective Products International is one of the leading designers and manufacturers of state of the art concealable and tactical body armor. Our steadfast commitment to customer service over the past twelve years, coupled with a sincere dedication to product craftsmanship and superior quality, has not only become the cornerstone of Protective Products International, it has also made us a leader in the body armor industry.

Protective Products International is ISO 9001:2000 compliant and proudly manufacturers and assembles all its carriers and components in the United States. Our armor is guaranteed for five years and all of our body armor lines have received NIJ certification. Our facility is climate controlled to reduce the possibility of degradation of certain ballistic materials that may occur when exposed to the elements over time and Protective Products International is also fully staffed with a Research and Development Department as well as a Marketing Department to ensure we share with you the latest and best information on product development, design, and fit within a broad selection of models to best suit you.

Protective Products International has a broad network base of seasoned executives, production personnel, textile managers, cutter/sewers, highly trained customer service representatives, and manufacturer's representatives and distributors in place. We are confident you will find our pricing to be competitive and our product line superior.

Thank you again West Virginia State Police for the opportunity to submit a proposal for Body Armor. Should there be any questions or concerns during the selection process, please contact Cory Provenzano directly at [coryp@body-armor.com](mailto:coryp@body-armor.com) or (800)509-9111 with these concerns.

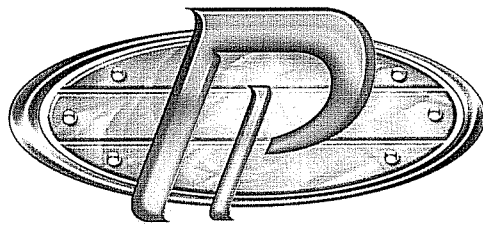
Sincerely,

Cory Provenzano / National Product Manager

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2007 MAR -8 A 9: 33

PURCHASING DIVISION  
STATE OF WV



PROTECTIVE PRODUCTS  
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# Request for Quotation

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DPS0731

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1

ADDRESS CORRESPONDENCE TO ATTENTION OF
JOHN ABBOTT 304-558-2544

RFQ COPY  
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

WEST VIRGINIA STATE POLICE  
  
 4124 KANAWHA TURNPIKE  
 SOUTH CHARLESTON, WV  
 25309 304-746-2141

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
02/20/2007				

BID OPENING DATE: **03/08/2007** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		680-08		
<p style="text-align: center;"><b>REQUEST FOR QUOTATION</b></p> <p>THE PURCHASING DIVISION IS SOLICITING BIDS FOR THE WEST VIRGINIA STATE POLICE TO PROVIDE AN OPEN-END CONTRACT FOR BULLIT RESISTANT BODY ARMOR.</p> <p>ATTACHMENTS: 1. SPECIFICATIONS / BID FORM 2. AFFIDAVIT</p> <p>THIS CONTRACT MAY BE USED BY ALL AUTHORIZED STATE, COUNTY, AND CITY AGENCIES SO LONG AS THE WV STATE POLICE RECEIVE ORDERS ON TIME AS STATED.</p> <p>SAMPLES: THE WV STATE POLICE RESERVES THE RIGHT TO REQUEST SAMPLES TO BE SUBMITTED FOR EVALUATION PURPOSES. THE COST OF DELIVERY AND PICK UP WILL BE THE RESPONSIBILITY OF THE VENDOR.</p> <p>VENDOR'S BIDDING AN EQUAL SHALL PROVIDE SPECIFICATION DOCUMENTATION, COLORED BROCHURES, AND TEST INFORMATION WITH THEIR BID.</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON ..... AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE</p>						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						

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<p>ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY</p>						

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<p>THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 04/11/2001            VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>( ) BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND</p>						

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<p>HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>( ) BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>( ) BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>( ) BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>( ) BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A</p>						

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<p>NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX &amp; REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE</p>						

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DATE PRINTED <b>02/20/2007</b>	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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<p>TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <i>Protective Products International</i></p> <p>DATE: <i>3.6.07</i></p> <p>SIGNED: <i>GP</i> <i>Cory Proventzano</i></p> <p>TITLE: <i>Product Manager</i></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION          PURCHASING DIVISION          BUILDING 15          2019 WASHINGTON STREET, EAST          CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p>						

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
SEALED BID						
BUYER:				JOHN ABBOTT-----		
RFQ. NO.:				DPS0731-----		
BID OPENING DATE:				03/08/2007-----		
BID OPENING TIME:				1:30 PM-----		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
				954-846-0555-----		
CONTACT PERSON (PLEASE PRINT CLEARLY):						
				Cory Provenzano-----		
***** THIS IS THE END OF RFQ DPS0731 ***** TOTAL: _____						

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The West Virginia State Police are soliciting competitive bids in the form of an open end contract for the purchase of bullet resistant body armor. Vendors submitting bids on this contract do not have to be registered in the State of West Virginia to submit a bid, but if the successful low bidder, must register with the State of West Virginia Purchasing Division and pay the \$125.00 registration fee.

#### GENERAL:

The WV State Police desire to purchase American Body Armor model XHP-III A or Equal. This armor has been reviewed by members of the WV State Police Special Response Team and K-9 Units. These members found this vest to meet the minimum specifications of the PACA vest and other vest previously utilized by the department. The aforementioned vest had a higher comfort level which is extremely important to encourage members to wear the vest. Members wearing their vest for their entire shift shall be comfortable, and vest shall not irritate the body in any way.

#### SCOPE:

Vest is intended for the use by male and female officers of the agency. The vest shall be worn comfortably while being concealed under a uniform shirt. Vest shall protect against labeled projectile penetration while reducing resultant blunt trauma and vest distortion to acceptable levels. The successful vendor shall be required to supply the individual vest with applicable options and colors as ordered for male or female officers.

Vest shall be certified under the NIJ 2005 Interim Requirement for Bullet Resistant Body Armor Threat Level 3A. Bids based on body armor models made by manufacturers other than American Body Armor must be clearly identified as such; those bidders must include a male and female sample, full product description, drawings and/or photos, technical specifications, as well as a list of at least ten (10) law enforcement agencies currently using that model armor for reference with their bid. **Bidders failing to submit this supporting documentation shall be rejected from the bid process.**

When the apparent low bidder has proposed an alternate product, that bidder shall demonstrate product equivalency to the satisfaction of the agency. Evidence equivalency shall be presented for each requirement of this specification and the burden of such equivalency rest entirely on the vendor. Any bidder may be required, at any time during the procurement process, to provide documentation proving compliance with any or all terms of this specification.

Only body armor models which have been tested by the National Institute of Justice (NIJ), National Law Enforcement Technology Center (NLETC) utilizing the methodology found in the NIJ 2005 Interim Requirement for bullet Resistant Body Armor, and found to comply with the NIJ 2005 Interim Requirement for Bullet Resistant Body Armor, for Type 3A Armor shall be submitted under this specification. NO EXCEPTIONS. Models certified under earlier standards and grandfathered into compliance with the NIJ 2005 Interim Requirement for Bullet Resistant Body Armor will

be rejected. Vendors must provide test results of any and all rounds that exceed NIJ 2005 Interim Requirement for Bullet Resistant Body Armor. This NIJ abbreviated testing is commonly known as "Special Threat" testing, testing of such rounds must be conducted by an NIJ approved laboratory.

#### APPLICABLE DOCUMENTS:

The following list of standards and specifications in effect on the date of this solicitation shall form a part of this specification

1. NIJ 200t Interim Requirement for Bullet Resistant Body Armor
2. MIL-STD-662, V50 Ballistic Test for Armor
3. Federal Standard no. 751, Stitches, seams, and stitching.
4. ISO 9001 Quality Assurance Certification
5. ANSI/ASQC-Q9000 Quality Standard, dated August 1, 1994
6. Additional Test reports of "Special Threat Testing from a certified NIJ Laboratory as required.

#### PURCHASE REQUIREMENTS:

The successful bidder must be a recognized wholesaler/retailer, which maintains a convenient location for measurement, fitting and service during regular business hours Monday through Friday. Any manufacturers, which bid direct, must include a service proposal as to how measuring, reworks, and customer service will be maintained without local distribution.

#### SPECIFIC QUANTITY

The agency has the right to determine quantity, if not otherwise specified. Of the total quantity purchased both male and female products will be represented. The agency has the right to adjust the total quantities while maintaining the accepted bid price.

#### DESIGN REQUIREMENTS:

The intended use of the soft body armor detailed herein is intended to be standard issue armor. It is intended for routine daily wear as an undergarment.

The soft body armor shall be designed to provide:

1. Light and thin NIJ 2005 Interim requirement for Bullet Resistant body armor in Level 3A
2. A high degree of concealment and comfort.
3. Minimum restriction of motion or mobility.
4. Optional carriers to allow for laundering and color changes.
5. Provide protection against the labeled projectiles in accordance with the NIJ 2005 Interim Requirement for Bullet Resistant Body Armor.

## GENERAL DESIGN:

The ballistic panels of soft body armor meeting this specification shall provide thin, flexible, lightweight comfort utilizing a matrix of two or more of the following: Wwaron, gold RS and Dyneema. There shall be no stitching completely through the entire ballistic panel(s), with the exception to tacks at the panel's edges. The soft body armor shall be designed for regular daily wear as an undergarment. Therefore, vest shall be designed and constructed to provide (1) light and thin NIJ 2005 Interim Requirement for Bullet Resistant Body Armor certified armor in Level 3A, (2) durability (3) ease of cleaning, (4) minimum restriction of motion or mobility and (5) the greatest amount of ballistic coverage consistent with comfort and concealment.

The general configuration shall be the slipover vest type that covers the majority of the upper torso, including side coverage. Availability for four or six elastic straps with hook and pile fasteners shall provide proper positioning and comfort. The entire vest perimeter shall be curved. No sharp corners or straight edges shall be allowed.

The front ballistic panel shall cover the chest approximately up to the collar bone, have a scooped neck sufficient to maintain concealability when wearing an open collar shirt, extend downward to the waist but not far enough to "push up into the throat" when the wearer is seated, and extend around the sides to provide side protection. The biceps/chest area shall be cut with sufficient space to minimize irritation and restriction of arm movement during common duties such as the operation of a motor vehicle.

The rear ballistic panel shall cover the back of the torso from just above the shoulder blades down to a position above the waist belt. The sides of the torso shall be covered by having side coverage from both the front and rear panels, as the department has determined that such a configuration maximizes both coverage and comfort. Accordingly, armor which maintains side coverage from only the front and rear panels *will be rejected*.

Panels and carriers shall be equipped with an internal suspension system, which prevents ballistic panels from sagging, ensuring full protection.

Each piece of soft body armor shall include the following:

1. One (1) set of ballistic panels (1 front, 1 rear)
2. One (1) complete NS washable carrier.
3. One (1) trauma reduction insert.

## OPTIONS:

The following will be optional equipment that can be purchased:

1. Cool Max Tee Shirt
2. Additional Akwadyne Comfort Mesh removable outer carrier.
3. Quilted outer carrier
4. Tactical outer carrier

**BALLISTIC PANEL MATERIALS**

All materials shall be new, unused and without flaws that affect appearance, durability and function. The ballistic panels shall be constructed of a matrix of two or more of the following: Twaron, gold RS and Dyneema. As the agency has selected these materials, any bids which represent products manufactured from other materials shall be rejected.

**PANEL CONSTRUCTION:**

The ballistic panels shall be constructed of a matrix of two or more of the following: Twaron, gold RS, and Dyneema. There shall be no stitching completely through the entire ballistic panel(s) with the exception to tacks at the panels edges.

All vests, which are submitted, shall represent armor, which in layer count is uniform throughout the ballistic panel. Accordingly, any ballistic panel, which is not uniform, in layer count, throughout the entire ballistic package, shall be rejected. If the manufacturer contends that such feathering of the armor is advantageous, then the armor shall be tested utilizing the least number of layers, which exist in any part of the ballistic package. Failure to submit such testing shall be cause for rejection.

It is the intent of the agency to procure the lightest weight, best performing personal armor available in relation to areal density, therefore a vest section of 12”X12” (one square foot) (30.5 cm X 30.5 cm) must not exceed the following

<b>Threat Level</b>	<b>maximum weight</b>	<b>maximum thickness</b>
3A	.97 lbs. sq. ft.	.18 inches

**BALLISTIC PANEL PERFORMANCE**

**V50 Performance**

Each bidder shall submit V50 Test reports for the vest being offered. The V50 test reports for the vest being offered. The V50 test shall be performed in accordance with MIL-STD-662F using NIJ 2005 Interim Requirement for Bullet Resistant Body Armor 9mm 124 grain FMJ test projectiles. The test must be performed by an independent laboratory approved by the National Institute of Justice (NIJ) National Law Enforcement technology Center (NLETC) for testing in accordance with NIJ 2005 Interim Requirement for Bullet Resistant Body Armor. Models grandfathered into compliance with the NIJ 2005 Requirement will be rejected. The vest must be tested under protocol

contained in the new NIJ 2005 Interim Requirement for Bullet resistant Body Armor. The V50 test shall be against clay backing. V-50 reports which represent testing without clay backing shall be rejected. Vendor shall provide written certification that all V 50 testing is accomplished with clay backing. Failure to provide certification shall be cause for rejection.

Test reports submitted by the bidder shall reflect the following minimum test results.

<b>Threat Level</b>	<b>Bullet Description</b>	<b>V50 Velocity (Minimum)</b>
3A	9mm, 124-grain fmjrn	1816 fps

Bid submissions not including NIJ required baseline V50 reported shall be rejected. In addition to the NIJ 2005 Interim Requirement for bullet resistant body armor required 9mm/V50 test report, each bidder must provide NIJ Base Line Test Reports on the following minimum test results.

<b>Threat Level</b>	<b>Bullet Description</b>	<b>V50 Velocity (Minimum)</b>
3A	44 mag.fjhp 240-grain	1640 fps

Relative Performance Index (RPI)

It has been determined that the relative strength to weight ratio of a ballistic design is important in determining its comfort/performance characteristics. The strength to weight ratio is calculated by dividing the areal weight (lbs. per square foot) into the performance V50 value. A high strength to weight ratio or Relative Performance Index (RPI) indicates a high degree of comfort & performance. Therefore, the minimum RPI shall be no lower than:

<b>Threat Level</b>	<b>Bullet Description</b>	<b>Relative Performance Index (RPI Minimum)</b>
3A	9mm, 124-grain FMJRN	1872 fps
3A	44 mag, FJP, 240-grain	1690 fps

Trauma Performance (BFS)

Blunt Trauma reduction is an important aspect of armor design. Low back face signature (BFS) should result in reduced blunt trauma injury. Therefore, the back face signature results of NIJ 2005 Interim Requirement for Bullet Resistant Armor certification test reports shall reflect BFS no higher than:

<b>Threat Level</b>	<b>Bullet Description</b>	<b>back face signature (BFS Maximum)</b>
---------------------	---------------------------	------------------------------------------

3A	9mm,124-grain FMJRN	28mm
3A	44 mag, FJHP, 240-grain	42mm

Bid submissions which do not meet this requirement , will be rejected.

#### LABELING

Label material shall withstand normal wear and cleaning and remain readable during the entire warranted life of the armor or carrier.

All soft body armor shall be labeled in strict adherence to the labeling requirement set forth in NIJ 2005 Interim Requirement for Bullet Resistant Body Armor. The ballistic panel labeling shall include, but not be limited to the following:

1. Name of Manufacturer
2. Level of Protection
3. NIJ 2005 Interim Requirement for Bullet Resistant Body Armor
4. Date of fabrication
5. Size
6. Serial Number
7. Model of Vest
8. Care instructions
9. Lot number.

#### BALLISTIC PANEL COVER MATERIAL

Each ballistic panel shall be covered in 100% anti-microbial Olefin treated for water repellency. Construction 70 denier and sized 110" X 85" (279cm x 215 cm) . Inner cover material must be stain-resistant, odor and mildew resistant. Material shall have no visible fabric or color flaws.

#### VEST OUTER CARRIER MATERIAL

Removable carrier-ns-carrier

The outer machine washable carrier shall be removable from the ballistic panels for laundering by way of zippers integrated into the outside of the garment. Carrier shall come with fixed waist and shoulder straps. Carrier shall come with (1) set of straps. Outer vest material shall be poly-cotton or micro mini-rip. The inner carrier material shall be Akwadyne Mesh. Male carrier shall have both a 7X9 and 5X8 pockets on the outer front of the carrier. All fabrics shall have no visible fabric or color flaws.

#### TRAUMA INSERT

A trauma reduction insert constructed of bullet resistant material cut five inch by eight inch shall be provided. The trauma reduction insert shall be placed in a nylon cover, which shall be tucked into one end of the ballistic material and sewn shut through to hold it in place.

## QUALITY CONTROL

The manufacturer must maintain a quality program certified under the ISO 9001 certification program by an accredited registrar under the accreditation of the Registrar Accreditation Board. The scope of the certification must include the Design and Manufacturing of technologically advanced personal safety equipment including concealable and tactical bullet resistant vests, custom body armor, composite armor, explosive ordinance protection, ballistic face and head protection, ballistic shields and other police and military apparel, and narcotic identification systems.

The documented quality control system must be designed to insure the integrity and quality of the manufactured products. The quality control system shall control all manufacturing process and incoming raw materials. The manufacturer must have an in-house ballistic laboratory capable of performing ballistic testing of incoming raw materials and in-process samples. The manufacturer must have the capability of performing testing in accordance with MIL-STD-662 and NIJ 2005 Interim Requirement for Bullet Resistant Body Armor. Procedures for lot testing of incoming raw materials and in process samples must be incorporated into the quality control system. All incoming ballistic material shall undergo V-50 ballistic lot test in accordance with MIL-STD-662. Every vest panel manufactures shall be subsequently inspected for proper ballistic panel stitching. Covers and accessories shall be re inspected during manufacturing for defects at selected points during manufacturing to assure the absence of hidden defects in the final item.

In addition, each vest shall receive a final inspection prior to shipment. This inspection shall include a review of the quality control check sheet and confirm the product against the customers order.

A copy of the Certificate of Accreditation, as well as the manufactures quality control program must be submitted with bid documents.

## SERIAL NUMBERS

Each unit of soft body armor delivered shall have an individual serial number. Each serialized soft body armor shall be traceable to its original ballistic material mill roll number. Additionally the soft body armor serial number shall be traceable t an incoming material lot test and ballistic panel lay up lot test. The vendor must have the ability to trace serial numbers.

## LOT TESTING



All incoming ballistic material shall undergo V50 ballistic lot test in accordance with MIL-STD-662F except that the test will be conducted on clay backing which meets the requirements of NIJ 2005 Interim Requirement for Bullet Resistant Body Armor for backing material.

#### MEASUREMENT AND FITTING

Unless otherwise stated, individual measurements will be taken of each user. Each delivered vest shall fit in accordance with the following guidelines:

1. The side edges of the front and back ballistic panels shall meet or overlap.
2. The bottom edge of the front ballistic panel shall be with one inch (1") of the highest waist belt (usually the duty belt) measurement when the wearer is in a relaxed seated position.
3. The bottom edge of the front ballistic panel shall be within one-inch (1") of the highest waist belt (usually the duty belt) measurement when the wearer is in a relaxed seated position.
4. Female sizes are determined based on individual measurements including bust size and are conformed through the use of sizing/fit samples in conjunction with a tape measure and a certified Size Right Program.

**The selected bidder must have a manufacturer armor-sizing program that utilizes certified representatives and distribution-trained personnel to properly size armor.**

#### FIT AND ALTERATION POLICY

The manufacturer shall perform all required alterations of more than one inch within 30 days after the original shipment of the product at no charge. Adjustments of an inch or less can be accomplished by utilizing the adjustable strap feature on the vest.

#### PRODUCT LIABILITY INSURANCE

Vest manufacture shall agree to provide a minimum of \$20,000,000.00 product liability insurance coverage on delivered vest.

#### WARRANTY

Ballistic Panels: For five (5) years after the date of purchase the manufacture will warrant the ballistic panels against defects in materials and workmanship.

The alteration of ballistic panels in any way shall render the warranty void.

#### REMOVABLE COVERS:

Removable machine washable covers shall be fully warranted for twelve (12) months after the date of purchase against any defects in the material and /or workmanship.

## PACKAGING

All soft body armor shall be packaged and shipped consistent with good commercial practices.

Plastic Bags: Each set of armor, along with its optional equipment shall be placed in an individual plastic bag.

Shipping Cartons: The soft body armor shall be packed into suitable corrugated cardboard box. The box shall allow for normal shipping without damage to the soft body armor.

## DOCUMENTATION

The following documents, certifications, test-reports and samples must be provided.

1. Models must be clearly identified and shall include:
  - a. Full product description
  - b. Complete bid sample, male and female
  - c. Drawings and/or photographs
  - d. Technical specifications
2. Manufacturers bidding direct must include a service proposal as to how measuring, alterations and customer service will be maintained without local distribution.
3. Compliance with NIJ 2005 Interim Requirement for bullet Resistant Body Armor and test reports from an accredited laboratory for the vest being certified under the NIJ 2005 Interim Requirement and not grandfather in under earlier standards.
  - a. Any ballistic rounds tested above and beyond the required NIJ 2005 Interim Requirement for Bullet Resistant body Armor standard for requested threat level requires a report from a NIJ Certified Laboratory. Any Bidder that does not provide such documentation at the time of the bid will be rejected.
4. V50 test reports performed in accordance with MIL-STD-662F. V50 testing must be accomplished with clay backing.
  - a. Test Reports must be submitted for the entire ballistic package.
  - b. Test reports must be submitted for incoming materials, which are utilized in the ballistic package.

- 5. Chemical test reports certifying use of Akwadyne fabric treatment
- 6. The ability to trace serial numbers.
- 7. The layer count of the vest must be uniform throughout the entire ballistic package. If not, test reports must be submitted for the vest utilizing the least amount of layers.
- 8. Quality Control Procedures
  - a. Incoming materials
  - b. Lay-up configuration
  - c. In-process configuration
  - d. Testing verification
  - e. Inspection of ballistic panel stitching
  - f. Random final product inspection and continuous in-process surveillance
- 9. Product Liability Insurance providing a minimum coverage of \$20,000,000.
- 10. Documentation stating a 5-year ballistic package warranty
- 11. Documentation stating a 12-month cover warranty
- 12. ISO-9001 Certificate

END OF SPECIFICATIONS & REQUIREMENTS:

COST

One (1) complete set of body armor including:

- 1. One (1) set of ballistic panels (1 front and 1 rear)
- 2. One (1) Complete NS washable carrier.
- 3. One (1) Trauma reduction insert

Total Cost per unit: \_\_\_\_\_ \$ 550.00

Optional Equipment:

Cool Max Tee shirt----- \$ 12.00

Additional Akwadnye Comfort Mesh  
Removable outer carrier----- \$ 65.00

Quilted outer carrier-----\$ 75.00  
Tactical outer carrier-----\$ 95.00

END OF PRICING:

# A F F I D A V I T

**West Virginia Code §5A-3-10a states:**

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:**

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**LICENSING:**

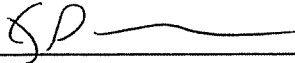
Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**CONFIDENTIALITY:**

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit [www.state.wv.us/admin/purchase/privacy](http://www.state.wv.us/admin/purchase/privacy) for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Protective Products International

Authorized Signature:  Date: 3-6-08



U.S. Department of Justice

Office of Justice Programs

*National Institute of Justice*

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Washington, D.C. 20530

October 21, 2005

Stephen G. Giordanella  
CEO  
Protective Products International  
530 Sawgrass Corporate Parkway  
Sunrise, FL 33325

**Notice of Compliance with NIJ 2005 Interim Requirements**

Body Armor Model: HC-820-III A                      Level: III A

Manufacturer: Protective Products International

Warranty Period: Not yet declared (additional submission required)

Dear Mr. Giordanella:

We have reviewed the documentation submitted by your company concerning the body armor model described above ("the Body Armor Model") in accordance with the *National Institute of Justice (NIJ) 2005 Interim Requirements for Bullet-Resistant Body Armor*.

The following documents were received:

Certification as to materials identified in NIJ Body Armor Standard Advisory Notices (NIJ Form IR-1);

Certification as to materials of construction of each component of the body armor model (NIJ Form IR-2);

Certification as to labeling of the armor (NIJ Form IR-3B ); and

Acknowledgment concerning NIJ's recent research findings, the NIJ 2005 Interim Requirements, and certain related matters (NIJ Form IR-4).

Based on our review of these documents, and on our previous determination (based on the submission of armor samples to NIJ's Voluntary Body Armor Compliance Testing Program) that the Body Armor Model satisfied the requirements of NIJ Standard-0101.04, NIJ deems the Body Armor Model to

comply with the *NIJ 2005 Interim Requirements for Bullet-Resistant Body Armor*. The Body Armor Model will be added to the list of armor models that comply with the NIJ 2005 Interim Requirements available at [www.justnet.org](http://www.justnet.org). To maintain the Body Armor Model's compliance status, however, your company must submit NIJ Form IR-5 ("Certification as to Ballistic Performance") **within 90 days of the date of this notice**. If a satisfactory certification on NIJ Form IR-5 is not submitted on a timely basis, the Body Armor Model will lose its compliance status and will be removed from the compliance list until it is submitted.

To complete NIJ Form IR-5, an authorized officer of the manufacturer of a body armor model must declare the warranty period for the model and certify that the manufacturer: (1) reasonably believes the armor model will maintain its ballistic performance (consistent with its originally declared threat level) over its declared warranty period, (2) has objective evidence to support that belief, and (3) agrees to provide that evidence to NIJ promptly on demand. Information on declared warranty periods will be included in any NIJ list of compliant models.

Sincerely,

A handwritten signature in black ink that reads "John Morgan". The signature is written in a cursive style with a large initial "J" and "M".

John Morgan  
Assistant Director  
Office of Science and Technology  
National Institute of Justice



U.S. Department of Justice

Office of Justice Programs

*National Institute of Justice*

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Washington, D.C. 20530

June 15, 2006

Stephen G. Giordanella  
CEO  
Protective Products International  
530 Sawgrass Corporate Parkway  
Sunrise, FL 33325

**Notice of Compliance with NIJ 2005 Interim Requirements**

Body Armor Model: FH-III A                      Level: III A

Manufacturer: Protective Products International

Warranty Period: 5 Years

Dear Mr. Giordanella:

We have completed our evaluation of the samples of the body armor model described above ("the Body Armor Model") submitted to NIJ's Voluntary Body Armor Compliance Testing Program. We are pleased to inform you that the Body Armor Model satisfies the requirements of NIJ Standard-0101.04 as incorporated by the *National Institute of Justice (NIJ) 2005 Interim Requirements for Bullet-Resistant Body Armor*.

We also have reviewed certain documentation submitted by your company concerning the Body Armor Model. The following documents were received:

Certification as to materials identified in NIJ Body Armor Standard Advisory Notices (NIJ Form IR-1);

Certification as to materials of construction of body armor model (NIJ Form IR-2);

Certification as to labeling of armor (NIJ Form IR-3A);

Acknowledgment concerning NIJ's recent research findings, the 2005 Interim Requirements, and certain related matters (NIJ Form IR-4); and

Certification as to maintenance of ballistic performance over declared warranty period (NIJ Form IR-5).

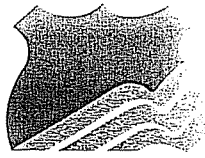


Based on the results of the armor testing and our review of the documents listed above, NIJ has determined that the Body Armor Model complies with the *NIJ 2005 Interim Requirements for Bullet-Resistant Body Armor*. The Body Armor Model will be added to the list of armor models that comply with the NIJ 2005 Interim Requirements made available at [www.justnet.org](http://www.justnet.org). Information on the declared warranty period will be included in the model listing.

Sincerely,

A handwritten signature in cursive script that reads "John Morgan". The signature is written in black ink and is positioned below the word "Sincerely,".

John Morgan  
Assistant Director  
Office of Science and Technology  
National Institute of Justice



# National Law Enforcement and Corrections Technology Center National

2277 Research Boulevard Rockville, MD 20850

800-248-2742 FAX: 301-519-5149 INTERNET: [www.nlectc.org](http://www.nlectc.org) E-MAIL: [asknlectc@nlectc.org](mailto:asknlectc@nlectc.org)

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September 9, 2005

Mr. Steve Giordanella  
Protective Products International  
530 Sawgrass Corporate Parkway  
Sunrise, FL 33323

Dear Mr. Giordanella:

We have completed our evaluation of the armor you submitted for testing in accordance with *NIJ Standard-0101.04* and are pleased to inform you that your model **HC-820-III A** (type III A), as tested, complies with that standard.

Please be advised that on August 24, 2005, NIJ issued new *NIJ 2005 Interim Requirements for Bullet-Resistant Body Armor*, which will become effective on September 26, 2005. As of that date, NIJ will no longer publish lists of models found by NIJ to be compliant with earlier NIJ requirements for ballistic resistance of new body armor (including *NIJ Standard-0101.04*). Any list or database of compliant body armor models published or sponsored by NIJ will include only models that are found by NIJ to comply with the *NIJ 2005 Interim Requirements*.

A copy of the *NIJ 2005 Interim Requirements* is attached. You may wish to pay special attention to the Transition Provision, which may apply to your situation.

Information on the Department of Justice Body Armor Safety Initiative is available at <https://vests.ojp.gov>.

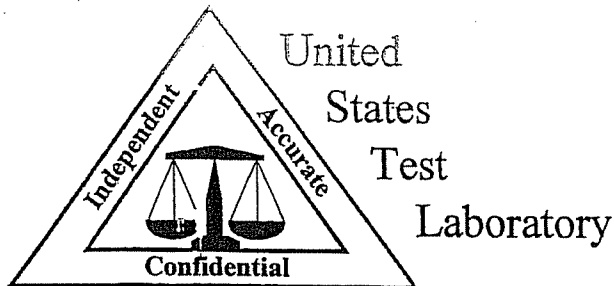
Sincerely,

Kevin M. Merlo  
Equipment Testing Technician

Lance L. Miller  
Deputy Director  
Manager, Testing Services



A PROGRAM OF THE NATIONAL INSTITUTE OF JUSTICE  
OPERATED BY ASPEN SYSTEMS CORPORATION



7447 W. 33rd St. N. 316-832-1600  
Wichita, KS. 67205 Fax 316-832-1602

Protective Products International  
Mr. Alex Cejas  
530 Sawgrass Corporate Parkway  
Sunrise, FL 33325

August 17, 2005

Dear Mr. Cejas:

In accordance with your instructions, United States Test Laboratory conducted Ballistic Resistance Test of four complete sets of body armor of **Protective Products International Model HC-820-III A, Lot 0805**, which were received on August 5, 2005. Representatives of Aspen Systems, Inc. did not witness testing. **A representative of the manufacturer did not witness the test.**

The testing, which was authorized by Aspen Systems, Inc., was conducted in accordance with the requirements of NIJ Standard-0101.04, Ballistic Resistance Testing of Police Body Armor, dated September, 2000, and all changes, verbal and written, authorized by Aspen Systems, Inc. as of the date of the testing. The results of this test are to be used to determine the compliance of the armor in conjunction with the U. S. Department of Justice's voluntary compliance testing program for armor intended for use by Law Enforcement officers. United States Test Laboratory is not empowered to issue or deny this compliance status; however, the attached data indicates that this sampling of **Model HC-820-III A, Lot 0805 did satisfy** the ballistic requirement of NIJ Standard-0101.04 prerequisites to issuance of compliance status for **threat level 3A protection.**

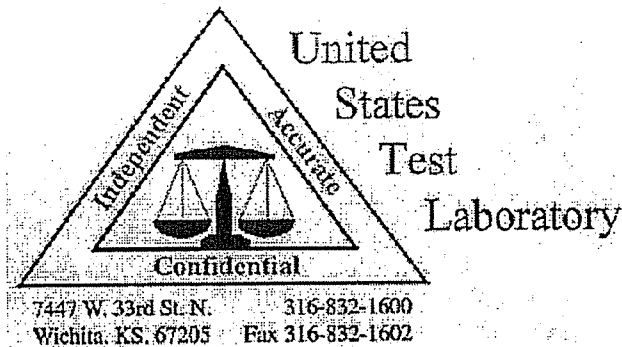
The test samples and a copy of this report are being forwarded to Aspen Systems, Inc., and you may expect their formal notification promptly. Please refer to **USTL report number 05N119.**

Sincerely,

Richard Mouser  
President

cc: Lance Miller, NLECTC/Aspen Systems, Inc.





Protective Products International  
Mr. Steve Giordanella  
1157 Sawgrass Corporate Parkway  
Sunrise, FL 33323

May 3, 2006

Dear Mr. Giordanella,

In accordance with your instructions, United States Test Laboratory conducted Ballistic Resistance Test of four complete sets of body armor of **Protective Products International Model FH-III A, Lot 0406**, which were received on May 1, 2006. Representatives of Aspen Systems, Inc. did not witness testing. **The test was not witnessed by a representative of the manufacturer.**

The testing, which was authorized by Aspen Systems, Inc., was conducted in accordance with the requirements of NIJ Standard-0101.04, Ballistic Resistance Testing of Police Body Armor, dated September, 2000, and all changes, verbal and written, authorized by Aspen Systems, Inc. as of the date of the testing. The results of this test are to be used to determine the compliance of the armor in conjunction with the U. S. Department of Justice's voluntary compliance testing program for armor intended for use by Law Enforcement officers. United States Test Laboratory is not empowered to issue or deny this compliance status; however, the attached data indicates that this sampling of **Model FH-III A, Lot 0406, did satisfy** the ballistic requirement of NIJ Standard-0101.04 prerequisites to issuance of compliance status for **threat level 3A protection.**

The test samples and a copy of this report are being forwarded to Aspen Systems, Inc., and you may expect their formal notification promptly. Please refer to **USTL report number 06N058.**

Sincerely,

Richard Mouser  
President

cc: Lance Miller, NLECTC/Aspen Systems, Inc.

# NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

NIJ Standard 0101.04  
September 2000

## Summary of Results

Armor Manufacturer: Protective Products International Armor Style: N/A Report Number: 06N058  
 Armor Model No: FH-III A NIJ Armor Type: 3A Report Date: 05/03/06

### PENETRATION AND BACKFACE SIGNATURE

Item Number	Serial Number	Panel	Weight (lbs)	No. of Piles	Caliber	Obliquity (degrees)	Req'd Shots	Velocity (ft/s)		Penetration (Y/N)	Results	
								Max.	Min.		BFS-1	BFS-2
Sample 1	115661	Front	3.20	30	9mm	0	4	1472	1409	N	25	17
		Back	3.21	30	9mm	0	4	1452	1406	N	27	17
Sample 2	115663	Front	3.17	30	9mm	0	4	1460	1404	N	26	15
		Back	3.22	30	9mm	0	4	1443	1422	N	26	24
Sample 3	115662	Front	3.19	30	.44 Mag	0	4	1433	1411	N	39	28
		Back	3.24	30	.44 Mag	0	4	1425	1413	N	37	36
Sample 4	115660	Front	3.19	30	.44 Mag	0	4	1432	1421	N	38	30
		Back	3.21	30	.44 Mag	0	4	1427	1409	N	37	35

**NOTES:**

Maximum BFS: 44 mm  
 Ballistic Material: Hybrid

Model Compliance: **YES**

**P-BFS Result**

Penetration: Pass  
 BFS: Pass

**NIJ Baseline Ballistic Limit**

Panel 1:  
 Type: 10 shots  
 Ballistic Limit: 1902 ft/s  
 Std Dev. (σ): 31 ft/s

Panel 2:  
 Type: 10 shots  
 Ballistic Limit: 1898 ft/s  
 Std Dev. (σ): 36 ft/s

**CERTIFICATION:**

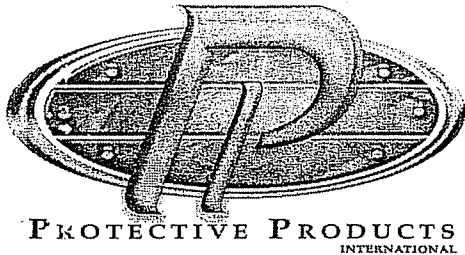
Test Data Certification: Richard W. Mouser  
 Name

Witnessed by: 0  
 Name

0  
 Representing

Signature \_\_\_\_\_

Compliance Summary



PROTECTIVE PRODUCTS  
INTERNATIONAL



Protective Products International is an ISO9001:2000 Registered Facility

## PYTHON IIIA CENTENNIAL SERIES

(in accordance with NIJ Standard 0101.04)

Dated September 2000

SOFT BODY ARMOR SPECIFICATION

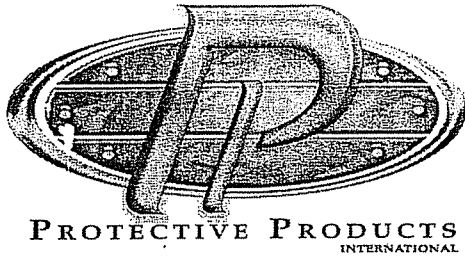
# S-CON-044A

### 1. SCOPE:

1.1. This specification fully describes the minimum requirements for furnishing concealable, bullet resistant, soft body armor. The intent is to purchase state of the art concealable body armor with optimum protection and wearability. The soft body armor alone shall provide a minimum of threat level IIIA ballistic protection as described by the National Institute of Justice's (N.I.J.) Standard 0101.04 dated September 2000. All armor provided must be in complete compliance with this specification, as well as provide compliance to the N.I.J. Standard for both labeling and ballistic performance. Only vests manufactured entirely in the United States by U.S. citizens or those that have applied for U.S. citizenship will be accepted. Those vests that have any portion of the manufacturing process done outside the United States will be rejected.

### 2. CONFIGURATION:

2.1. The vest provided shall be concealable, undershirt type bullet-resistant protection. Each vest shall be of a slip on construction and must be adjustable at 4 points in the chest, shoulder, and waist areas. Each vest is to be cut with sufficient armhole room so as to not irritate, or restrict the wearer from performing "normal" duties. The front ballistic panel shall extend toward the waist with complete uniform and duty belt far enough as not to cause "push up under the chin" when the wearer is seated in an automobile. Each model vest delivered shall provide front, back, and complete side protection. The offered vest shall provide front protection from just below the collarbone at each shoulder and have a scooped neck to allow concealment in a standard open collar uniform shirt. Side protection shall be attained from the front and back panels wrapping around the torso and meeting at the side of the body. There must be two pouches located on the upper midsection of the front carrier to accommodate a 5" x 8", a 6" x 8" or a 7"x10" trauma reduction device. Protection from the back panel will be attained from an area even with the shoulder blade and having a lesser scooped neck for maximum protection, extend toward and around the waist just above the duty belt. All corners of the vest must be rounded to avoid chaffing of the body.



PROTECTIVE PRODUCTS  
INTERNATIONAL

**PYTHON IIIA  
CENTENNIAL SERIES**

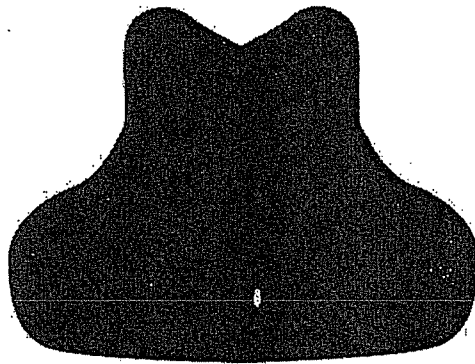
(in accordance with NIJ Standard 0101.04)

Dated September 2000

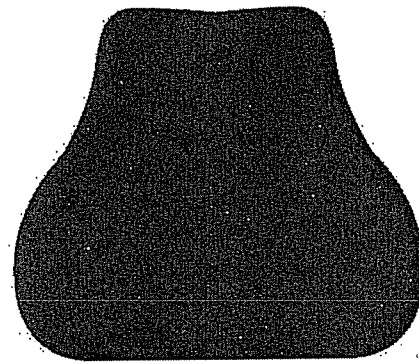
**SOFT BODY ARMOR SPECIFICATION  
# S-CON-044A**



Protective Products International is an ISO9001:2000 Registered Facility



2.2. Front



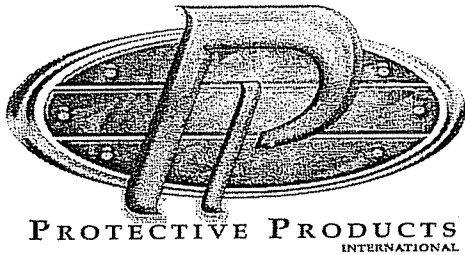
Back

2.3 The delivered vest shall be available in both male and female versions. Each version shall be designed to assure optimum fit for the gender for which it is intended.

**3. OUTER SHELL / CARRIER:**

3.1. Each individual piece of soft body armor must be provided with a removable cover in order to allow the removal of the ballistic components when laundering the outer shell or carrier. Each front and back vest carrier shall be pocket shaped to securely retain the ballistic panels. The carrier shall have a concealed 12" long zipper closure on the outside of the front of the carrier for easy insertion and removal of the ballistic panels. The outer carrier fabric shall be Supplex. The body side shall be made of moisture – wicking microfilament with a brushed suede finish for comfort and durability. The straps shall be completely removable and constructed of woven elastic for the ultimate in ergonomic comfort. The closure system shall be configured in a 4-point adjustable design.





PROTECTIVE PRODUCTS  
INTERNATIONAL



Protective Products International is an ISO9001:2000 Registered Facility

**PYTHON IIIA  
CENTENNIAL SERIES**

(in accordance with NIJ Standard 0101.04)

Dated September 2000

**SOFT BODY ARMOR SPECIFICATION  
# S-CON-044A**

**4. BALLISTIC PANEL CONSTRUCTION**

4.1. The ballistic panels shall be constructed of a matrix of ArmorLite™ Aramid manufactured by Twaron High Performance Fabrics, specially woven and treated by Lincoln Fabrics and Goldflex High Performance Shield Materials by Honeywell, and have no less than 8 layers of ArmorLite™ Aramid quilted in a 1" diamond pattern for multiple hit capability and 20 layers of Goldflex. The department has selected these materials; any bid that represents products manufactured from other materials shall be rejected.

4.1.1. It is the intent of the agency to procure the lightest weight Level IIIA armor available in relation to aerial density, therefore, a vest section of 12"x12" must not exceed 18.5 oz. (1.16 lb.) per square foot

**5. BALLISTIC PANEL COVER MATERIAL**

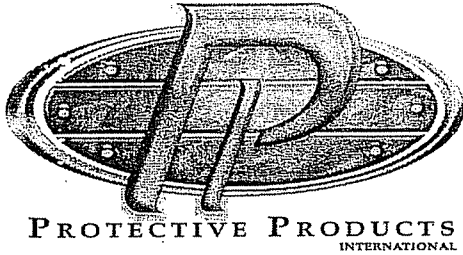
5.1. Each ballistic panel shall be covered in 100% nylon Supplex™ treated for fabric protection and water repellency. The material must be breathable in order not to trap moisture in its vapor form. The material must also be stain and mildew resistant. Construction must be of a 2-ply, 70 denier weight.

**6. BALLISTIC PANEL PERFORMANCE**

6.1. Each bidder must submit V-50 reports for the vest being offered. The V-50 must be performed in accordance with MIL-STD-662E using NIJ 0101.04 test rounds. The test must be performed on clay backing by an independent testing facility approved by the NIJ. The purpose of the test is to establish a "benchmark" V-50 and assure the quality of the combined ballistic materials lot by lot. Subsequent test results must remain within +/- 6%, the normal statistical variation for V-50 testing and remain within these limits for the five year service life of the vest.

**7. COOL PLUS SYSTEM**

7.1. The optional Original CoolPlus™ system used in Protective Products' bullet resistant vest models, consists of special gel Pacs, 7" long x 7 1/2" high x 1/2" thick, weighs 14 oz. each, contained in pockets in the front and back of the torso. Designed to particularly address the problem of heat stress, this revolutionary technology cools body temperature while allowing normal blood flow. The body's circulatory system carries body heat to the skin's surface, where it is absorbed by the Original CoolPlus™ Pacs. By using the Pacs in conjunction with the ballistic material which acts as insulation, the cooling effect may be maintained for



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(in accordance with NIJ Standard 0101.04)

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three to four (3-4) hours. As an added benefit, the Pacs can be heated and placed in the pockets to warm the body in cold weather conditions. Original CoolPlus™ Pacs have also been shown to reduce blunt trauma effects by up to 50%.

**8. SIZING:**

8.1. Sizes provided must be consistent with established garment industry standards. It is required that the successful vendor offer custom sizes to fit each individual officer. Sizes offered shall accommodate all personnel such that when in the seated position the bottom edge of the vest must clear the officer's duty belt. Due to this agency's requirements for consistent fit among the various shapes offered to its personnel, each individual vest will be custom fit based on the measurements provided by the agency. For extreme cases where the measurements fall outside the norm (eg. XXL and larger), custom adjustments will be made, but surcharges may apply.

**9. COLOR:**

9.1. Each vest's removable carrier/outer cover color shall be the indicated by the agency.

**10. OTHER MATERIALS:**

10.1. All materials shall be new, unused, and without flaws which adversely affect appearance, durability and function.

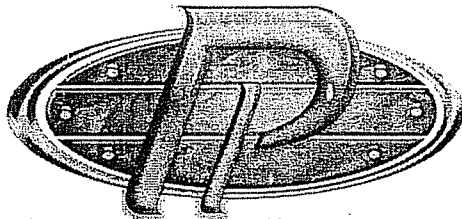
10.1.1. **Thread** - The thread for all stitching shall be nylon, conforming to MIL-T-43548, and be compatible with the carrier fabric specified above. Size is to be appropriate for the expected usage, and shall not shrink during cleaning so as not to cause "puckering of the materials".

10.1.2. **Hook & Loop Fasteners** - Plastic fastener tape of the hook and loop type shall be used. Widths of 5/8", 2", 4", and 6" may be used in the construction of the vests.

10.1.3. **Webbing/Elastic** - The woven elastic webbing for the 4 adjustable straps shall be 2", 4", or 6" in width.

**11. VEST IDENTIFICATION LABELS:**

11.1. Vests shall be labeled in accordance with N.I.J. standard 0101.04. The label material shall be suitable to assure that the label itself shall withstand wear and/or laundering. The label shall remain readable during the guaranteed life of the outer shell and ballistic panels.



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**PYTHON IIIA  
CENTENNIAL SERIES**

(in accordance with NIJ Standard 0101.04)

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**SOFT BODY ARMOR SPECIFICATION**

# S-CON-044A



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**12. LEVEL OF BALLISTIC PROTECTION:**

12.1. Each garment provided under this document shall provide **Type IIIA** ballistic impact protection against both penetration and serious bodily injury as defined by NIJ Standard 0101.04. Each garment submitted shall be approved by the NIJ Technology Assessment Program Information Center.

**13. VENDOR QUALITY ASSURANCE PROGRAM:**

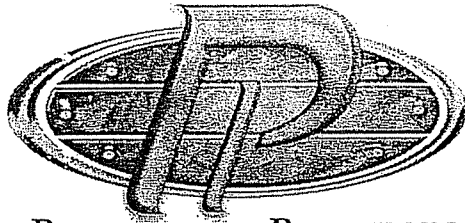
13.1. Successful manufacturer shall maintain a quality control system in accordance with ISO9001:2000 standards. Proof of registration is required. The quality assurance program must insure appropriate levels of quality throughout all areas of contract performance. This program provides for the prevention and early detection of discrepancies and for timely and positive corrective action.

**14. PRODUCT LIABILITY INSURANCE:**

14.1. Upon award successful manufacturer shall provide proof of having product liability insurance in the amount of twenty million dollars prior to the date of bid opening and shall remain in effect for the duration of the contract.

**15. MINIMUM REQUIREMENTS:**

15.1. The specifications described herein shall be deemed the minimum standards acceptable by this agency. Any discrepancies or deviations from these specifications shall be furnished in a separate document, listed in order and have reference to page and paragraph. This document will be submitted with the completed bid package.



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INTERNATIONAL

**PYTHON IIIA  
CENTENNIAL SERIES**

(in accordance with NIJ Standard 0101.04)

Dated September 2000

**SOFT BODY ARMOR SPECIFICATION  
# S-CON-044A**

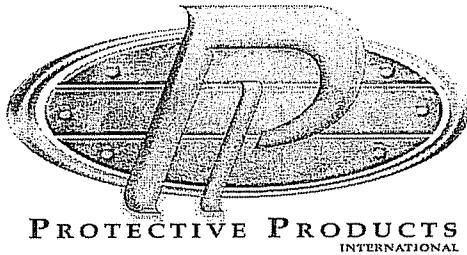


Protective Products International is an ISO9001:2000 Registered Facility

**16. TECHNICAL SPECIFICATIONS:**

<b>MANUFACTURER</b>	Protective Products International
<b>SERIES</b>	Centennial
<b>NIJ MODEL #</b>	HC-820-III A
<b>NIJ THREAT LEVEL</b>	III A
<b>BALLISTIC MATERIAL</b>	Twaron / Goldflex
<b>LAYER COUNT</b>	28
<b>WEIGHT</b>	18.5oz. /1.16 lbs. per sq ft
<b>THINNESS</b>	.22 inches [5.58 mm]
<b>V50 – 9mm</b>	1846 fps [563 m/s]
<b>RELATIVE PERFORMANCE INDEX – 9mm</b>	1591
<b>BFS Avg. – 9mm</b>	27.0 mm
<b>BFS Avg. – 44 MAG</b>	41.12 mm

Protective Products International warrants that the above-mentioned NIJ Model meets the designated threat level.



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## PYTHON IIIA (Female) CENTENNIAL SERIES

(in accordance with NIJ Standard 0101.04)

Dated September 2000

SOFT BODY ARMOR SPECIFICATION  
# S-CON-051A



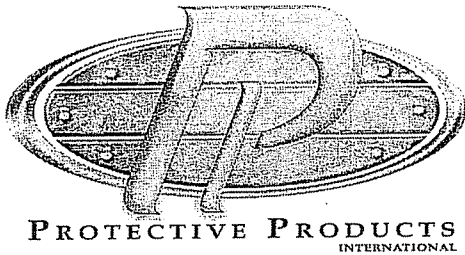
Protective Products International is an ISO9001:2000 Registered Facility

### 1. **SCOPE:**

1.1. This specification fully describes the minimum requirements for furnishing concealable, bullet resistant, soft body armor. The intent is to purchase state of the art concealable body armor with optimum protection and wearability. The soft body armor alone shall provide a minimum of threat level **IIIA** ballistic protection as described by the National Institute of Justice's (N.I.J.) Standard 0101.04 dated September 2000. All armor provided must be in complete compliance with this specification, as well as provide compliance to the N.I.J. Standard for both labeling and ballistic performance. Only vests manufactured entirely in the United States by U.S. citizens or those that have applied for U.S. citizenship will be accepted. Those vests that have any portion of the manufacturing process done outside the United States will be rejected.

### 2. **CONFIGURATION:**

2.1. The vest provided shall be concealable, undershirt type bullet-resistant protection. Each vest shall be of a slip on construction and must be adjustable at 4 points in the chest, shoulder, and waist areas. Each vest is to be cut with sufficient armhole room so as to not irritate, or restrict the wearer from performing "normal" duties. The front ballistic panel shall extend toward the waist with complete uniform and duty belt far enough as not to cause "push up under the chin" when the wearer is seated in an automobile. Each model vest delivered shall provide front, back, and complete side protection. The offered vest shall provide front protection from just below the collarbone at each shoulder and have a scooped neck to allow concealment in a standard open collar uniform shirt. Side protection shall be attained from the front and back panels wrapping around the torso and meeting at the side of the body. There must be two pouches located on the upper midsection of the front carrier to accommodate a 5" x 8", a 6" x 8" or a 7"x10" trauma reduction device. Protection from the back panel will be attained from an area even with the shoulder blade and having a lesser scooped neck for maximum protection, extend toward and around the waist just above the duty belt. All corners of the vest must be rounded to avoid chaffing of the body.



**PYTHON IIIA (Female)  
CENTENNIAL SERIES**

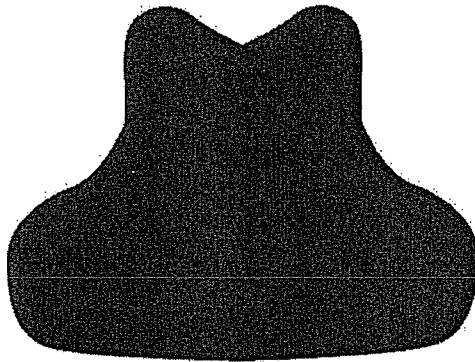
(in accordance with NIJ Standard 0101.04)

Dated September 2000



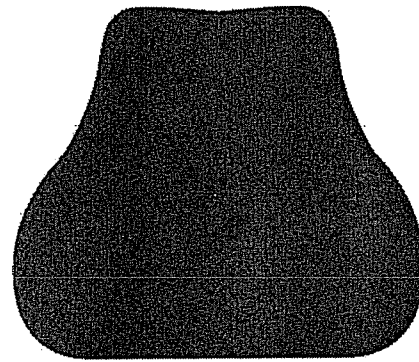
**SOFT BODY ARMOR SPECIFICATION  
# S-CON-051A**

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2.2.

Front

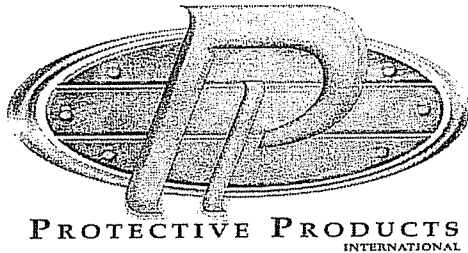


Back

2.3 The delivered vest shall be available in both male and female versions. Each version shall be designed to assure optimum fit for the gender for which it is intended.

**3. OUTER SHELL / CARRIER:**

3.1. Each individual piece of soft body armor must be provided with a removable cover in order to allow the removal of the ballistic components when laundering the outer shell or carrier. Each front and back vest carrier shall be pocket shaped to securely retain the ballistic panels. The carrier shall have a concealed 12" long zipper closure on the outside of the front of the carrier for easy insertion and removal of the ballistic panels. The outer carrier fabric shall be Supplex. The body side shall be made of moisture – wicking microfilament with a brushed suede finish for comfort and durability. The straps shall be completely removable and constructed of woven elastic for the ultimate in ergonomic comfort. The closure system shall be configured in a 4-point adjustable design.



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**PYTHON IIIA (Female)  
CENTENNIAL SERIES**

(in accordance with NIJ Standard 0101.04)

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**SOFT BODY ARMOR SPECIFICATION**  
# S-CON-051A



Protective Products International is an ISO9001:2000 Registered Facility

**4. BALLISTIC PANEL CONSTRUCTION**

4.1. The ballistic panels shall be constructed of a matrix of ArmorLite™ Aramid manufactured by Twaron High Performance Fabrics, specially woven and treated by Lincoln Fabrics, Kevlar 745 Aramid Woven Fabric, and Goldflex High Performance Shield Materials by Honeywell, and have no less than 8 layers of ArmorLite™ Aramid quilted in a 1" diamond pattern for multiple hit capability, 2 layers of Kevlar 745, and 20 layers of Goldflex. The department has selected these materials; any bid that represents products manufactured from other materials shall be rejected.

4.1.1. It is the intent of the agency to procure the lightest weight Level IIIA armor available in relation to aerial density, therefore, a vest section of 12"x12" must not exceed 21.6 oz. (1.35 lb.) per square foot

**5. BALLISTIC PANEL COVER MATERIAL**

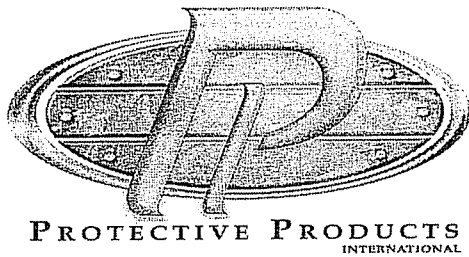
5.1. Each ballistic panel shall be covered in 100% nylon Supplex™ treated for fabric protection and water repellency. The material must be breathable in order not to trap moisture in its vapor form. The material must also be stain and mildew resistant. Construction must be of a 2-ply, 70 denier weight.

**6. BALLISTIC PANEL PERFORMANCE**

6.1. Each bidder must submit V-50 reports for the vest being offered. The V-50 must be performed in accordance with MIL-STD-662E using NIJ 0101.04 test rounds. The test must be performed on clay backing by an independent testing facility approved by the NIJ. The purpose of the test is to establish a "benchmark" V-50 and assure the quality of the combined ballistic materials lot by lot. Subsequent test results must remain within +/- 6%, the normal statistical variation for V-50 testing and remain within these limits for the five year service life of the vest.

**7. COOL PLUS SYSTEM**

7.1. The optional Original CoolPlus™ system used in Protective Products' bullet resistant vest models, consists of special gel Pacs, 7" long x 7 ½" high x ½" thick, weighs 14 oz. each, contained in pockets in the front and back of the torso. Designed to particularly address the problem of heat stress, this revolutionary technology cools body temperature while allowing normal blood flow. The body's circulatory system carries body heat to the skin's surface, where it is absorbed by the Original CoolPlus™ Pacs. By using the Pacs in conjunction



**PYTHON IIIA (Female)  
CENTENNIAL SERIES**

(in accordance with NIJ Standard 0101.04)

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**SOFT BODY ARMOR SPECIFICATION  
# S-CON-051A**



**Protective Products International is an ISO9001:2000 Registered Facility**

with the ballistic material which acts as insulation, the cooling effect may be maintained for three to four (3-4) hours. As an added benefit, the Pacs can be heated and placed in the pockets to warm the body in cold weather conditions. Original CoolPlus™ Pacs have also been shown to reduce blunt trauma effects by up to 50%.

**8. SIZING:**

8.1. Sizes provided must be consistent with established garment industry standards. It is required that the successful vendor offer custom sizes to fit each individual officer. Sizes offered shall accommodate all personnel such that when in the seated position the bottom edge of the vest must clear the officer's duty belt. Due to this agency's requirements for consistent fit among the various shapes offered to its personnel, each individual vest will be custom fit based on the measurements provided by the agency. For extreme cases where the measurements fall outside the norm (eg. XXL and larger), custom adjustments will be made, but surcharges may apply.

**9. COLOR:**

9.1. Each vest's removable carrier/outer cover color shall be the indicated by the agency.

**10. OTHER MATERIALS:**

10.1. All materials shall be new, unused, and without flaws which adversely affect appearance, durability and function.

10.1.1. **Thread** - The thread for all stitching shall be nylon, conforming to MIL-T-43548, and be compatible with the carrier fabric specified above. Size is to be appropriate for the expected usage, and shall not shrink during cleaning so as not to cause "puckering of the materials".

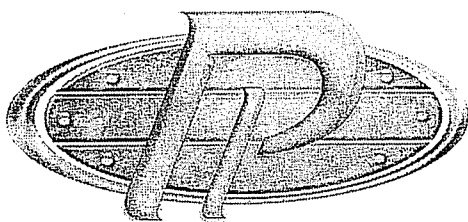
10.1.2. **Hook & Loop Fasteners** - Plastic fastener tape of the hook and loop type shall be used. Widths of 5/8", 2", 4", and 6" may be used in the construction of the vests.

10.1.3. **Webbing/Elastic** - The woven elastic webbing for the 4 adjustable straps shall be 2", 4", or 6" in width.

**11. VEST IDENTIFICATION LABELS:**

11.1. Vests shall be labeled in accordance with N.I.J. standard 0101.04. The label material shall be suitable to assure that the label itself shall withstand wear and/or laundering. The label shall remain readable during the guaranteed life of the outer shell and ballistic panels.





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**PYTHON IIIA (Female)  
CENTENNIAL SERIES**

(in accordance with NIJ Standard 0101.04)

Dated September 2000

**SOFT BODY ARMOR SPECIFICATION  
# S-CON-051A**



Protective Products International is an ISO9001:2000 Registered Facility

**12. LEVEL OF BALLISTIC PROTECTION:**

12.1. Each garment provided under this document shall provide **Type IIIA** ballistic impact protection against both penetration and serious bodily injury as defined by NIJ Standard 0101.04. Each garment submitted shall be approved by the NIJ Technology Assessment Program Information Center.

**13. VENDOR QUALITY ASSURANCE PROGRAM:**

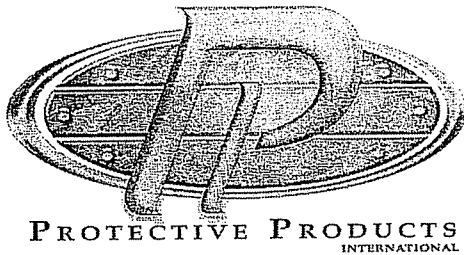
13.1. Successful manufacturer shall maintain a quality control system in accordance with ISO9001:2000 standards. Proof of registration is required. The quality assurance program must insure appropriate levels of quality throughout all areas of contract performance. This program provides for the prevention and early detection of discrepancies and for timely and positive corrective action.

**14. PRODUCT LIABILITY INSURANCE:**

14.1. Upon award successful manufacturer shall provide proof of having product liability insurance in the amount of twenty million dollars prior to the date of bid opening and shall remain in effect for the duration of the contract.

**15. MINIMUM REQUIREMENTS:**

15.1. The specifications described herein shall be deemed the minimum standards acceptable by this agency. Any discrepancies or deviations from these specifications shall be furnished in a separate document, listed in order and have reference to page and paragraph. This document will be submitted with the completed bid package.



**PYTHON IIIA (Female)  
CENTENNIAL SERIES**

(in accordance with NIJ Standard 0101.04)

Dated September 2000

**SOFT BODY ARMOR SPECIFICATION  
# S-CON-051A**



Protective Products International is an ISO9001:2000 Registered Facility

**16. TECHNICAL SPECIFICATIONS:**

<b>MANUFACTURER</b>	Protective Products International
<b>SERIES</b>	Centennial (Female)
<b>NIJ MODEL #</b>	FH-III A
<b>NIJ THREAT LEVEL</b>	III A (Female)
<b>BALLISTIC MATERIAL</b>	Kevlar 745 3000 Denier / Twaron 840 Denier 27x27 / Goldflex
<b>LAYER COUNT</b>	30 (2-plyes Kevlar, 8-plyes Twaron, 20 plyes Goldflex)
<b>WEIGHT</b>	21.6oz. /1.35 lbs. per sq ft
<b>THINNESS</b>	.33 inches [8.38 mm]
<b>V50 – 9mm</b>	1900 fps [579 m/s]
<b>RELATIVE PERFORMANCE INDEX – 9mm</b>	1591
<b>BFS Avg. – 9mm</b>	22.1 mm
<b>BFS Avg. – 44 MAG</b>	35.1 mm

Protective Products International warrants that the above-mentioned NIJ Model meets the designated threat level.

17.

### Packaging / Shipping

All items will be shipped via common ground carrier such as UPS or FedEx and tracking numbers can easily be accessed by calling our Customer Service Department at 1-800-509-9111.

All vests will be individually boxed, packaged and labeled for the individual officer or agent. All of the contents for each officer or agent will be sealed in a clear plastic bag. A label containing the officer or agent's name, vest model and threat level, and vest serial number will be sewn into the vest carrier. Every shipment will be accompanied by a shipping document. The shipping document will contain the owner of each vest, vest model, and alphanumeric vest serial number.

### Measurements and Training Plan

Under the guidance of Cory Provenzano, our Product Manager, PPI offers support to West Virginia State Police by utilizing a network of highly trained Manufacturers Representatives and Corporate Management to ensure that a flexible and workable schedule will be available for measurements. Tayler Jordan and Associates has a local representative, Mr. Carl Barisich, that will assist in the measurement process if necessary, and Mr. Provenzano of PPI has been in the industry since 1994 who will also be available for measurements. Mr. Provenzano has a thorough knowledge of the entire PPI product line, as well as exemplary measuring skills. Mr. Provenzano currently travels on a weekly basis training our domestic network of Manufacturers Representatives, Regional Managers, and Distributors on new products, specific aspects of body armor sizing and fittings, product training, care, cleaning, and maintenance coverage as well as discussion and demonstration of the capabilities and limitations of body armor protection.

Protective Products International further offers a fully trained, in-house customer service representative available to take your calls from 8:30 am through 6:00 pm, EST. All service representatives go through rigorous training and are knowledgeable, prompt, professional and courteous to make sure West Virginia State Police is properly serviced. A customer service representative will be assigned specifically for this Contract, and this person will also have a direct email available for that purpose. PPI has a convenient toll-free number, 1-800-509-9111, and can also be reached at a general email address, [www.body-armor.com](http://www.body-armor.com), whereby concerns will be forwarded to the proper party.

**MANUFACTURERS REP:**

Taylor Jordan & Associates  
Protective Products International  
Contact: Mr. Carl Barisich  
6030 Daybreak Circle  
Suite A - 150  
Clarksville, MD 21029  
Phone: 443-535-8390  
Cell: 443-506-0033  
Fax: 443-535-8390  
Email: [cbarisich@verizon.net](mailto:cbarisich@verizon.net)

**CORPORATE CONTACTS:**

Product Manager: Mr. Cory Provenzano  
590 Sawgrass Corporate Parkway  
Sunrise, FL 33325  
Phone: 1-800-509-9111  
Fax: 954-846-0555  
Cell: 754-581-2758  
Email: [coryp@body-armor.com](mailto:coryp@body-armor.com)

Product Manager: Ms. Shelby Carpenter  
590 Sawgrass Corporate Parkway  
Sunrise, FL 33325  
Phone: 1-800-509-9111  
Fax: 954-846-0555  
Email: [shelbyc@body-armor.com](mailto:shelbyc@body-armor.com)



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## Limited Warranty Info

590 Sawgrass Corporate Parkway • Sunrise, FL 33325 • 800.509.9111 • Fax 954.846.0555 • www.body-armor.com • sales@body-armor.com

### Ballistic Panels

If your ballistic panels are labeled in compliance with NIJ 2005 Interim Requirements, or meeting the performance requirements for NIJ Standard 0101.04, or NIJ Standard 0101.03, then Protective Products International Corp. warrants that for a period of five (5) years from the date of purchase, the panels will conform to the minimum requirements of the NIJ protocol for ballistic intervention during an actual confrontation at the stated threat level (if your ballistic panels are not labeled in compliance with NIJ 2005 Interim Requirements, NIJ Standard 0101.04, or NIJ Standard 0101.03, then this warranty does not apply to your panels).

***This warranty is subject to, and expressly conditioned upon, strict compliance with the following conditions:***

- The panel must not be torn, damaged, or altered in any way.
- The panel must not be subjected to abuse or misuse during service.
- The panel may only be used or placed in a cover or carrier that is furnished by Protective Products International for the specific vest which it is designed or intended for.
- The panel must not be permitted to be excessively wet.
- The panel must not be subjected to excessive heat.
- The panel must be properly stored (i.e., not in excessively hot or damp conditions).
- Use of the panel must, at all times, be in compliance with all applicable directions, instructions and recommendations furnished by Protective Products International Corp. In the event that any one or more of the foregoing conditions is breached or violated, then the warranty of conformity with NIJ standards shall be null and void and without force and effect.

### Tactical Nylon Covers

Protective Products International Corp. fully warrants nylon covers against any defects in workmanship or materials for thirty-six (36) months after the date of purchase.

### Removable Covers

Protective Products International Corp. warrants removable, machine-washable covers against defects in workmanship or materials for twenty-four (24) months after the date of purchase.

### Replacement Policies

Protective Products International Corp. will replace your vest free of charge if your vest should become damaged during an actual **ON-DUTY CONFRONTATION** with a firearm projectile or a sharp and/or blunt instrument and/or during an **ON-DUTY** automobile accident. The damaged vest and a copy of the department certification of the incident involving the damaging of the vest is required, and should be sent to Protective Products International Corp., 590 Sawgrass Corporate Parkway, Sunrise FL 33325, telephone number (954) 846-8222, as soon as they become available. Protective Products International Corp. will issue a new vest as soon as all records of the occurrence are confirmed.



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## **Vest Care & Break-in Info**

590 Sawgrass Corporate Parkway • Sunrise, FL 33325 • 800.509.9111 • Fax 954.846.0555 • www.body-armor.com • sales@body-armor.com

### **About your new vest**

#### **Usage and Wear**

To allow maximum comfort and to guard against excessive perspiration, always wear an undergarment under your Protective Products vest. The most effective results occur when a moisture wicking t-shirt is worn under the vest. Contact the Protective Products Customer Service Department for information on body armor accessories.

#### **Break-in Procedures**

Protective Products vests are designed to mold to your unique shape for optimal results. Wear your vest slightly tighter than usual during the initial 2-4 weeks of use to allow your vest to conform to the distinct curve of your body. After this short break-in period, wear your vest to suit your own comfort zone. Do not wear the vest tight. Simply take the excess slack out of the adjustable straps.

#### **Contouring your Hard Trauma Plate**

Some bend has been applied to your Trauma Plate at the factory, but must be adjusted to fit your unique shape. You can fit your plate to your chest by removing the plate from the cover and holding it to your chest near your sternum, or bending it closely to fit the contour of your body. The standard plate can be bent simply over a table's edge. If you find that your plate is uncomfortable, it has been bent too much; adjust the bend accordingly. The plate is not bent enough if its visible beneath your shirt. Remember, Protective Products body armor is designed to be concealable and should not show an outline if properly adjusted.

#### **Alterations**

Protective Products is exclusively authorized to make repairs and alterations to their vests and other Protective Products equipment. Protective Products will consider this warranty null and void if any alterations and/or repairs of any kind are made to the vest, or to any portion of the vest, by any person or entity other than Protective Products International.

### **Taking care of your vest**

#### **Nylon/Permanent Style Vest**

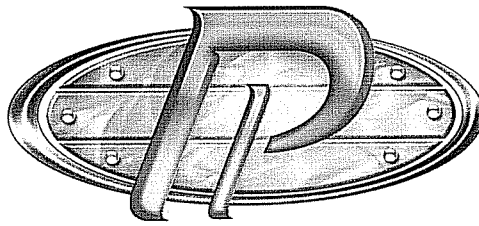
Rinsing your vest with water and washing with mild soaps will not damage your vest. Never submerge your vest underwater - rinse your vest off after any extended use. In addition to preventing the buildup of odor and other body residues, frequent rinsing will make wearing your vest more pleasant. You can rinse your vest in a conventional sink or shower; use a small amount of mild soap and hand scrub the body side of the vest and elastic straps about every fifth rinse. Always rinse soap off thoroughly and towel dry vest immediately after rinsing. Refer to care instructions on vest.

#### **Cleaning a Removable Cover**

- Important: Remove ballistic panels and trauma plates/pacs from cover and clean them separately. Follow the cleaning instructions on the panels
- Close all the velcro fasteners
- Machine wash gentle in warm water
- Tumble dry on low
- Return panels to their proper places

#### **Storage**

When not in use, store your Protective Products vest flat, and in a cool dry place.



March 7, 2007

PROTECTIVE PRODUCTS  
INTERNATIONAL

State of West Virginia  
Department of Administration  
Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130

Dear Mr. Abbott:

I have reviewed the minimum qualifications and specifications as put forth by West Virginia State Police. Please allow Protective Products International to take exception to the requirements listed below and I have included a response for these items:

•ABA XHP-III A - Protective Products International is submitting an alternate product which is our Centennial III A ballistic package.

•Male Weight and Panel Construction - Protective Products International's Centennial Level III A has an areal density of 1.16 lbs. per sq. ft. and a panel thickness of .22 inches. The ballistic package is comprised of a Twaron / Goldflex blend which allows for greater flexibility and comfort for the individual officer.

•Female Weight and Panel Construction - Protective Products International's Female Centennial Level III A has an areal density of 1.35 lbs. per sq. ft. and a panel thickness of .33 inches. The ballistic package is comprised of a Twaron / Goldflex / Kevlar blend which allows for greater flexibility and comfort for the individual officer.

•Level III A V-50:- Protective Products International's V-50 - 9mm is 1846 fps.

•Relative Performance Index - 9mm is 1591

•BFS Avg. - 9mm is 27.0mm for Protective Products International.

•BFS Avg. - 44 MAG is 41.12mm for Protective Products International.

•Female Level III A V-50:- Protective Products International's V-50 - 9mm is 1900 fps.

•Relative Performance Index - 9mm is 1591

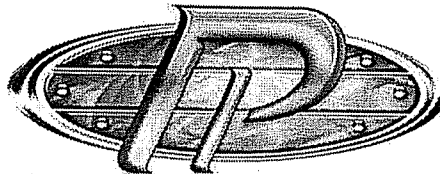
•BFS Avg. - 9mm is 22.1mm for Protective Products International.

•BFS Avg. - 44 MAG is 35.1mm for Protective Products International.

Protective Products International appreciates the opportunity to provide West Virginia State Police our proposal for body armor and I look forward to hearing from you. If you have any additional questions, please do not hesitate to contact me directly at 954-846-8222.

Sincerely,

Cory Provenzano



PROTECTIVE PRODUCTS  
INTERNATIONAL

**FULL REFERENCES**

(Further details are available upon request)

**References**

Department, IN  
219-608-1946

Office, FL  
SWAT

Department, IN  
765-654-4245

Department, IN  
Sgt. 219-762-3122

Department, IL  
Dad 217-854-3321

Department, IL  
Dor 630-553-4340

Illinois  
Deb 217-786-7196

Department, FL  
SWAve Bureau  
Sgt. B 954-602-4071

Department, FL  
SWAT  
Sgt. Dawashi 954-746-3379

Oak Force Department, IL  
Jason R 708-307-3437

**Military**

Force Protection US Navy – San Diego  
MA2 Rene Sandoval 619-524-2627

Force Protection – US Navy  
Asst Force Protection Officer for MSCCENT  
MAC Chris Johnson  
christopher.johnson2@navy.mil

**Government**

NCIS – Washington, DC  
Darlene Proctor 202-433-3279

DEA – Miami  
Darryl Gallaway 954-430-4937



# International Management Systems, Inc.

*IMS is a provider of ISO 9000 third party system registration and is accredited by the ANSI-ASQ National Accreditation Board, ANAB and hereby issues this*

## Certificate of Registration

*This certificate attests that the Quality Management System of*

### Protective Products International

530 Sawgrass Corporate Pkwy  
Sunrise, FL 33325

*Has been assessed by IMS and determined to be in conformance with the International Quality System Standard*

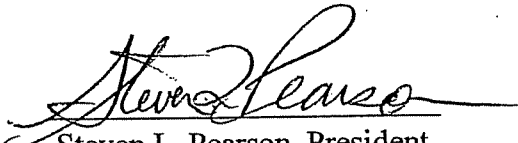
### ISO 9001:2000

*Scope of Registration:*

***The Design and Manufacture of Body Armor***

*Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2000 requirements may be obtained by consulting the organization.*



  
Steven L. Pearson, President

International Management Systems, Inc.  
5420 Bay Center Drive, Suite 200  
Tampa, FL 33609  
(813) 639-9876  
[www.imsregistrations.com](http://www.imsregistrations.com)

Certificate No: IMS-0138

Registration Date: 16 FEB 05

Expiration Date: 16 FEB 08

# ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
12/11/2006

PRODUCER Commerce Banc Ins. Services PO Box 470 1011 Centre Road, Suite 100 Wilmington, DE 19899	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
	INSURERS AFFORDING COVERAGE	NAIC #
INSURED Protective Products International, Inc. 530 Sawgrass Corporate Parkway Fort Lauderdale, FL 33325	INSURER A: <b>Hartford Insurance Group</b>	19682
	INSURER B: <b>Hartford Fire Insurance Company</b>	10172
	INSURER C: <b>Westchester Surplus Lines Insurance</b>	10172
	INSURER D:	10172
	INSURER E:	10172

**COVERAGES**

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR	INSRC	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> B/PPD Ded:10000 GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	13CESOA9027	08/24/06	03/01/07	EACH OCCURRENCE	\$1,000,000
						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$300,000
						MED EXP (Any one person)	\$10,000
						PERSONAL & ADV INJURY	\$1,000,000
						GENERAL AGGREGATE	\$2,000,000
						PRODUCTS - COMP/OP AGG	\$2,000,000
A		AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	13UENZU2194	08/24/06	03/01/07	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
						BODILY INJURY (Per person)	\$
						BODILY INJURY (Per accident)	\$
						PROPERTY DAMAGE (Per accident)	\$
		GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT	\$
						OTHER THAN AUTO ONLY: EA ACC	\$
						AGG	\$
B C		EXCESS/UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$ 10000	13HUSL8368 G22051064001	08/24/06 09/25/06	03/01/07 03/01/07	EACH OCCURRENCE	\$9,000,000
						AGGREGATE	\$9,000,000
						Each Occ	\$10,000,000
						Aggregate	\$10,000,000
							\$
B		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below OTHER	13WBNF1787	12/02/2006	03/01/2007	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER	\$500,000
						E.L. EACH ACCIDENT	\$500,000
						E.L. DISEASE - EA EMPLOYEE	\$500,000
						E.L. DISEASE - POLICY LIMIT	\$500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS  
 \*30 days notice of cancellation except 10 days for non-payment of premium\*

**CERTIFICATE HOLDER**

Proof of insurance

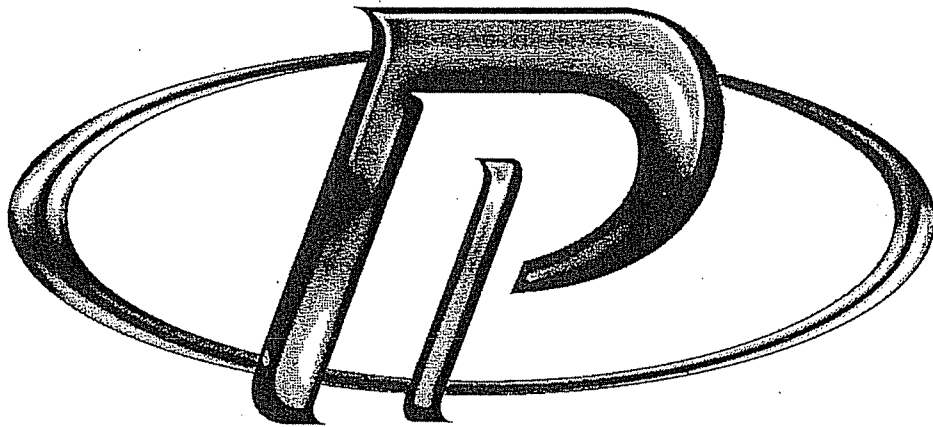
**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30\* DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

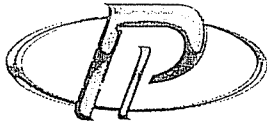
*[Signature]*

**ISO 9001:2000**  
**Quality System Manual**



PROTECTIVE PRODUCTS  
INTERNATIONAL

**530 Sawgrass Corporate Parkway**  
**Sunrise, FL 33325**



QM-01

## Quality Manual

### Introduction

Protective Products International developed and implemented a Quality Management System in order to document the company's best business practices, better satisfy the requirements and expectations of its customers and improve the overall management of the company.

The Quality Management System of Protective Products International meets the requirements of the international standard ISO 9001 (2000). This system addresses the design, development, production, installation, and servicing of the company's products.

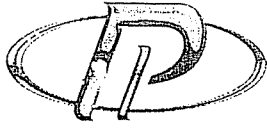
The manual is divided into eight sections that correlate to the Quality Management System sections of ISO 9001 - 2000. Each section begins with a policy statement expressing Protective Products International's obligation to implement the basic requirements of the referenced Quality Management System section. Each policy statement is followed by specific information pertaining to the procedures that describe the methods used to implement the necessary requirements.

This manual describes the Quality Management System, delineates authorities, inter relationships and responsibilities of the personnel responsible for performing within the system. The manual also provides procedures or references for all activities comprising the Quality Management System to ensure compliance to the necessary requirements of the standard.

This manual is used internally to guide the company's employees through the various requirements of the ISO standard that must be met and maintained in order to ensure customer satisfaction, continuous improvement and provide the necessary instructions that create an empowered work force.

This manual is used externally to introduce our Quality Management System to our customers and other external organizations or individuals. The manual is used to familiarize them with the controls that have been implemented and to assure them that the integrity of the Quality Management System is maintained and focused on customer satisfaction and continuous improvement.

President: 



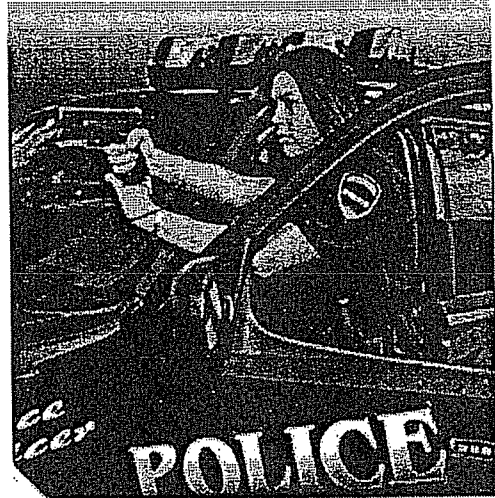
QM-01

## Quality Manual

### About Us

Started in 1994, **Protective Products International** manages its production of body armor from a Florida base. The company's owner and president, Stephen Giordanella, while fully aware of the challenge ahead, held firmly to the belief that a product offering exceptional quality, at affordable prices with reliable sales service is bound to find its niche.

**Protective Products International** has done this. The company enjoys strong support from many distributors who once carried only well-known brands. With the early introduction of the Pioneer Series, police officers experienced superior comfort in a vest which provided a true fit. The ArmorLite line soon followed in response to customer demand by offering improved vest performance at an affordable cost. More recently, with the development of Cool Plus System, law enforcement officers can enjoy extended wear of their armor in extreme hot weather conditions. **Protective Products** puts special effort into working with those agencies caught in the recent budget crunch, by offering incentives to ensure officers receive ballistic protection while doing their job.



Currently, the company continues its outreach to all security service personnel, by advertising in well-known publications. **Protective Products** also keeps pace in a very competitive market through an interactive website, which draws enormous feedback from domestic and international markets.



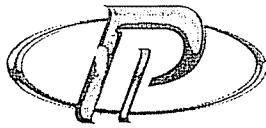
QM-01

## Quality Manual

### Quality Manual Distribution

**The Quality Manual shall be distributed as follows:**

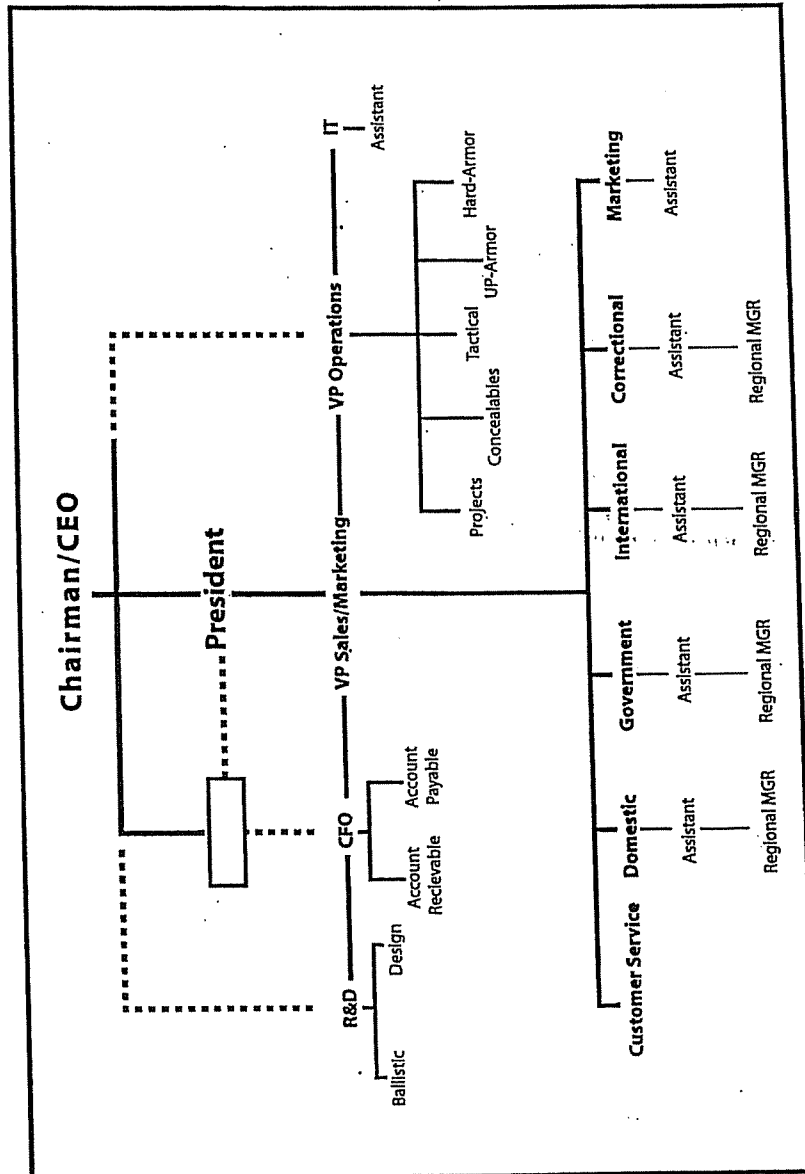
The quality manual and all system documentation will be distributed and maintained electronically on the company server. All employees that may have an impact on quality have access to this information through the computer network. Protective Products International does not utilize a paper copy distribution system. The document control coordinator will maintain a paper copy of initial document releases and all subsequent revisions.

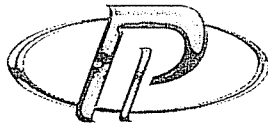


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# Quality Manual

# PPI ORGANIZATIONAL CHART





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## Quality Manual

### Section 1: Scope

#### 1.1 General

---

The quality manual outlines the policies, procedures and requirements of the Quality Management System. The system is structured to comply with the conditions set forth in the International Standard ISO 9001:2000

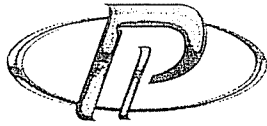
#### 1.2 Application

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Protective Products International has determined that the following requirements are not applicable to the operations at this site and are documented as exclusions:

- There are NO exclusions from the ISO 9001:2000 requirements.





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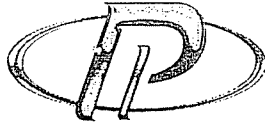
## Quality Manual

### Section 2: Normative Reference

#### 2.0 Quality Management System References

The following documents were used as reference during the preparation of the Quality Management System:

- American National Standard ANSI/ISO/ASQ Q9000-2000, Quality Management Systems - Vocabulary.
- American National Standard ANSI/ISO/ASQ Q9001-2000, Quality Management Systems – Requirements
- American National Standard ANSI/ISO/ASQ Q9004-2000, Quality Management Systems – Guidelines for performance Improvements



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## Quality Manual

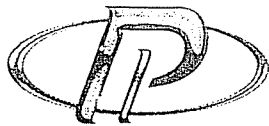
### Section 3: Definitions

#### **3.0 Quality Management System Definitions**

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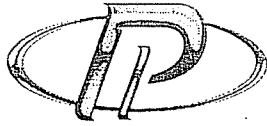
This section is for definitions unique to Protective Products International.

- Customer owned property - Any type of instrumentation, accessories, manuals, or shipping containers that belong to a customer.
- Customer supplied product - Any type of service or material supplied to be utilized in the manufacture, modification or repair of customer-owned property.
- Product – The end item result of meeting all contract and/or order terms and conditions. (eg: manufactured goods, merchandise, etc.)
- Quality Records – Documentation of those activities wherein records of said activities must be maintained will be specified in the procedure or work instruction level documents, as applicable



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Quality Manual

# **Section 4: General Requirements**



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## Quality Manual

### 4.1 General requirements

---

Protective Products International has established, documented and implemented a Quality Management System (QMS) in accordance with the requirements of ISO 9001:2000. The system is maintained and continually improved through the use of the quality policy, quality objectives, audit results, analysis of data, corrective and preventive action and management review.

To design and implement the QMS Protective Products International has:

- Identified the processes needed for the QMS and their application throughout the organization and documented them on the Process Flow Diagram at the end of this section of the Quality Manual
- Determined the sequence and interaction of these processes, and illustrated them on the Process Flow Diagram
- Determined criteria and methods needed to ensure that the operation and control of the processes are effective, and documented them in quality plans, work instructions and the Measuring, Monitoring and Analysis Table
- Ensured the continuing availability of resources and information necessary to achieve planned results and continual improvement of these processes
- Established processes to measure, monitor, and control sub-contractors.
- Established systems to monitor, measure and analyze these processes, and
- Established processes to identify and implement actions necessary to achieve planned results and continual improvement of these processes

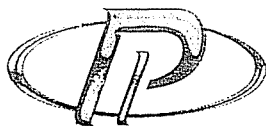
### 4.2 Documentation Requirements

---

#### 4.2.1 General

The QMS documentation includes:

- A documented Quality Policy
- This Quality Manual
- Documented Procedures
- Documents identified as needed for the effective planning, operation and control of our processes, and
- Quality Records



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## Quality Manual

### 4.2.2 Quality manual

This Quality Manual has been prepared to describe Protective Products International's QMS. The scope and permissible exclusions of the QMS are described in section one of this manual. Each section of the manual references documented QMS procedures relating to the requirements outlined in that section. The Process Flow Diagram at the end of section 4 provides a description of the interaction between the processes of the QMS system.

### 4.2.3 Control of documents

All of the QMS documents are controlled according to the Document Control Procedure (P-423). This procedure defines the process for:

- Approving documents for adequacy prior to issue
- Reviewing and updating as necessary and re-approving documents
- Ensuring that changes and current revision status of documents are identified
- Ensuring that relevant versions of applicable documents are available at points of use
- Ensuring that documents remain legible and readily identifiable
- Ensuring that documents of external origin are identified and their distribution controlled
- Verifying that documents of external origin are periodically verified for currency and
- Preventing the unintended use of obsolete documents and to apply suitable identification to them if they are retained for any purpose

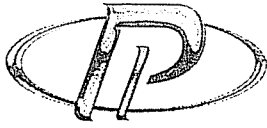
### 4.2.4 Control of quality records

Quality records are maintained to provide evidence of conformity to requirements and of the effective operation of the QMS. The records are maintained according to the Control of Quality Records Procedure (P-424). This procedure requires that quality records remain legible, readily identifiable and retrievable. The procedure defines the controls needed for identification, storage, protection, retrieval, retention time and disposition of quality records.

### Related Procedures

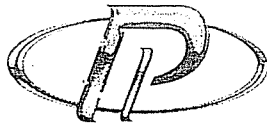
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Document Control	P-423
Control of Quality Records	P-424



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Quality Manual

# **Section 5: Management Responsibility**



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## Quality Manual

### 5.1 Management commitment

---

Management has been actively involved in implementing the quality management system (QMS). It has provided the vision and strategic direction for the growth of the QMS, and established quality objectives and the quality policy.

To continue to provide leadership and show commitment to the improvement of the QMS, management will do the following.

- Communicate the importance of meeting customer, statutory, and regulatory requirements.
- Establish quality objectives
- Establish the quality policy.
- Conduct quarterly management reviews.
- Ensure the availability of resources.

### 5.2 Customer focus

---

Protective Products International strives to identify current and future customer needs, to meet customer requirements and exceed customer expectations.

Management ensures that customer requirements are understood and met, by requiring compliance with documented customer communication procedures. Customer requirements are determined, converted into internal requirements, and communicated to the appropriate people in our organization (P-720).

### 5.3 Quality policy

---

Management ensures that the quality policy is communicated to all employees. It is included in new employee training and training on the QMS. It is posted in prominent places throughout the facility to maintain high standards within our organization.

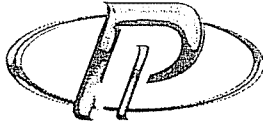
Management reviews the quality policy at each management review meeting to determine the policy's continuing suitability for our organization. The Quality Policy is documented in P-501, Quality Policy.

### 5.4 Planning

---

#### 5.4.1 Quality objectives

Quality objectives are established to support our organization's efforts in achieving our quality policy and reviewed annually for suitability. Objectives have been established as follows:



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## Quality Manual

- Zero shipped workmanship defects by the end of fiscal year 2004-2005
- Increase company revenues by division
- Achieve a minimum of 98% order entry accuracy for concealable vest orders and 75% order entry accuracy for tactical vest orders
- Increase company image by qualified representation throughout the USA and the rest of the world by 300% in fiscal year 2004/2005 over previous fiscal year
- Maintain employee retention rate at 95%

Quality objectives are measurable, and reviewed against performance goals at each management review meeting.

### 5.4.2 Quality management system planning

The quality system has been planned and implemented to meet our quality objectives and the requirements of 4.1 of the ISO 9001 standard. Quality planning takes place as changes that affect the quality system are planned and implemented.

## 5.5 Responsibility, authority and communication

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### 5.5.1 Responsibility and authority

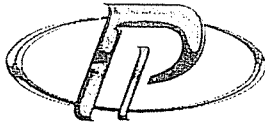
An organizational chart has been established to show the interrelation of personnel in the organization. Job descriptions define the responsibilities and authorities of each of the positions on the organizational chart. Job descriptions and the organizational chart are reviewed and approved by top management for adequacy. These documents are available throughout the organization to help employees understand responsibilities and authorities. An organizational chart is located on page 5 of this manual.

### 5.5.2 Management representative

The Operations Manager has been appointed by Management as management representative. The company has appointed the Controller as deputy. As management representative, they have the following responsibility and authority:

- Ensure that processes needed for the quality management system are established and implemented.
- Report to top management on the performance of the quality management system, and note needed improvements.
- Promote awareness of customer requirements throughout the organization.
- Act as a liaison with external parties such as customers or auditors on matters relating to the QMS.





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## Quality Manual

### 5.5.3 Internal communication

Processes are established for communication within the organization. Methods of communicating the effectiveness of the QMS include department and management meetings, management review, circulation of minutes of management review meetings, Internal Audit Closing meetings, and other routine business communication.

## 5.6 Management review

---

### 5.6.1 General

Management reviews the QMS quarterly at management review meetings. This review assesses the continuing QMS suitability, adequacy and effectiveness, identifying opportunities for improvement and needed changes. Records are maintained for each management review meeting.

### 5.6.2 Review input

Assessment of the QMS is based on a review of information inputs to management review. These inputs include the following:

- Results of audits
- Customer feedback
- Process performance and product conformity
- Company level quality data
- Status of preventive and corrective actions
- Follow-up actions from previous management reviews
- Planned changes that could affect the quality management system
- Recommendations for improvement

### 5.6.3 Review output

During these review meetings, management will identify appropriate actions to be taken regarding the following issues:

- Improvement of the effectiveness of the quality management system and its processes
- Improvement of product related to customer requirements
- Resource needs

Responsibilities for required actions are assigned to members of the management review team. Any decisions made during the meeting, assigned actions, and their due dates are recorded in the minutes of management review.

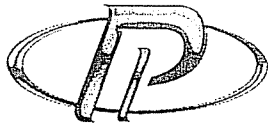


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Quality Manual

**Related Procedures:**

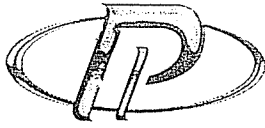
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Quality Policy	P-501
Customer Related Processes	P-720
Management Review	P-500
Planning of Product Realization Processes	P-710



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Quality Manual

# **Section 6: Resource Management**



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## Quality Manual

### 6.1 Provision of resources

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Protective Products International has implemented a Quality Management System that complies with the ISO 9001 2000 standard. This implementation was achieved with management commitment and with sufficient resources for the implementation. To effectively maintain and continually improve the system, management determines and provides necessary resources.

### 6.2 Human resources

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#### 6.2.1 General

To ensure competence of our personnel, job descriptions have been prepared identifying the qualifications required for each position that affects product quality. Qualifications include requirements for education, skills and experience. Appropriate qualifications, along with required training, provide the competence required for each position.

#### 6.2.2 Competence, awareness and training

Qualifications are reviewed upon hire, when an employee changes positions or the requirements for a position change. Human resources maintain records of employee qualifications. If any differences between the employee's qualifications and the requirements for the job are found, training or other action is taken to provide the employee with the necessary competence for the job. The results are then evaluated to determine if they were effective. Training and evaluation are conducted according to the Training procedure. (P-662)

All employees are trained on the relevance and importance of their activities and how they contribute to the achievement of the quality objectives.

### 6.3 Infrastructure

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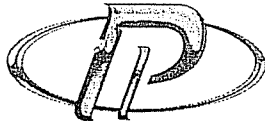
To meet quality objectives and product requirements Protective Products International has determined the infrastructure needed (P-630). The infrastructure has been provided, and includes buildings, workspace, utilities, cutting and sewing equipment, and supporting services. As new infrastructure requirements arise, they will be documented in quality plans. Existing infrastructure is maintained to ensure product conformity. Maintenance requirements are documented in:

- Maintenance Card File

### 6.4 Work Environment

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A work environment suitable for achieving product conformance is maintained. Requirements are determined during quality planning and documented in the



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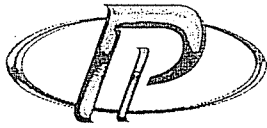
## Quality Manual

quality plan. The work environment is managed for continuing suitability. Data from the quality system is evaluated to determine if the work environment is sufficient for achieving product conformance, or if preventive or corrective action related to the work environment is required.

### Related Documents

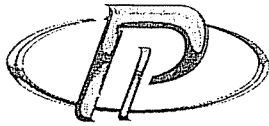
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Competence, Awareness and Training	P-622
Infrastructure	P-630



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# Section 7: Product Realization



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### 7.1 Planning of product realization

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Quality planning is required before new products or processes are implemented. The quality planning may take place during review and acceptance of a customer order, as a design project, or according to the Planning of Product Realization procedure (P-710). During this planning, management or assigned personnel identify:

- The quality objectives and requirements for the product,
- Processes, documentation and resources required
- Verification, validation, monitoring, inspection and test requirements, and
- Criteria for product acceptance

The output of quality planning includes documented quality plans, processes, procedures and design outputs.

### 7.2 Customer-related processes

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#### 7.2.1 Determination of requirements related to the product

Protective Products International determines customer requirements before acceptance of an order. Customer requirements include those:

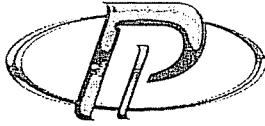
- Requested by the customer
- Required for delivery and post-delivery activities
- Not stated by the customer but necessary for specified use or known and intended use
- Statutory and regulatory requirements related to the product
- Additional requirements determined by Protective Products International

Customer requirements are determined according to the Customer Related Processes Procedure. (P-720)

#### 7.2.2 Review of requirements related to the product

Protective Products International has a process in place for the review of requirements related to the product (P-720). The review is conducted before the order is accepted. The process ensures that:

- Product requirements are defined



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### 7.3.2 Design and development inputs

Inputs relating to product requirements are determined and documented according to the Design and Development procedure (P-730). All inputs are reviewed for adequacy and completeness, and to resolve any ambiguous inputs. Inputs include:

- Functional and performance requirements
- Applicable statutory and regulatory requirements
- Where applicable, information derived from previous similar designs
- Other requirements essential for design and development

### 7.3.3 Design and development outputs

Outputs of design and development are documented according to the Design and Development Procedure (P-730). They are documented in a format that enables verification against the inputs, and are approved prior to release. Outputs:

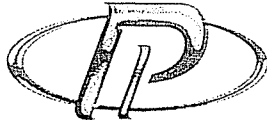
- Meet the input requirements
- Provide appropriate information for purchasing, production and for service provision
- Contain or reference product acceptance criteria
- Specify the characteristics of the product that are essential for its safe and proper use.

### 7.3.4 Design and development review

The design plan specifies suitable stages of the project to conduct design and development review. Reviews take place according to the design and development procedure; results of design review are recorded in minutes of the design review meetings which are maintained as a quality record. Design reviews:

- Evaluate the results of design and development activities and determine if they fulfill requirements
- Identify any problems and propose necessary actions
- Include representatives of functions concerned with the design and development stage being reviewed





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### 7.3.5 Design and development verification

Design verification is planned and performed to ensure that the design and development outputs have satisfied the design and development input requirements. Records of the results of the verification and any necessary actions are maintained according to the Design and Development procedure (P-730).

### 7.3.6 Design and development validation

Design and development validation is performed according to the design plan to ensure that the resulting product is capable of fulfilling the requirements for the specified or known intended use or application. Validation is completed prior to delivery whenever practicable. Records of the validation activities are maintained according to the design and development procedure.

### 7.3.7 Control of design and development changes

The design and development procedure defines a process for identifying, recording, verifying, validating and approving design changes. The review of design and development changes includes an evaluation of the effect of the changes on constituent parts and delivered product. Records are maintained to show the results of the review and any necessary actions identified during the review.

## 7.4 Purchasing

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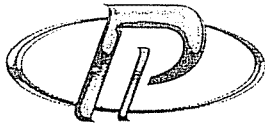
### 7.4.1 Purchasing process

A documented procedure (P-740) is followed to ensure that purchased product and services conform to the specified purchase requirements. The procedure outlines the extent of control required for suppliers. Suppliers, including sub-contractors, are evaluated and selected based on their ability to supply product and services in accordance with requirements as outlined in the procedure. Criteria for selection, evaluation and re-evaluation are documented in the procedure. Records of the evaluation and any necessary actions are maintained as quality records.

### 7.4.2 Purchasing information

Purchasing information describes the product and/or service to be purchased, including where appropriate:

- Requirements for approval of product, processes and equipment
- Requirements for qualification of personnel
- Quality management system requirements



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The purchasing documents are reviewed to ensure the adequacy of requirements before orders are placed with the supplier.

### 7.4.3 Verification of purchased product and services

The Purchasing procedure (P-740) describes the process used to verify that purchased product and services meet specified purchase requirements. If Protective Products International or the customer will perform verification at the supplier's premises, the verification arrangements and method of product release are documented in the purchasing information.

All materials being used for fabrication are to be inspected and tested, where specified, prior to their incorporation into the final products. Ballistic materials shall be tested, as specified, visually for production shortcomings, and ballistically tested. Please note, Quality Control will ensure that lots of ballistic material delivered to the factory shall be accompanied by their manufacturer's quality Certificate of Conformance.

## 7.5 Production and Service Provision

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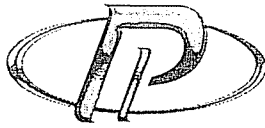
### 7.5.1 Control of production and service provision

Protective Products International plans and carries out production and service provision under controlled conditions according to documented procedure (P-750). Controlled conditions include, as applicable:

- The availability of information that describes the characteristics of the product
- The availability of work instructions
- The use of suitable equipment
- The availability and use of monitoring and measuring devices
- The implementation of monitoring and measurement
- The implementation of release, delivery and post-delivery activities

### 7.5.2 Validation of processes for production and service provision

Protective Products International validates any processes for production and service provision where the resulting output cannot be verified by subsequent monitoring or measurement. This includes any processes where deficiencies become apparent only after the product is in use or the service has been delivered. Validation demonstrates the ability of these processes to achieve planned results.



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Protective Products International has documented the process for validation including:

- Defined criteria for review and approval of the processes
- Approval of equipment and qualification of personnel
- Use of specific methods and procedures
- Requirements for records
- Revalidation

### 7.5.3 Identification and traceability

Protective Products International identifies the product throughout product realization according to the Identification and Traceability procedure (P-753). Product is identified with respect to monitoring and measurement requirements.

Protective Products International controls and records the unique identification of the product wherever traceability is a specified requirement. Protective Products International has in place a four-way ability to track serial numbers.

### 7.5.4 Customer property

Protective Products International exercises care with customer property while it is under the organization's control or being used. A procedure (P-754) outlines the identification, verification, protection and safeguarding of customer property provided for use. If any customer property is lost, damaged or otherwise found to be unsuitable for use, this is reported to the customer and records maintained.

### 7.5.5 Preservation of product

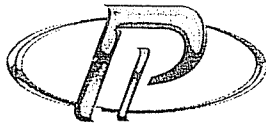
Protective Products International preserves the conformity of product during internal processing and delivery to the intended destination per procedure (P-755). This preservation includes identification, handling, packaging, storage and protection. Preservation also applies to the constituent parts of a product.

## 7.6 Control of monitoring and measuring devices

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Protective Products International has determined the monitoring and measurement to be undertaken and the monitoring and measuring devices needed to provide evidence of conformity of product to determined requirements. A documented procedure (P-760) outlines the process used to ensure that monitoring and measurement to be carried out are carried out in a manner that is consistent with the monitoring and measurement requirements.

Where necessary to ensure valid results, measuring equipment is:



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- Protected from damage and deterioration during handling, maintenance and storage.
- Visually inspected periodically to ensure no damage has occurred and devices are legible.

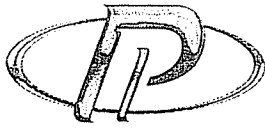
In addition, Quality Control assesses and records the validity of the previous measuring results when the equipment is found not to conform to requirements. Protective Products International takes appropriate action on the equipment and any product affected. Records of the results of calibration and verification are maintained

When used in the monitoring and measurement of specified requirements, the ability of computer software to satisfy the intended application is confirmed. This shall be undertaken prior to initial use and reconfirmed as necessary.

### Related Documents

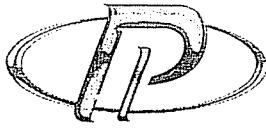
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Planning of Product Realization Processes	P-710
Customer Related Processes	P-720
Design and Development	P-730
Purchasing	P-740
Control of Production and Service Provision	P-750
Identification and Traceability	P-753
Customer Property	P-754
Preservation of Product	P-755
Control of Monitoring and Measuring Devices	P-760



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# **Section 8: Measurement, Analysis and Improvement**



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### 8.1 General

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Protective Products International has plans and implements the monitoring, measurement, analysis and improvement processes as needed

- To demonstrate conformity of the product,
- To ensure conformity of the quality management system, and
- To continually improve the effectiveness of the quality management system.

These processes are identified in documented procedures and include determination of applicable methods, including statistical techniques, and the extent of their use.

### 8.2 Monitoring and Measurement

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#### 8.2.1 Customer Satisfaction

As one of the measurements of the performance of the quality management system, Protective Products International monitors information relating to customer perception as to whether the organization has fulfilled customer requirements. The method for obtaining and using this information is identified in the Customer Related Processes (P-720) and the Management Responsibility procedures (P-500).

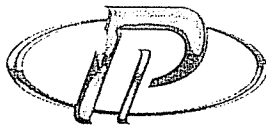
#### 8.2.2 Internal Audit

Protective Products International conducts internal audits at planned intervals to determine whether the quality management system

- Conforms to the planned arrangements (see 7.1), to the requirements of this International Standard and to the quality management system requirements established by the organization
- Is effectively implemented and maintained.

An audit program has been designed and implemented and identifies an audit schedule based on the importance of the areas to be audited, as well as the results of previous audits. The audit criteria, scope, frequency, methods, responsibilities and requirements for planning and conducting audits, and for reporting and maintaining results, are defined and documented in the Internal Audit procedure (P-822).

The management responsible for the area being audited is responsible for ensuring that actions are taken without undue delay to eliminate detected nonconformities and their causes. Follow-up activities include the verification of the actions taken and the reporting of verification results.



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### 8.2.3 Monitoring and measurement of processes

Protective Products International applies suitable methods for monitoring and, where applicable, measurement of the quality management system processes. These methods demonstrate the ability of the processes to achieve planned results. When planned results are not achieved, correction and corrective action is taken, as appropriate, to ensure conformity of the product. The process for identifying and carrying out the required monitoring and measuring of processes is documented in the Monitoring, Measuring and Analysis of Product Realization Processes (P-824) and Management Responsibility procedures (P-500).

### 8.2.4 Monitoring and measurement of product

Protective Products International monitors and measures the characteristics of the product to verify that product requirements are fulfilled. This is carried out at appropriate stages of the product realization process identified in Monitoring, Measuring and Analysis of Product Realization Processes (P-824).

Evidence of conformity with the acceptance criteria is maintained. Records indicate the person authorizing release of product. Product release and service delivery does not proceed until all the planned arrangements have been satisfactorily completed, unless otherwise approved by a relevant authority, and where applicable by the customer.

## 8.3 Control of Nonconforming Product

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Protective Products International ensures that product which does not conform to product requirements is identified and controlled to prevent its unintended use or delivery. The controls and related responsibilities and authorities for dealing with nonconforming product are defined in the Control of Nonconforming Product procedure (P-830).

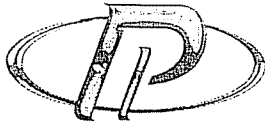
## 8.4 Analysis of Data

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Protective Products International determines, collects and analyses appropriate data to demonstrate the suitability and effectiveness of the quality management system and to evaluate where continual improvement of the quality management system can be made. The process for determining, collecting and analyzing this data is defined in the Management Responsibility procedure (P-500) and in procedure (P-840) Statistical Techniques. Appropriate data includes data generated as a result of monitoring and measurement and from other relevant sources.

The analysis of data provides information relating to

- Customer satisfaction
- Conformance to product requirements



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- Characteristics and trends of processes and products including opportunities for preventive action
- Suppliers

### 8.4.1 Root cause analysis

Protective Products International has determined that the use of root cause analysis is necessary in order to fully understand the reasons that cause non-conformities and has developed procedure P-841, Root Cause Analysis to ensure that proper analysis of non-conformities is performed. The Operations Manager is responsible for ensuring that RCA is performed in a timely and consistent manner and appropriate records are maintained.

## 8.5 Improvement

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### 8.5.1 Continual improvement

Protective Products International continually improves the effectiveness of the quality management system through the use of the quality policy, quality objectives, audit results, analysis of data, corrective and preventive actions and management review.

### 8.5.2 Corrective action

Protective Products International takes action to eliminate the cause of nonconformities in order to prevent recurrence. Corrective actions are appropriate to the effects of the nonconformities encountered.

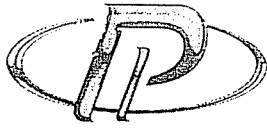
A documented procedure (P-852) defines requirements for

- Reviewing nonconformities (including customer complaints),
- Determining the causes of nonconformities,
- Evaluating the need for action to ensure that nonconformities do not recur,
- Determining and implementing action needed,
- Records of the results of action taken (see 4.2.4), and
- Reviewing corrective action taken.

### 8.5.3 Preventive action

Protective Products International determines action to eliminate the causes of potential nonconformities in order to prevent their occurrence.





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Preventive actions are appropriate to the effects of the potential problems.

A documented procedure (P-853) defines requirements for:

- Determining potential nonconformities and their causes
- Evaluating the need for action to prevent occurrence of nonconformities
- Determining and implementing action needed
- Records of results of action taken
- Reviewing preventive action taken

### Related Documents

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Management Responsibility	P-500
Customer Related Processes	P-720
Monitoring, Measuring and Analysis of Customer Satisfaction	P-821
Internal Audits	P-822
Monitoring & Measuring of Product & Realization Processes	P-824
Control of Nonconforming Product	P-830
Statistical Techniques	P-840
Root Cause Analysis	P-841
Corrective Action	P-852
Preventive Action	P-853