

Pittsburg County, Oklahoma  
**COUNTY PURCHASING OFFICE**  
 Pittsburg County Court House  
 McAlester, Oklahoma  
 Phone: (918) 423-4934

**INVITATION TO BID**

PLEASE REVIEW TERMS AND CONDITIONS ON REVERSE SIDE RELATING TO SUBMISSION OF THIS BID.

Notarized Affidavit completions and signature required on reverse side.

DATE ISSUED	21-May-18
PAGE 1 OF _____	

BID NUMBER <b>BID #31</b>	BID CLOSING DATE AND HOUR <b>June 8, 2018 @ 5:00PM</b>	REQUIRED DELIVERY DATE <small>Days after award of Purchase Order</small>
TERMS:		DATE OF DELIVERY:

Item	Quantity	Unit of issue	DESCRIPTION	Unit Price	Total
			<p><b><u>SIX MONTH BIDS</u></b></p> <p><b>Please do not bid on any item that is not on the specifications furnished to you. If you would like to bid on an item that you did not receive specifications for please call (918) 423-4934.</b></p> <p><b>Please use the enclosed bid sheet forms to place your bid on. <u>Failure to record your bid on the furnished bid sheet may result in the disqualification of your bid.</u></b></p> <p><b>Please return your bid in the enclosed envelope. Please only one bid per envelope.</b></p> <p><b>SEE SPECIFICATIONS ATTACHED</b></p> <p><b><u>PLEASE MARK CLEARLY ON FRONT OF SHIPPING ENVELOPE BID AND BID NUMBER</u></b></p>		

### TERMS AND CONDITIONS

1. Sealed bids will be opened in the Commissioner's Conference Room, Pittsburg County Courthouse, McAlester, Oklahoma, at the time and date shown on the invitation to bid form.
2. Late bids will not be considered. Bids must be received in sealed envelopes (one to an envelope) with bid number and closing date written on the outside of the envelope.
3. Unit prices will be guaranteed correct by the bidder.
4. Firm prices will be F.O.B. destination.
5. Purchases by Pittsburg County, Oklahoma, are not subject to state or federal taxes.
6. This bid is submitted as a legal offer and any bid when accepted by the County constitutes a firm contract.
7. Oklahoma laws require each bidder submitting a bid to a county for goods or services to furnish a notarized sworn statement of non-collusion. A form is supplied below.
8. Bids will be firm until December 31, 2018.

(DATE)

AFFIDAVIT: I, the undersigned, of lawful age, being first duly sworn on oath say that he (she) is the agent authorized by the bidder to submit the above bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any state official or employee as to quantity; quality or price in the prospective contract or any other terms of said prospective contract; or in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract; that the bidder/contractor has not paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma (or other entity) any money or other thing of value, either directly or indirectly in the procuring of the award of a contract pursuant to this bid.

Subscribed and sworn before this \_\_\_\_\_ day  
of \_\_\_\_\_ 20\_\_\_\_\_ (seal)

My commission expires \_\_\_\_\_ Signed by: \_\_\_\_\_ Title: \_\_\_\_\_  
Firm: \_\_\_\_\_  
(MANUAL SIGNATURE OF UNDERSIGNED)

\_\_\_\_\_  
NOTARY PUBLIC (CLERK OR JUDGE)  
Address: \_\_\_\_\_ Phone: \_\_\_\_\_  
City: \_\_\_\_\_ State \_\_\_\_\_  
Zip \_\_\_\_\_

NOTE: Other terms and conditions can be added at the discretion of the county officers.

RESOLUTION #18-252 TO  
ADVERTISE FOR SIX MONTH BIDS

The Board of County Commissioners, Pittsburg County, met in regular session on Monday, May 21, 2018.

WHEREAS, Pittsburg County wishes to advertise for the following materials:

CRUSHED STONE  
OILFIELD ROCK aka 1" to 1 1/2" CRUSHED DECOMPOSED GRANITE  
ASPHALT SAND  
ROAD OILS  
ASPHALT PRODUCTS  
CONCRETE PRODUCTS  
PETROLEUM PRODUCTS  
SPIRAL PIPE & ARCH PIPE  
NEW & USED STEEL  
USED STEEL PIPE  
PLASTIC PIPE  
GRADER BLADES  
TIRES (NEW, MAJOR BRANDS ONLY)  
TIRE RECAPS W/CORE  
TIRE SERVICES  
LAYDOWN MACHINE  
COPY PAPER  
STRUCTURAL GEAR aka BUNKER GEAR  
FIRE HOSE  
WILDLAND GEAR  
EQUIPMENT RENTALS  
HAULING

A bid package containing complete specifications and an "Invitation to Bid" with an affidavit of non-collusion may be picked up at the County Clerk's Office, Pittsburg County Courthouse, 115 E. Carl Albert Parkway, room 103, McAlester, OK 74501. All bids must state price of the aforesaid materials and said materials must be delivered in quantities ordered when and as needed by the Board of County Commissioners, within a six-month period, beginning July 1, 2018 and ending December 31, 2018. Each competitive bid submitted to the county must be accompanied with an affidavit for filing with competitive bid form, as required by 61 O.S. § 138. No bid will be considered unless submitted on this form with affidavit completed and notarized. Place your bids in an envelope and mark it "Six Month Bids".

Sealed bids will be received by the Pittsburg County Clerk by 5:00 p.m. Friday, June 8, 2018. Bids received after 5:00 p.m. on Friday, June 8, 2018 will not be opened. Bids will be opened on Monday, June 11, 2018 at 10:00 a.m. in the Board of County Commissioners Conference Room, Pittsburg County Courthouse, 115 E. Carl Albert Pkwy, McAlester, OK 74501. Contract will be awarded to the lowest or best bidder. The Board of County Commissioners reserves the right to reject any and all bids and re-advertise.

ATTEST:



BOARD OF COUNTY COMMISSIONERS  
PITTSBURG COUNTY, OKLAHOMA

CHAIRMAN 

MEMBER 

MEMBER 

COUNTY CLERK 





**OILFIELD ROCK**

DESCRIPTION

Price Per Ton

1" to 1 1/2" Crushed Decomposed Granite \_\_\_\_\_

***ASPHALT SAND***

**BID PRICE FOR PITTSBURG COUNTY**

**VENDOR:** \_\_\_\_\_

**MUST MEET STATE SPECIFICATIONS**

**ASPHALT SAND**

**BID PRICE PER TON**

ASPHALT SAND \_\_\_\_\_

**ROAD OILS**

**PRODUCT**

**PRICE PER GALLON**

**SS-1**

\_\_\_\_\_

**CRS-2**

\_\_\_\_\_

**MC-30**

\_\_\_\_\_

**MC-3000**

\_\_\_\_\_

**AEP**

\_\_\_\_\_

**PG 64-22 OK ASPHALT BINDER**

\_\_\_\_\_

**AC-20 ASPHALT BINDER**

\_\_\_\_\_

**PUMP CHARGE**

\_\_\_\_\_

**DEMURRAGE**

\_\_\_\_\_

**MINIMUM LOAD CHARGE**

\_\_\_\_\_

**PRODUCTS MUST MEET STATE SPECIFICATIONS.**

**IF ITEM DOES NOT MEET THE SPECIFICATIONS, IT WILL BE REJECTED.**



# ASPHALT

## BID PRICE FOR PITTSBURG COUNTY

VENDOR: \_\_\_\_\_

MUST MEET STATE SPECIFICATIONS

### PATCHING MATERIALS

### PRICE

HM/HL TYPE B

HM/HL TYPE C

HM/HL S-4

HM/HL S-5

HM/CL HIGH PERFORMANCE

UPM

---

---

---

---

---

---

HOT LAY----- THE MATERIAL SHALL MEET ODOT  
SPECS FOR A TYPE C OR TYPE B  
MIX. THIS WILL CONTROL THE OIL  
CONTENT AND GRADATION

COLD LAY----- THE MATERIAL SHALL MEET ODOT  
SPECS FOR A HC2, HC3, OR HC4  
THIS WILL CONTROL THE GRADATION  
AND OIL CONTENT, LUMPS OF MATERIAL  
THAT HAVE SET UP AND ARE NOT  
USEABLE WILL BE REJECTED.

**IF ITEM DOES NOT MEET THE SPECIFICATIONS, IT WILL BE REJECTED.**

# CONCRETE

## CONCRETE PRODUCTS

TYPE A

TYPE AA

3000 PSI

\_\_\_\_\_

\_\_\_\_\_

3500 PSI

\_\_\_\_\_

\_\_\_\_\_

4000 PSI

\_\_\_\_\_

\_\_\_\_\_

PRICE PER MILE

\_\_\_\_\_

# PETROLEUM PRODUCTS

## BID PRICE FOR PITTSBURG COUNTY

VENDOR:

PRODUCT	SIZE OF CONTAINER	SPECIFICATION	BID PRICE
<u>ENGINE OIL, DIESEL OIL</u>			
<b>MAJOR BRAND (GAS ENGINES ONLY)</b>			
ENGINE OIL (DIESEL)	1 GAL CAN	HD-II, SAE 30 SF/CC, CD	
	1 QT/12 CASE	HD-II, SAE 30 SF/CC, CD	
	55 GAL DRUM	HD-II, SAE 30 SF/CC, CD	
	5 GAL CAN		
<b>J. D PLUS 50 SUPREME</b>			
	1 GAL CAN	SAE 40 SAE 30 15W40	
	BULK PER GALLON	SAE 40 SAE 30 15W40	
<b>OIL EQUIVALENT TO PENZOIL</b>			
	1 QT/12 CASE	SAE30	
	1 GALLON CAN	SAE 30	
<u>ENGINE OIL, MULTI-GRADE</u>			
ENGINE OIL (GASOLINE)			
	1 QT/12 CASE	SAE 30	
	55 GAL DRUM	SE, SF/CC	
	1 QT/12 CASE	15W40	
	1 GAL CAN	15W40	
	1 QT/12 CASE	5W20	
	1 QT/12 CASE	5W30	
	1 QT/12 CASE	10W30	
<b>QUAKER STATE (REQUIRED TO MEET WARRANTY SPECIFICATIONS)</b>			
	1 QT/12 CASE	5W30	
<b>SYNTHETIC BLEND GASOLINE ENGINE OIL</b>			
	1 QT/12 CASE	5W20	
	1 QT/12 CASE	5W30	
<b>DEXOS FULL SYNTHETIC (REQUIRED FOR WARRANTY SPECIFICATIONS)</b>			
	1 QT/12 CASE	5W30	
<b>MOTORCRAFT FULL SYNTHETIC (REQUIRED FOR WARRANTY SPECIFICATIONS)</b>			
	1 QT/12 CASE	5W20	
<b>CLEANING SOLVENT LIFT OIL (TRUCK &amp; EQ.)</b>			
	55 GAL DRUM	NON-STAIN	
	55 GAL DRUM	SERIES 3 SAE-10WT	

## PETROLEUM PRODUCTS

### BID PRICE FOR PITTSBURG COUNTY

HYDRAULIC OILS ANTI WEAR TYPE R & O

HYDRAULIC OIL TRANS-DIFF HYD	5 GAL CAN	JD-303
HYDRAULIC OIL TRANS-DIFF-HYD	55 GAL DRUM	JD-303
HYDRAULIC OIL TRANS-DIFF-HYD	BULK PER GALLON	JD-303
HYDRAULIC OIL TRANSMISSION (303)	5 GAL CAN	
SUPER HYDRO 32	55 GAL DRUM	10 WT.
JOHN DEERE HY- GUARD REQUIRED TO MEET WARRANTY SPECIFICATIONS)	5 GAL CONTAINER	
TO4 SPEC OIL (CAT HYDRAULIC) (TRANSMISSION OIL)	1 GAL CAN 5 GAL CONTAINER 55 GAL DRUM	30 WT 30 WT 30 WT
TO4 SPEC OIL (CAT HYDRAULIC) DRIVE TRAIN OIL)	1 GAL CAN 5 GAL CONTAINER 55 GAL DRUM	50 WT 50 WT 50 WT
CAT HYDRAULIC OIL	1 GAL CAN 5 GAL CONTAINER 55 GAL DRUM	10 WT 10 WT 10 WT
CG-4 ENGINE OIL	1 GAL CAN 5 GAL CONTAINER 55 GAL DRUM	15W40 15W40 15W40
DRIVE TRAIN OIL	5 GAL CONTAINER 55 GAL DRUM	30 WT 30 WT

PRODUCT QUALITY AND IDENTIFICATION: ALL LUBRICATION PRODUCTS BID UNDER THESE SPECIFICATIONS MUST BE MANUFACTURED OR REFINED FROM VIRGIN CRUDE OIL. **RE-FINED PETROLEUM PRODUCT WILL NOT BE ACCEPTED.** ALL CONTAINERS MUST BE CLEARLY LABELED WITH BRAND NAME, THE SAE WEIGHTS, PRODUCT SPECIFICATIONS, PRODUCT SPECIFICATIONS, AND THE API CLASSIFICATION, WHERE APPLICABLE.

SUCCESSFUL BIDDER MUST KEEP BID ITEM IN STOCK. **PLEASE NO SUBSTITUTIONS ON BID ITEMS.** IF A SUBSTITUTION MUST BE MADE, THE PRICE MUST BE AGREED UPON BETWEEN THE RECEIVING OFFICER AND THE VENDOR BEFORE DELIVERY IS MADE

# SPIRAL PIPE

## BID PRICE FOR PITTSBURG COUNTY

VENDOR: \_\_\_\_\_

### SPIRAL PIPE - 16 GA. 2.66"      PRICE PER FOOT

12"	_____
15"	_____
18"	_____
21"	_____
24"	_____
30"	_____
36"	_____
42"	_____
48"	_____

### SPIRAL PIPE - 16 GA. 3.1"

36"	_____
42"	_____
48"	_____
54"	_____
60"	_____
66"	_____
72"	_____
78"	_____
84"	_____
90"	_____

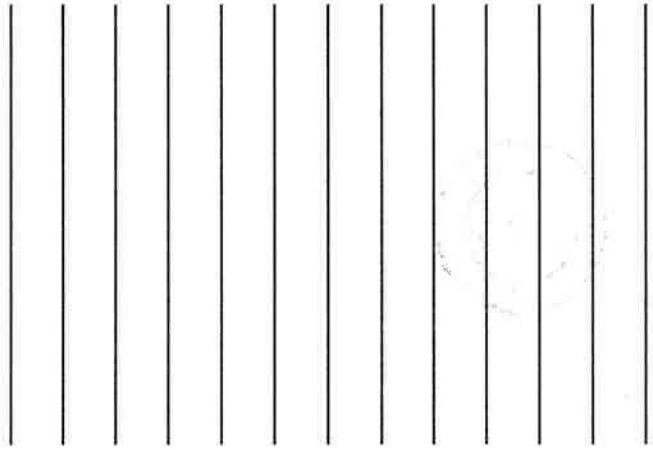
### SPIRAL PIPE -14 GA. 2.6"

### PRICE PER FOOT

12"	_____
15"	_____
18"	_____
21"	_____
24"	_____
30"	_____
36"	_____
42"	_____
48"	_____
54"	_____
60"	_____

**SPIRAL PIPE - 14 GA. 3.1"**

- 42"
- 48"
- 54"
- 60"
- 66"
- 72"
- 78"
- 84"
- 90"
- 96"
- 102"
- 108"
- 114"



**BID PRICE FOR PITTSBURG COUNTY**

**ARCH PIPE -16 GA. 2.6"**

**PRICE PER FOOT**

- 15"
- 18"
- 21"
- 24"
- 30"
- 36"
- 42"

---

---

---

---

---

---

---

**ARCH PIPE - 14 GA. 2.6"**

- 15"
- 18"
- 21"
- 24"
- 30"
- 36"
- 42"
- 48"

---

---

---

---

---

---

---

---

**ARCH PIPE 12 GA. 3.1"**

- 84"
- 96"

---

---

**ARCH PIPE - 14 GA. 3.1"**

- 42"
- 48"
- 54"
- 60"
- 66"
- 72"
- 78"

---

---

---

---

---

---

---

---

# NEW & USED STEEL

## BID PRICE FOR PITTSBURG COUNTY

VENDOR: \_\_\_\_\_

		NEW	USED
STEEL BEAMS	LB	_____	_____
HI-PILE	LB	_____	_____
HEAVY WALL PIPE PILING			
6"	FT	_____	_____
7"	FT	_____	_____
8"	FT	_____	_____
9"	FT	_____	_____
DECKING			
24 GAUGE	SQ. FT	_____	_____
22 GAUGE	SQ. FT	_____	_____
STRUCTURAL STEEL	LB	_____	_____
SECONDARY STRUCTURAL STEEL	LB	_____	_____
PLATE	LB	_____	_____
GRADE 60 REBAR			
1/2"	FT	_____	_____
5/8"	FT	_____	_____
GUARD RAIL	FT	_____	_____





**USED STEEL PIPE**  
**BID PRICE FOR PITTSBURG COUNTY**

VENDOR \_\_\_\_\_

SIZE	PRICE PER FOOT
12"	_____
16"	_____
18"	_____
20"	_____
22"	_____
24"	_____
26"	_____
30"	_____
34"	_____
36"	_____
42"	_____
48"	_____
54"	_____
60"	_____
7'	_____
8'	_____
8 1/2'	_____
9'	_____
9 1/2'	_____
10'	_____

**DRILL TUBING**

2 3/8"	_____
2 7/8"	_____

**PLASTIC PIPE  
PRICE PER FOOT**

**BLACK**

**GREY**

12"

\_\_\_\_\_

\_\_\_\_\_

15"

\_\_\_\_\_

\_\_\_\_\_

18"

\_\_\_\_\_

\_\_\_\_\_

21"

\_\_\_\_\_

\_\_\_\_\_

24"

\_\_\_\_\_

\_\_\_\_\_

30"

\_\_\_\_\_

\_\_\_\_\_

36"

\_\_\_\_\_

\_\_\_\_\_

42"

\_\_\_\_\_

\_\_\_\_\_

48"

\_\_\_\_\_

\_\_\_\_\_

60"

\_\_\_\_\_

\_\_\_\_\_

## GRADER BLADES

### GRADER BLADES 5/8" BOLT HOLE

5/8" X 6" X 7'

5/8" X 8" X 7' (HIGH CARBON)

3/4" X 8" X 7' (HIGH CARBON)

3/4" X 8" X 7' (NON CARBON)

WITH 6" CENTERS

---

---

---

---

---

### GRADER BLADES 3/4" BOLT HOLE

5/8" X 6" X 7'

5/8" X 8" X 7' (HIGH CARBON)

3/4" X 8" X 7' (HIGH CARBON)

3/4" X 8" X 7' (NON CARBON)

WITH 6" CENTERS

---

---

---

---

**TIRES**

SIZE	TREAD	LOAD RANGE	DESCRIPTION	PRODUCT	PRICE
	OR PLY			CODE	
ST205/75Rx15	HY	8-D	SPECIAL TRAILER		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
ST225/75Rx15	HY	10-E	SPECIAL TRAILER		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
215/60Rx16	A/S	4-B	RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
215/85Rx16	A/P	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
225/75Rx16	A/P	8-D	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
225/60VRx16	A/S	4 VR	POLICE PURSUIT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
225/60VRx18	A/S	4 VR	POLICE PURSUIT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
265/60VRx17	A/S	4 VR	POLICE PURSUIT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
LT225/75Rx17	A/P	10-E	LT STEEL RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/50Rx18	A/S	4 VR	POLICE PURSUIT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
P235/75Rx15	A/S	4-B	STEEL RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
LT235/75Rx15	HY	6-C	LT STEEL RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					

SIZE	TREAD	LOAD RANGE	DESCRIPTION	PRODUCT	PRICE
	OR PLY			CODE	
LT235/75Rx15	M&S	6-C	LT STEEL RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/70Rx16	HY	10-	STEEL RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/70Rx16	A/T	10-	STEEL RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/80Rx16	AP	8-	SPECIAL TRAILER		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/85Rx16	H/T	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/85Rx16	A/T	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/85Rx16	M&S	10-E	HD CUT & CHIP		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/85Rx16	LUG	10-E	MAX TRACTION RDL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/55Rx17	HY	4-B	STEEL RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/80Rx17	HY	10-E	RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
235/80Rx17	HY	14-G	RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
245/75Rx16	H/T	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
245/75Rx16	H/T	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					

SIZE	TREAD	LOAD RANGE	DESCRIPTION	PRODUCT	PRICE
	OR PLY			CODE	
245/75Rx16	A/T	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
245/75Rx16	LUG	10-E	MAX TRACTION RDL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
245/70Rx17	LUG	10-E	MAX TRACTION RDL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
245/75Rx17	H/T	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
245/75Rx17	A/T	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
245/75Rx17	LUG	10-E	MAX TRACTION RDL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
245/55Rx18	HY	4-B	STEEL RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
265/75Rx16	H/T	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
265/75Rx16	A/T	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
265/75Rx16	LUG	10-E	MAX TRACTION RDL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
265/70Rx17	A/T	4-B	RADIAL "P" METRIC		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					

SIZE	TREAD	LOAD RANGE	DESCRIPTION	PRODUCT	PRICE
	OR PLY			CODE	
265/70Rx17	A/T	10-E	RADIAL LT		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR					
265/70Rx17	LUG	10-E	MAX TRACTION RDL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	A/P	4-B	RADIAL "P" METRIC		
265/65Rx18					
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	A/P	10-E	RADIAL		
275/65Rx18					
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	H/T	10-E	RADIAL LT		
275/70Rx18					
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	H/T	10	RADIAL		
285/75RX16					
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	LUG	10-E	MAX TRACTION RDL		
285/75R16					
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	LUG	8-D	MAX TRACTION RDL		
285/70R17					
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	HY	H-16	LPT RADIAL TBL		
215/75R17.5					
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	HY	F-12	RADIAL		
225/70R19.5					
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	M/S	F-12	RADIAL		
225/70R19.5					
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	HY	H-16	LPT RADIAL TBL		
255/70R22.5					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					

SIZE	TREAD	LOAD RANGE	DESCRIPTION	PRODUCT	PRICE
	OR PLY			CODE	
285/75Rx24.5	HY	14-G	RADIAL		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
285/75Rx24.5	LUG	14-G	RADIAL		
TIRE MOUNT					
TIRE CHANGE					
WHEEL BALANCING					
FLAT REPAIR	LUG	G-14	RADIAL TUBELESS		
295/75Rx22.5					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	HY	J-18	STEERING RADIAL		
315/80Rx22.5					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	M/S	J-18	RADIAL		
315/80Rx22.5					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	A/T	6-C	ATV		
25/1000x12					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	A/T	6-C	UTV		
25x11x12					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	A/T	8-	UTV		
28x10x12					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	HY	12-F	RADIAL TUBELESS		
9Rx22.5					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	HY	12-F	RADIAL		
10Rx22.5					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	LUG	12-F	RADIAL		
10Rx22.5					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	F-3	8-	INDUSTRIAL TBL		
11Lx15					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	F-3	10-	INDUSTRIAL TBL		
11Lx16					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	LUG	14-G	DRIVE LUG		
11Rx22.5					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR	HY	14-G	RADIAL		
11Rx22.5					
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					



SIZE	TREAD	LOAD	RANGE	DESCRIPTION	PRODUCT	PRICE
	OR	PLY			CODE	
11Rx22.5 TIRE MOUNT	HY	14-G		PREMIUM STEERING		
TIRE CHANGE						
FLAT REPAIR						
11Rx22.5 TIRE MOUNT	M&S	14-G		MAX TRACTION RDL		
TIRE CHANGE						
FLAT REPAIR						
11Rx24.5 TIRE MOUNT	LUG	14-G		DRIVE LUG		
TIRE CHANGE						
FLAT REPAIR						
11Rx24.5 TIRE MOUNT	M&S	14-G		MAX TRACTION RDL		
TIRE CHANGE						
FLAT REPAIR						
11Rx24.5 TIRE MOUNT	HY	14-G		PREMIUM STEERING		
TIRE CHANGE						
FLAT REPAIR						
12x16 TIRE MOUNT	R-4	8-		SKID STEER		
TIRE CHANGE						
FLAT REPAIR						
12x16.5 TIRE MOUNT	NHS	8-		FRONT BACK HOE		
TIRE CHANGE						
FLAT REPAIR						
12.5/80x18 TIRE MOUNT	R-4	12-F		BACKHOE		
TIRE CHANGE						
FLAT REPAIR						
13.6x28 TIRE MOUNT	R-1	6-		FARM TUBE TYPE		
TIRE CHANGE						
FLAT REPAIR						
14x17.5 TIRE MOUNT	NHS	8-		SUPTRAC DUPLEX		
TIRE CHANGE						
FLAT REPAIR						
16.9x34 TIRE MOUNT	R-1	6-		FARM TUBE TYPE		
TIRE CHANGE						
FLAT REPAIR						
17.5L24 TIRE MOUNT	R-4	8-		IND LUG TUBELESS		
TIRE CHANGE						
FLAT REPAIR						
340/85Rx24 TIRE MOUNT	R-1	8-		FRONT TRACTOR		
TIRE CHANGE						
FLAT REPAIR						
17.5x25 TIRE MOUNT	G-2	12-		GRADER LOADER TBL		
TIRE CHANGE						
FLAT REPAIR						

SIZE	TREAD	LOAD RANGE	DESCRIPTION	PRODUCT	PRICE
	OR PLY			CODE	
17.5x25	RL	12-	LOADER ROCKLUG TBL		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
17.5Rx25	LUG		RADIAL TBL LUG		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
20.5x25	L2		RADIAL		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
18.4x30	R-1	8-	FARM TUBE TYPE		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
18.4x34	R-1	8-	FARM TUBE TYPE		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
460/85Rx34	R-1	8-	REAR TRACTOR		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
18.4x38	R-1	8-	FARM TUBE TYPE		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
19.5x24	R-4	12-	BACKHOE IND LUG TBL		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
20.8x34	R-1	8-	TRACTOR		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
20.8x38	R-1	8-	FARM TUBE TYPE		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
23.1x26	HF-1	12-	TURF TIRE		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
750x16	TRIRIB	6-	FARM TUBELESS		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
750Rx16	HY	14-G	TRAILER		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
900x20	HW		TUBE TYPE		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					

SIZE	TREAD	LOAD RANGE OR PLY	DESCRIPTION	PRODUCT CODE	PRICE
900x20	LUG		TUBE TYPE		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
900Rx20	HY	12-F	RADIAL		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
900Rx20	M&S	12-F	RADIAL		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
900Rx20	LUG	12-F	MAX TRACTION RDL		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
1000x16	TRIRIB	8-	FARM TUBELESS		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
1100x16	TRIRIB	8-	FARM TUBELESS		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
1000Rx20	HY	14-G	RADIAL TUBETYPE		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
1000Rx20	M&S	14-G	RADIAL TUBETYPE		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
1400x24	G-2	12-	TBL PREMIUM 181 LBS		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
1400x24	G-2	12-	TBL ECONOMY 137 LBS		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
1400Rx24	G-2/L-2	ONE*	RADIAL TUBELESS		
TIRE MOUNT					
TIRE CHANGE					
FLAT REPAIR					
<b>RECAPPED WITH CORE</b>					
11Rx22.5					
11Rx24.5					
1400x24					

**\* MAJOR BRAND TIRES**

**\* BID PREMIUM TIRES**

## TIRE SERVICE

### SERVICE CALLS

BASE CHARGE

---

AFTER HOURS

---

PER MILE

---

DELAY CHARGE

---

LAYDOWN MACHINE  
NO CREW

LAYDOWN MACHINE

PRICE

DAILY RENTAL

---

WEEKLY RENTAL

---

COPY PAPER

<u>SIZE</u>	<u>BRIGHTNESS</u>	<u>WEIGHT</u>	<u>PRICE PER CASE</u>
8 1/2x11	White 92	20lb	_____
8 1/2x14	White 92	20lb	_____
11x17	White 92	20lb	_____
8 1/2x14	Canary Yellow	20lb	_____
8 1/2x14	Green	20lb	_____

BUNKER GEAR

ITEM

PRICE

JACKET

\_\_\_\_\_

DUAL RADIO POCKET

\_\_\_\_\_

FLASHLIGHT HOLDER

\_\_\_\_\_

AMERICAN FLAG

\_\_\_\_\_

DEPARTMENT LETTERING

\_\_\_\_\_

FIREFIGHTER NAME

\_\_\_\_\_

TROUSERS

\_\_\_\_\_

# GENERAL SPECIFICATIONS PROTECTIVE JACKET AND PANTS FOR STRUCTURAL FIRE FIGHTING

## SCOPE

This specification details design and materials criteria to afford protection to the upper and lower body, excluding head, hands, feet, against adverse environmental effects during structural fire fighting. All materials and construction will meet or exceed NFPA Standard #1971 and OSHA for structural fire fighters protective clothing.

\_\_\_\_\_Comply          \_\_\_\_\_Exception

## SIZING

In order to insure that every member of the department can safely perform to the maximum of their ability without extra bulk and without restriction, Jackets and Pants shall be available in all sizes and dimensions as follows:

### Pants:

Gender: Gender specific Mens and Womens patterns  
Waist: Even sizes  
Body Shape: Men's: Relaxed and Regular Note: Relaxed is a fuller cut in the hips and thighs, like relaxed jeans.  
Women's: Relaxed  
Inseam: Even sizes

### Jackets:

Gender: Gender specific Mens and Womens patterns will be available.  
Chest: Even sizes  
Back Length: Mens 29", 32", 35", 40"  
Womens 26", 29"  
Body Shape: Men's: Straight and Tapered Note: The straight cut offers more fullness at the hips (i.e. jacket sweep) and is recommended when an IH Ready trouser is being specified.  
Women's: Straight  
Sleeve: 1" increments

Jackets and Pants available in only one standard shape will not be acceptable.

\_\_\_\_\_Comply          \_\_\_\_\_Exception

## OUTER SHELL MATERIAL - JACKETS AND PANTS

The outer shell shall be constructed of TENCATE "PIONEER™" featuring ENFORCE™ Technology. This is a fiber blend of DuPont™ Kevlar® and Nomex® having an approximate weight of 6.6 oz. per square yard in a twill weave. The shell material must be treated with SUPER SHELLTITE™ which is a durable water-repellent finish that also enhances abrasion resistance. Color of the garments shall be yellow, gold, light gold, khaki, black. **Bids offering this shell material without the SUPER SHELLTITE™ will not be considered.**

\_\_\_\_\_Comply          \_\_\_\_\_Exception



## THERMAL INSULATING LINER - JACKET AND PANTS

The thermal liner shall be constructed of 7.0 oz. per square yard TENCATE "DEFENDER M NP"; consisting of a single layer of needlepunched nonwoven batt, quilt stitched to a Brass colored 65% Lenzing FR Rayon, 25% Para-Aramid, and 10% Nylon (spun yarn) blended face cloth. An approximate 8 inch by 10 ½ inch pocket, constructed of thermal liner over-edged to a layer of moisture barrier material, shall be affixed to the inside of the jacket thermal liner on the left side by means of a single needle stitch. The thermal liner shall be sewn to the moisture barrier and bound around its perimeter with bias-cut Neoprene coated cotton/polyester binding. Further mention of "Thermal Liner" in this specification shall refer to this section.

\_\_\_\_\_ Comply                      \_\_\_\_\_ Exception

## MOISTURE BARRIER - JACKETS AND PANTS

The moisture barrier material shall be W.L.GORE "GORE™ RT7100 Type 3D" moisture barrier which shall be GORE PTFE on a non-woven Nomex® substrate with an approximate weight of 4.6 oz. per square yard. The GORE PTFE Type 3D moisture barrier product incorporates GORE PTFE technology, with enhanced bicomponent technology and shall be laminated to a non-woven substrate. This alternative product is intended as a thermally stable alternate to NFPA compliant polyurethane-based moisture barriers. The moisture barrier shall be sewn to the thermal liner at the edges only and bound with bias-cut neoprene-coated cotton/polyester binding. Further mention of "Specified Moisture Barrier" in this specification shall refer to this section.

\_\_\_\_\_ Comply                      \_\_\_\_\_ Exception

## SEALED MOISTURE BARRIER SEAMS

All moisture barrier seams shall be sealed with a minimum 1 inch wide sealing tape. One side of the tape shall be coated with a heat activated glue adhesive. The adhesive side of the tape shall be oriented toward the moisture barrier seam. The adhesive shall be activated by heat and the sealing tape shall be applied to the moisture barrier seams by means of pressure exerted by rollers for that purpose.

\_\_\_\_\_ Comply                      \_\_\_\_\_ Exception

## METHOD OF THERMAL LINER/MOISTURE BARRIER ATTACHMENT FOR JACKETS AND PANTS

The thermal liner and moisture barrier shall be completely removable from the jacket shell. A total of six snap fasteners shall secure the thermal liner/moisture barrier to the outer shell along the length of the neck line under the top most collar. The top most collar shall be turned under and finished such that the snaps on the collar will not be able to contact the wearers skin. Corresponding snaps shall be installed through a moisture barrier leader measuring an approximate height of 1.75 – 2 inches and shall not penetrate through to the outer shell on the backside of the collar. The remainder of the thermal liner/moisture barrier shall be secured with snap fasteners appropriately spaced on each jacket facing and Ara-Shield® snap fasteners at each sleeve end. There shall be one Ara-shield® snap tabs at the liner sleeve end which shall be colored to correspond with color coded snap tabs on the shell sleeve end for ease of matching the liner system to the outer shell after inspection or cleaning is completed.

The thermal liner and moisture barrier shall be completely removable from the pant shell. Nine snap fasteners shall be spaced along the waistband to secure the thermal liner to the shell. The legs of the thermal liner/moisture barrier shall be secured to the shell by means of Ara-Shield® snap fasteners, 2 per leg. The Ara-shield® snap tabs on the shell shall be color coded to corresponding color coded snap tabs in the liner for ease of matching the liner system to the outer shell after inspection or cleaning is completed. There shall be no hook and loop used to close the liner access opening.

\_\_\_\_\_Comply            \_\_\_\_\_Exception

### **THERMAL PROTECTIVE PERFORMANCE**

The assembled garment, consisting of an outer shell, moisture barrier and thermal liner, shall exhibit a TPP (Thermal Protective Performance) rating of not less than 35.

\_\_\_\_\_Comply            \_\_\_\_\_Exception

### **STITCHING**

The outer shell shall be assembled using stitch type #301, #401, #514 and #516. The thermal liners and moisture barriers shall be assembled using stitch type #301, #401, #504, #514, and #516. Major A outer shell structural seams and major B structural liner seams, shall have a minimum of 8 to 10 stitches per inch. All major A seams shall be sewn with ball point needles only. All seams shall be continuously stitched only.

\_\_\_\_\_Comply            \_\_\_\_\_Exception

## **JACKET CONSTRUCTION**

### **BODY**

The body of the shell and AXTION® liner system shall be constructed of three separate panels consisting of two front panels and one back panel. The body panels shall be shaped so as to provide a tailored fit thereby enhancing body movement and shall be joined together by double stitching with Nomex® thread. One-piece outer shells shall not be acceptable.

\_\_\_\_\_Comply            \_\_\_\_\_Exception

### **AXTION® BACK**

The jacket outer shell shall include inverted pleats to afford enhanced mobility and freedom of movement in addition to that provided by the AXTION® sleeves. The outer shell shall have two inverted pleats (one each side) installed on either side of the back body panel. The inverted pleats shall begin at the top of each shoulder and extend vertically down the sides of the jacket to the hem. Maximum expansion of the pleats shall occur at the shoulder area and taper toward the hem. Pleats that do not extend to the hem will not be considered, since they do not provide a true AXTION® back.

The moisture barrier and thermal liner layers shall be designed with darts corresponding to the added length in the shell provided by the AXTION® back pleats. The darts are positioned at the shoulder blades, outside of the SCBA straps and work together with the corresponding outer shell pleats in the AXTION® back, providing maximum expansion. The moisture barrier darts will be seam sealed to assure liquid resistance integrity.

\_\_\_\_\_Comply            \_\_\_\_\_Exception

### **LOGOS**

The garment brand shall be identified by means of red FR Nomex® thread embroidery on the top of the left collar denoting the manufacturer. There shall be a reflective label specific to the garment style, measuring 1 inch wide by 4 inches long, installed on the left pocket flap.

\_\_\_\_\_Comply            \_\_\_\_\_Exception

## DRAG RESCUE DEVICE (DRD)

A Firefighter Drag Rescue Device (DRD) shall be installed in each jacket. The ends of a 1½ inch wide strap, constructed of black Kevlar® with a red Nomex® center stripe, will be sewn together to form a continuous loop. The strap will be installed in the jacket between the liner system and outer shell such that when properly installed will loop around each arm. The strap will be accessed through a portal between the shoulders on the upper back where it is secured in place by an FR strap. The DRD shall be removable for laundering. The access port will be covered by an outside flap of shell material, with beveled corners designed to fit between the shoulder straps of an SCBA. The flap will have a NFPA-compliant 3M Scotchlite™ reflective logo patch sewn to the outside to clearly identify the feature as the DRD (Drag Rescue Device). The DRD shall not extend beyond the outside flap. This device provides a quickly deployed means of rescuing a downed firefighter. Flimsy, rope-style DRD straps will not be considered.

\_\_\_\_\_Comply            \_\_\_\_\_Exception

## LINER ACCESS OPENING (JACKET)

The liner system of the jacket shall incorporate an opening at each of the leading edges of the left and right front panels. This opening shall run a minimum of 12 inches along the perimeters for the purpose of inspecting the integrity of the jacket liner system. When installed into the outer shell the Liner Access Opening will be covered and protected by the overlap of the outer shell facing.

\_\_\_\_\_Comply            \_\_\_\_\_Exception

## RETROREFLECTIVE FLUORESCENT TRIM

The retroreflective fluorescent trim shall be lime/yellow 3M Scotchlite™ Triple Trim (L/Y borders with silver center).

Each jacket shall have an adequate amount of retroreflective fluorescent trim affixed to the outside of the outer shell to meet the requirements of NFPA 1971 and OSHA.

The trim shall be in the following widths and shall be **NFPA Basic style**; 3 inch wide stripes - around the bottom of the jacket within approximately 1 inch of the hem and around the back and chest area approximately 3 inches below the armpit, around each sleeve below the elbow.

\_\_\_\_\_Comply            \_\_\_\_\_Exception

## REINFORCED TRIM STITCHING

All reflective trim is secured to the outer shell with Nomex® thread, using a locking chainstitch protected by our exclusive TrimTrax® system, this strip of 3/32-inch strong, durable, flame resistant black Kevlar® cording provides a bed for the stitching along each edge of the retroreflective fluorescent trim surface and affords extra protection for the thread from abrasion. TrimTrax® has been proven to be 5 to 7 times more durable than single or even double rows of stitching, significantly reducing maintenance costs and providing more value and a longer service life. Two rows of stitching used to attach the trim in place of the TrimTrax® shall be considered an unacceptable alternative, since it has been proven that the two rows of stitching has insignificant impact on wear life. All trim ends shall be securely sewn into a seam for a clean finished appearance.

\_\_\_\_\_Comply            \_\_\_\_\_Exception

## SEWN ON RETROREFLECTIVE LETTERING (OPTIONAL)

Each jacket shall have 3" lime/yellow 3M Scotchlite™ lettering on Row A reading: Department name up to 10 letters

\_\_\_\_\_ Comply                      \_\_\_\_\_ Exception

## LETTER PATCH(OPTIONAL)

### Hanging Letter Patch

The hanging letter patch shall be constructed of a double layer of outer shell material. The letter patch will attach to the rear inside hem of the jacket with a combination of snap fasteners and FR hook & loop fastener tape.

\_\_\_\_\_ Comply                      \_\_\_\_\_ Exception

## COLLAR & FREE HANGING THROAT TAB

The collar shall consist of a minimum four-layer construction and be of one-piece design. There shall be two layers of specified moisture barrier material sandwiched in between two layers of outer shell fabric (see Moisture Barrier section). The forward inside ply of moisture barrier shall be sewn to the inside of the collar along the edges only. The multi-layered configuration shall provide protection from water and other hazardous elements, while maintaining thermal protection. The collar shall be a minimum of 3 inches high and graded to chest size. The leading edges of the collar shall extend up evenly from the leading edges of the jacket front body panels so that no gap occurs at the throat area. The collar back layers of outer shell and moisture barrier shall be joined to the body panels with a minimum of two rows of stitching. The collar front layers of outer shell and moisture barrier fabric shall have a series of 6 snap fasteners spaced equidistant to minimize gaps on lower edge of the collar. The top most collar shall be turned under and finished such that the snaps on the collar will not be able to contact the wearer's skin. There shall be 6 corresponding snap fasteners on a moisture barrier leader, which is sewn to the thermal liner system to engage the snaps on the collar. The snaps on the thermal liner system leader will be installed such that they do not penetrate from the outer shell through to the inner layers. This moisture barrier leader on the thermal liner system shall be sandwiched between the underside of the top collar shell fabric and moisture barrier material and the bottom collar shell fabric and moisture barrier material so as to reduce the possibility of liner detachment while donning and doffing.

The throat tab shall be a scoop type design and constructed of two plies of outer shell material with two center plies of moisture barrier material. The throat tab shall measure not less than 3 inches wide at the center tapering to 2 inches at each end with a total length of approximately 9 inches. The throat tab will be attached to the right side of the collar by a 1 inch wide by 1 inch long piece of Nomex® twill webbing. The throat tab shall be secured in the closed and stowed position with FR hook and loop fastener tape. The FR hook and loop fastener tape shall be oriented to prevent exposure to the environment when the throat tab is in the closed position. Two 1½ inch by 3 inch pieces of FR loop fastener tape shall be sewn vertically to the inside of each end of the throat tab. Corresponding pieces of FR hook fastener tape measuring 1 inch by 3 inches shall be sewn horizontally to the leading outside edge of the collar on each side, for attachment and adjustment when in the closed position and wearing a breathing apparatus mask. In order to provide a means of storage for the throat tab when not in use, a 1 inch by 3 inch piece of FR hook fastener tape shall be sewn horizontally to the inside of the throat tab immediately under the 1½ inch by 3 inch pieces of FR loop fastener tape. The collar closure strap shall fold in half for storage with the FR loop fastener tape engaging the FR hook fastener tape.

A hanger loop constructed of a double layer of outer shell material shall be sewn to the top of the collar at the center.

\_\_\_\_\_ Comply                      \_\_\_\_\_ Exception

**JACKET FRONT**

The jacket shall incorporate separate facings to ensure there is no interruption in thermal or moisture protection in the front closure area. The facings shall measure approximately 2½ inches wide, extend from collar to hem, and be double stitched to the underside of the outer shell at the leading edges of the front body panels. A breathable moisture barrier material shall be sewn to the jacket facings and configured such that it is sandwiched between the jacket facing and the inside of the respective body panel. The breathable film side shall face inward to protect it. There shall be wicking barrier constructed of Crosstech® 2F moisture barrier material installed on the front closure system on the left and right side directly below the front facings to ensure continuous protection and overlap. The wicking barrier shall extend no more than a maximum of ¾" beyond the inner facing and false facing shall be unacceptable. The thermal liner and moisture barrier assembly shall be attached to the jacket facings by means of snap fasteners.

\_\_\_\_\_ Comply                  \_\_\_\_\_ Exception

**STORM FLAP**

A rectangular storm flap measuring approximately 3 inches (6 inches for hook and dee inside/FR hook and loop fastener tape outside closure; aka #7C) wide and a minimum of 23 inches long (based on a 32" jacket) shall be centered over the left and right body panels to ensure there is no interruption in thermal or moisture protection in the front of the jacket. The outside storm flap shall be constructed of two plies of outer shell material with a center ply of breathable moisture barrier material. The outside storm flap shall be double stitched to the right side body panel and shall be reinforced at the top and bottom with bartacks.

\_\_\_\_\_ Comply                  \_\_\_\_\_ Exception

**STORM FLAP AND JACKET FRONT CLOSURE SYSTEM**

The jacket shall be closed by means of a 22 inch size #10 heavy duty high-temp smooth-gliding YKK Vislon® zipper on the jacket fronts and FR hook and loop fastener tape on the storm flap. The teeth of the zipper shall be mounted on black Nomex® tape and shall be sewn into the respective jacket fronts. The storm flap shall close over the left and right jacket body panels and shall be secured with FR hook and loop fastener tape. A 1½ inch piece of FR loop fastener tape shall be installed along the leading edge of the storm flap on the underside with four rows of stitching. A corresponding 1½ inch piece of FR hook fastener tape shall be sewn with four rows of stitching to the front body panel and positioned to engage the loop fastener tape when the storm flap is closed over the front of the jacket.

\_\_\_\_\_ Comply                  \_\_\_\_\_ Exception

**ZIPPERGRIPPER™**

There shall be a ZIPPERGRIPPER™ feature integrated into the zipper closure of the jacket. The ZIPPERGRIPPER™ shall facilitate donning and shall provide additional room at the base of the jacket when sitting otherwise engaged. The ZIPPERGRIPPER™ will be comprised of black Ara-Shield®, with the zipper installed on one side of the Ara-Shield® and with the opposite side double stitched to the left coat front. The ZIPPERGRIPPER™ will be wedged shaped, measuring approximately 4 inches high and finished 1½ inches wide at the bottom. There will be a single row of stitching, approximately 2 inches high, to ensure the ZIPPERGRIPPER™ is held in place beneath the stormflap.

\_\_\_\_\_ Comply                  \_\_\_\_\_ Exception

**CARGO/HANDWARMER EXPANSION (BELLOWS) POCKETS**

Each jacket front body panel shall have a 2 inch deep by 8 inch wide by 8 inch high expansion pocket, double stitched to it and shall be located such that the bottom of the pockets are at the bottom of the jacket for full functionality when used with an SCBA. Retroreflective trim shall run over the bottom of the pockets so as not to interrupt the trim stripe. Two rust resistant metal drain eyelets shall be installed in the bottom of each expansion pocket to facilitate drainage of water. *The expansion pocket shall be reinforced with a layer of Kevlar® approximately 5 inches up on the inside of the pocket.* The pocket flaps shall be rectangular in shape, constructed of two layers of outer shell material and shall measure 3 inches deeper than the pocket expansion and ½ inch wider than the pocket. The upper pocket corners shall be reinforced with proven bartacks and pocket flaps shall be reinforced with bartacks. The pocket flaps shall be closed by means of FR hook and loop fastener tape. Two pieces of 1 ½ inch by 3 inch FR hook fastener tape shall be installed vertically on the inside of each pocket flap (one piece on each end). Two corresponding pieces of 1 ½ inch by 3 inch FR loop fastener tape shall be installed horizontally on the outside of each pocket near the top (one piece on each end) and positioned to engage the hook fastener tape.

Additionally, a separate hand warmer pocket compartment will be provided under the expandable cargo pocket. This compartment will be accessed from the rear of the pocket and shall be lined with Nomex® Fleece for warmth and comfort. Shell material linings shall not be considered acceptable.

Retroreflective trim shall run over the bottom of the pockets so as not to interrupt the trim stripe.

\_\_\_\_\_Comply                      \_\_\_\_\_Exception

#### **AXTION® SLEEVES**

The sleeves shall be of two piece construction and contoured, having an upper and a lower sleeve. Both the under and upper sleeve shall be graded in proportion to the chest size. For unrestricted movement, on the underside of each sleeve there shall be two outward facing pleats located on the front and back portion of the sleeve on the shell and thermal liner. On the moisture barrier, the system will consist of two darts, rather than pleats, to allow added length in the under sleeve. The moisture barrier darts will be seam sealed to assure liquid resistance integrity.

The pleats shall expand in response to upper arm movement and shall fold in on themselves when the arms are at rest. This expansion shall allow for greater multi-directional mobility and flexibility in the shoulder and arm areas, with little restriction or jacket rise. Neither stove-pipe nor raglan-style sleeve designs will be considered acceptable.

\_\_\_\_\_Comply                      \_\_\_\_\_Exception

#### **SLEEVE CUFF REINFORCEMENTS**

The sleeve cuffs shall be reinforced with a layer of black Dragonhide® material.

The cuff reinforcements shall not be less than 2 inch in width and folded in half, approximately one half inside and one half outside the sleeve end for greater strength and abrasion resistance. The cuff reinforcement shall be double stitched to the sleeve end; a single row of stitching shall be considered unacceptable. This independent cuff provides an additional layer of protection as compared to a turned and stitched cuff. Jackets finished with a turned and stitched cuff do not provide the same level of abrasion resistance and will be considered unacceptable.

\_\_\_\_\_Comply                      \_\_\_\_\_Exception

## WRISTLETS / ELASTICIZED ADJUSTABLE SLEEVE WELLS

Each jacket shall be equipped with **Nomex® hand and wrist guards** (over the hand) not less than 7 inches in length and of double thickness. A separate thumbhole with an approximate diameter of 2 inches shall be recessed approximately 1 inch from the leading edge. Nomex® knit is constructed of 96% Nomex® and 4% Spandex for shape retention. The color of the wristlets shall be grey.

The wristlets shall be sewn to the end of the liner sleeves. Flame resistant neoprene coated cotton/polyester material shall be sewn to the inside of the sleeve shell approximately 5 inches from the sleeve end and extending toward the cuff forming the sleeve well. The neoprene sleeve well shall form an elasticized cuff end with an FR hook and loop fastener tape tab providing a snug fit at the wrist and covering the knit wristlet. This sleeve well configuration serves to prevent water and other hazardous elements from entering the sleeves when the arms are raised. The neoprene material shall also line the inside of the sleeve shell from the cuff to a point approximately 5 inches back, where it joins the sleeve well and is double stitched to the shell. Four Ara-shield® snap tabs will be sewn into the juncture of the sleeve well and wristlet. The tabs will be spaced equidistant from each other and shall be fitted with female snap fasteners to accommodate corresponding male snaps in the liner sleeves. One of the Ara-shield® snap tabs shall be a different color in the liner to correspond with color coded snap tabs for ease of matching the liner system to the outer shell after inspection or cleaning is completed. This configuration will ensure there is no interruption in protection between the sleeve liner and wristlet.

Comply       Exception

## LINER ELBOW THERMAL ENHANCEMENT

An additional layer of thermal liner material shall be sewn to the elbow area of the liner system for added protection at contact points and increased thermal insulation in this high compression area. The elbow thermal enhancement layers shall be sandwiched between the thermal liner and moisture barrier layers of the liner system and shall be stitched to the thermal liner layer only. Finished dimension shall be approximately 5 inches by 8 inches. All edges shall be finished by means of overedging. Raw or unfinished edges shall be considered unacceptable. Thermal scraps shall not be substituted for full-cut fabric padding.

Comply       Exception

## LINER SHOULDER AND UPPER BACK THERMAL ENHANCEMENT

A minimum of one additional layer of thermal liner material shall be used to increase thermal insulation in the upper back, front and shoulder area of the liner system. This full-cut thermal enhancement layer shall drape over the top of each shoulder extending from the collar to the sleeve/shoulder seam, down the front approximately 5 inches from the juncture of the collar down the back to a depth of approximately 5 ¾ inches to provide greater CCHR protection in this high compression area. The upper back, front and shoulder thermal enhancement layers shall be sandwiched between the thermal liner and moisture barrier layers of the liner system and shall be stitched to the thermal liner layer only. The thermal enhancement layer shall have finished edges by means of overedging. Raw or unfinished edges shall be considered unacceptable. Thermal scraps shall not be substituted for full-cut fabric padding. Smaller CCHR reinforcements shall not be considered acceptable since they provide far less area of coverage.

Comply       Exception

## RADIO POCKET

Each jacket shall have a pocket designed for the storage of a portable radio. This pocket shall be of box type construction, double stitched to the jacket and shall have one drainage eyelet in the bottom of the pocket. The pocket flap shall be constructed of two layers of outer shell material measuring approximately 3 inches longer than the depth of the pocket and ¼ inch wider than the pocket. The pocket flap shall be closed by means of FR hook and loop fastener tape. A 1½ inch by 3 inch piece of FR hook fastener tape shall be installed on the inside of the pocket flap beginning at the center of the bottom of the flap. A 1½ inch by 3 inch piece of FR loop fastener tape shall be installed horizontally on the outside of the pocket near the top center and positioned to engage the hook fastener tape. In addition, the entire inside of the pocket shall be lined with neoprene coated cotton/polyester material to ensure that the radio is protected from the elements. The impermeable barrier material shall also be sandwiched between the two layers of outer shell material in the pocket flap for added protection. The radio pocket shall measure approximately 3 inches deep by 3.5 inches wide by 9 inches high and shall be installed on the left chest.

\_\_\_\_\_Comply      \_\_\_\_\_Exception

## MICROPHONE STRAP

A strap shall be constructed to hold a microphone for a portable radio. It shall be sewn to the jacket at the ends only. The size of the microphone strap shall be 1 inch x 3 inches. The microphone strap shall be mounted above the radio pocket and shall be constructed of double layer outer shell material.

\_\_\_\_\_Comply      \_\_\_\_\_Exception

## SURVIVOR FLASHLIGHT HOLDER (OPTIONAL)

Each jacket shall be equipped with a "Survivor" flashlight holder. An inward facing safety coat hook shall be triple riveted in a vertical position to the upper chest. The inward facing coat hook will accommodate the clip portion of the flashlight. Below the coat hook will be a strap constructed of outer shell material measuring approximately 1 ¾ inches high and 9 inches wide, and will hold the barrel of the flashlight. The lower strap will be equipped with a 1 ½ inch by 2 ½ inch FR hook and loop closure at the front of the strap to facilitate easy removal of the flashlight. There shall be approximately 3 ½ inches between the upper coat hook and lower strap. The "Survivor" flashlight holder shall be sewn to the jacket on the right chest.

\_\_\_\_\_Comply      \_\_\_\_\_Exception

## EMBROIDERED AMERICAN FLAG – RIGHT SLEEVE

Each jacket shall have a Nomex® embroidered American flag that measures approximately 2½ inches high by 3½ inches wide. Per Military protocol the field of stars shall be to the top right corner for installation on the right sleeve. Flags made of fabric other than Nomex® shall be considered unacceptable.

\_\_\_\_\_Comply      \_\_\_\_\_Exception



## **PANT CONSTRUCTION**

### **BODY**

The body of the shell shall be constructed of four separate body panels consisting of two front panels and two back panels. The body panels shall be shaped so as to provide a tailored fit, thereby enhancing body movement and shall be joined together by double stitching with Nomex® thread. The body panels and seam lengths shall be graded to size to assure accurate fit in a broad range of sizes.

The front body panels will be wider than the rear body panels to provide more fullness over the knee area. This is accomplished by rolling the side leg seams (inside and outside) to the rear of the pant leg beginning at the knee. The slight taper will prevent premature wear of the side seams by pushing them back and away from the primary high abrasion areas encountered on the sides of the lower legs.

\_\_\_\_\_Comply      \_\_\_\_\_Exception

### **AXTION® SEAT**

The rise of the rear pant center back seam, including gusset if any, from the top back of the waistband to where it intersects the inside leg seams at the crotch shall exceed the rise at the front of the pant by 8 inches. The longer rear center back seam provides added length in the seat for mobility without restriction when stepping up, kneeling, or crawling and maintains proper alignment of the knee, without twisting, directly over the knee pads when kneeling and crawling.

\_\_\_\_\_Comply      \_\_\_\_\_Exception

### **LINER ACCESS OPENING (PANT)**

The thermal liner and moisture barrier layers of the pant liner system shall be constructed in such a way as to allow an access opening for interior inspection, service and replacement. The thermal liner and moisture barrier layers shall be stitched together for security and prevention of inadvertent use of one layer without the other. The liner system shall have a reinforcement of black Nomex twill material sewn to the bottom of the fly opening. This reinforcement will serve to prevent the liner from tearing in that area from the constant donning and doffing of the pants.

The liner system of the pant shall incorporate an opening along the back of the waistline for ease in inspecting the inner layers and to facilitate performing the complete Liner Inspection. The thermal liner and moisture barrier shall be individually bound with a neoprene coated bias cut tape and joined together on each of the front panels, along the waistband from the front fly opening to side seam. The back of the liner system will be allowed to remain open with two snaps on either side of the back seam to attach the moisture barrier layer to the thermal liner layer. As described previously, the pant thermal layer system snaps directly to the independent waistband by means of nine snap fasteners. There shall be no hook and loop used to close the liner access opening.

\_\_\_\_\_Comply      \_\_\_\_\_Exception

### **RETROREFLECTIVE FLUORESCENT TRIM**

The pants shall have a stripe of retroreflective fluorescent trim encircling each leg below the knee to

comply with the requirements of NFPA #1971 in 3 inch lime/yellow 3M Scotchlite™ Triple Trim (L/Y borders with silver center).  
Bottom of trim band shall be located approximately 3" above cuff.

Comply  Exception

### REINFORCED TRIM STITCHING

All reflective trim is secured to the outer shell with Nomex® thread, using a locking chainstitch protected by our exclusive TrimTrax® system. A strip of 3/32-inch strong, durable, flame resistant black Kevlar® cording provides a bed for the stitching along each edge of the retroreflective fluorescent trim surface and affords extra protection for the thread from abrasion. TrimTrax® has been proven to be 5 to 7 times more durable than single or even double rows of stitching, significantly reducing maintenance costs and providing more value and a longer service life. Two rows of stitching used to attach the trim in place of the TrimTrax® shall be considered an unacceptable alternative, since it has been proven that the two rows of stitching has insignificant impact on wear life. All trim ends shall be securely sewn into a seam for a clean finished appearance.

Comply  Exception

### ELASTICIZED WAISTBAND

The pant design facilitates the transfer of the weight of the pant to the hips instead of shoulders and suspenders. The two rear outer-shell body panels, beginning at the pant side seams, shall incorporate an elasticized waist insert, running from the side seam towards the back of the trouser for an approximate distance of 4 inches. The rear elasticized waist inserts shall be integral to the shell of the pant and the elasticized portions shall be covered by the outer shell fabric of the pant.

The waist area of the pants shall be reinforced on the inside with a separate piece of black aramid outer shell material, cut on the bias (diagonally). The reinforcement shall be folded in half, for a finished bottom edge and shall have a finished width of not less than approximately 1½ inches. The top edge of the waistband reinforcement shall be double stitched to the outer shell at the top of the pants. The lower edge of the waistband shall be unattached to the shell to accept the thermal liner and moisture barrier. The top of the thermal liner and moisture barrier shall be secured to the underside of the waistband reinforcement by means of nine snaps, spaced equidistant along the length of the waistband reinforcement. Inserting the liner system between the waistband reinforcement and outer shell serves to reduce the possibility of liner detachment while donning and doffing. The independent waistband construction affords greater comfort and fit than a turned and stitched method. Pants that do not include an independent waistband or are not cut on the bias will not provide the same amount of stretch to the garment and shall be considered unacceptable.

Comply  Exception

### EXTERNAL / INTERNAL FLY FLAP

The pants will have a vertical outside fly flap constructed of two layers of outer shell material, with a layer of moisture barrier material sandwiched between. The fly flap shall be double stitched to the left front body panel and shall measure approximately 2 ¾ inches wide, with a length graded to size based on waist measurement and reinforced with backtacks at the base. An internal fly flap constructed of one layer of outer shell material, thermal liner and specified moisture barrier, measuring approximately 2 inches wide, with a length graded to size based on waist, shall be sewn to the leading edge of the right front body panel.

The underside of the outside fly flap shall have a 1½ inch wide piece of FR loop fastener tape quadruple

stitched full length along the shell material only; stitching shall not penetrate the moisture barrier insert between the two shell fabric layers to insure greater thermal protection and reduced water penetration. A corresponding strip of 1½ inch wide piece of FR hook fastener tape shall be quadruple stitched to the outside right front body panel securing the fly in a closed position.

\_\_\_\_\_Comply          \_\_\_\_\_Exception

**BELT**

Each pant shall include an approximate 2 inch wide black aramid belt with a self locking hi-temp thermoplastic buckle serving as the exterior primary positive locking closure. Sizing adjustment shall be provided by means of the black belting which can be threaded through the male portion of the 2 inch thermoplastic buckle; this buckle shall also provide a quick-release mechanism for donning and doffing. The belt shall be attached to the two front body panels of the pant at the side seams and shall run through tunnels constructed of black 7½ osy aramid outer shell material, protecting the belt from damage. The tunnels will begin at the side seams and run to the front of the pant, terminating at the buckle closure system. A single belt loop constructed of a double layer of black 7½ osy aramid measuring approximately ½ inch by 3 inches shall be attached to the topside of the right side tunnel. The belt loop will be located approximately 2 inches from the tunnel opening for storage of the belt tab.

\_\_\_\_\_Comply          \_\_\_\_\_Exception

**AXTION® KNEE**

The outer shell of the pant legs shall be constructed with horizontal expansion pleats in the knee area with corresponding darts in the liner to provide added fullness for increased freedom of movement and maximum flexibility. The pleats shall be folded to open outwardly towards the side seams to insure no restriction of movement. The AXTION® knee will be installed proportionate to the pant inseam, in such a manner that it falls in an anatomically correct knee location.

The thermal liner shall be constructed with four darts per leg in the front of the knee. Two will be located above the knee (one on each side) and two will be located below the knee (one on each side). On the moisture barrier, the system will consist of two darts, rather than pleats, to allow added length in the under knee. The darts in the liner provide a natural bend at the knee. The darts in the liner work in conjunction with the expansion panels in the outer shell to increase freedom of movement when kneeling, crawling, climbing stairs or ladders, etc.

\_\_\_\_\_Comply          \_\_\_\_\_Exception

**LINER KNEE THERMAL ENHANCEMENT**

A minimum of one additional layer of specified thermal liner and one additional layer of moisture barrier material, measuring a minimum of 9 inches by 11 inches, will be sewn to the knee area of the liner system for added CCHR protection and increased thermal insulation in this high compression area. The knee thermal enhancement layers shall be sandwiched between the thermal liner and moisture barrier layers of the liner system and shall be stitched to the thermal liner layer only. The thermal enhancement layer shall have finished edges by means of overedging. Raw or unfinished edges shall be considered unacceptable. Thermal scraps shall not be substituted for full-cut fabric padding. Smaller CCHR reinforcements shall not be considered acceptable since they provide far less area of coverage.

\_\_\_\_\_Comply          \_\_\_\_\_Exception

**KNEE REINFORCEMENTS**

The knee area shall be reinforced with a layer of black Dragonhide® material.

The knee reinforcement shall be centered on the leg to insure proper coverage when bending, kneeling and crawling. The knee reinforcements shall measure 9 inches wide by 12 inches high and shall be double stitched to the outside of the outer shell in the knee area for greater strength and abrasion resistance. The knee reinforcement specified shall be removable without opening up any seams of the outer shell of the pant. The knee reinforcement specified shall be removable for replacement without opening Major A seams of the outer shell of the pant.

\_\_\_\_\_Comply                      \_\_\_\_\_Exception

#### **PADDING UNDER KNEE REINFORCEMENTS**

Padding for the knees shall be accomplished with one layer of **Silizone®** foam, sandwiched between the thermal liner and moisture barrier.

\_\_\_\_\_Comply                      \_\_\_\_\_Exception

#### **EXPANSION (BELLOWS) POCKETS**

An expansion pocket, measuring approximately 2 inches deep by 10 inches wide by 10 inches high shall be double stitched to the side of each leg straddling the outseam above the knee and positioned to provide accessibility. *The lower half of each expansion pocket shall be reinforced with an additional layer of Kevlar® twill material on the inside.* Two rust resistant metal drain eyelets shall be installed on the underside of each expansion pocket to facilitate drainage of water. The pocket flaps shall be rectangular in shape, constructed of two layers of outer shell material and shall measure 3 inches deeper than the pocket expansion and ½ inch wider than the pocket. The upper pocket corners shall be reinforced with proven bartacks and pocket flaps shall be reinforced with bartacks. The pocket flaps shall be closed by means of FR hook and loop fastener tape. Two pieces of 1½ inch by 3 inch FR hook fastener tape shall be installed vertically on the inside of each pocket flap (one piece on each end). Two corresponding pieces of 1½ inch by 3 inch FR loop fastener tape shall be installed horizontally on the outside of each pocket near the top (one piece on each end) and positioned to engage the hook fastener tape.

\_\_\_\_\_Comply                      \_\_\_\_\_Exception

#### **PANT CUFF REINFORCEMENTS**

The cuff area of the pants shall be reinforced with a layer of black Dragonhide® material

The cuff reinforcement shall not be less than 2 inch in width and folded in half, approximately one half inside and one half outside the end of the legs for greater strength and abrasion resistance. The cuff reinforcement shall be double stitched to the outer shell for a minimum of two rows of stitching. This independent cuff provides an additional layer of protection over a hemmed cuff. Pants that are turned and stitched at the cuff, as opposed to an independent cuff reinforcement, do not provide the same level of abrasion resistance and shall be considered unacceptable.

\_\_\_\_\_Comply                      \_\_\_\_\_Exception

#### **PADDED RIP-CORD SUSPENDERS & ATTACHMENT**

On the inside waistband shall be attachments for the standard "H" style "Padded Rip-Cord" suspenders. There will be four attachments total – 2 front, 2 back. The suspender attachments shall be constructed of a double layer of black aramid measuring approximately ½ inch wide by 3-inches long. They shall be sewn in a horizontal position on the ends only to form a loop. The appearance will be much like a horizontal belt loop to capture the suspender ends.

A pair of "H" style "Padded Rip-Cord" suspenders shall be specially configured for use with the pants. The main body of the suspenders shall be constructed of 2 inch wide black webbing straps. The suspenders shall run over each shoulder to a point approximately shoulder blade high on the back, where they shall be joined by a 2 inch wide horizontal piece of webbing measuring approximately 8-inches long, forming the "H". This shall prevent the suspenders from slipping off the shoulders. The shoulder area of the suspenders will be padded for comfort by fully encasing the webbing with aramid batting and wrap-around black aramid.

The rear ends of the suspenders will be sewn to 2-inch wide elasticized webbing extensions measuring approximately 8-inches in length and terminating with thermoplastic loops. The forward ends of the suspender straps shall be equipped with specially configured black powder coat non-slip metal slides with teeth. Through the metal slides will be the 9 inch lengths of strap webbing "Rip-Cords" terminating with thermoplastic loops on each end. Pulling on the "Rip-Cords" shall allow for quick adjustment of the suspenders.

Threaded through and attached to the thermoplastic loops on the forward and rear ends of the suspenders will be black aramid suspender attachments incorporating two snap fasteners. The aramid suspender attachments are to be threaded through the suspender attachment loops on the inside waistband of the pants. The aramid suspender attachments will then fold over and attach to themselves securing the suspender to the pants.

\_\_\_\_\_ Comply                      \_\_\_\_\_ Exception

#### **REVERSE BOOT CUT**

The outer shell pant leg cuffs will be constructed such that the back of the leg is approximately 1 inch shorter than the front. The liner will also have a reverse boot cut at the rear of the cuff and a concave cut at the front to keep the liner from hanging below the shell. This construction feature will minimize the chance of premature wear of the cuffs and injuries due to falls as a result of "walking" on the pant cuffs. Pants that have "cut-outs" in the back panel rather than a contoured boot cut shall be considered unacceptable.

\_\_\_\_\_ Comply                      \_\_\_\_\_ Exception

#### **THIRD PARTY TESTING AND LISTING PROGRAM**

All components used in the construction of these garments shall be tested for compliance to NFPA Standard #1971 by Underwriters Laboratories (UL). Underwriters Laboratories shall certify and list compliance to that standard. Such certification shall be denoted by the Underwriters Laboratories certification mark.

\_\_\_\_\_ Comply                      \_\_\_\_\_ Exception

#### **LABELS**

Appropriate warning label(s) shall be permanently affixed to each garment. Additionally, the NFPA certification label shall include the following information.

Compliance to NFPA Standard #1971  
Underwriters Laboratories classified mark  
Manufacturer's name  
Manufacturer's address  
Manufacturer's garment identification number  
Date of manufacture  
Size

Comply       Exception

### ISO CERTIFICATION / REGISTRATION

The protective clothing manufacturer shall be certified and registered to ISO Standard 9001 to assure a satisfactory level of quality. Indicate below whether the manufacturer is so certified and registered by checking either "Yes" or "No" in the space provided.

Yes       No

### WARRANTY:

The manufacturer shall warrant these jackets and pants to be free from defects in materials and workmanship for their serviceable life when properly used and cared for.

Comply       Exception

### HOOK AND LOOP SUPPORT PROGRAM

Support program shall cover hook or loop tape that has begun to fray or otherwise degrade from normal wear. This program shall remain in effect for a period of five years from the original date of manufacture of the garment. This support program shall cover the repair or replacement, without charge, of any hook and/or loop on the garments produced by the manufacturer providing the garments are otherwise serviceable.

This support program does NOT cover damage from fire, heat, chemicals, misuse, accident or negligence. Failure to properly care for garments will serve to void this support program.

Comply       Exception

### SIZING BY VENDOR:

Both male and female sizing samples shall be available.

Comply       Exception

### BAR-CODE/RECORD KEEPING INTERFACE

A 1 dimensional barcode, in the interleaved 2 of 5 format shall be printed on the label of each separable layer of the garment.

This barcode shall represent the serial number of the garment. The manufacturer shall be able to provide a detailed list of each asset of a drop-shipped order, and shall include the following:

- Brand
- Order Number
- Serial Number
- Style Number
- Color
- Description
- Chest/Waist Size
- Jacket/pant Length

- Sleeve Length
- Date of Manufacture
- Mark-For Data

This information shall be able to be imported into the manufacturers web-based system designed to facilitate the organization and tracking of assets in accordance with the cleaning and inspection requirements of OSHA and NFPA 1851.

\_\_\_\_\_Comply      \_\_\_\_\_Exception

**PPE RECORD KEEPING**

The manufacturer shall make available and no-charge, a password protected data based backed website that does not care whose brand of PPE assets are being recorded. The website shall have the functionality to allow the manufacturer to import all of the pertinent data into the department's account so that the initial data entry by fire department personnel is eliminated.

The website shall allow for the department to use a barcode scanner, if desired, to scan the Interleaved 2 of 5 barcode found in the gear by going to the Search the Serial Number page in PPE record keeping program, and scanning the asset's barcoded serial number.

\_\_\_\_\_Comply      \_\_\_\_\_Exception

**EXCEPTIONS TO SPECIFICATIONS**

Any and all exceptions to the above specifications must be clearly stated for each heading. Use additional pages for exceptions, if necessary.

**COUNTRY OF ORIGIN**

Jackets and Pants shall be manufactured in the United States.

NOTICE TO BIDDER:

Read all specifications listed.

Price order as listed within specifications.

List all warranties.

Bidder must sell to departments regardless of number of suits ordered or give written letter to department why order cannot be made.

Final sell will be after department has inspected suits for workmanship, spelling and fit.



FIRE HOSE

ITEM

PRICE

EPDM RUBBER LINED DOUBLE JACKET

1 1/2"

\_\_\_\_\_

1 3/4"

\_\_\_\_\_

2"

\_\_\_\_\_

2 1/2"

\_\_\_\_\_

3"

\_\_\_\_\_

FIRE DEPARTMENT NAME

\_\_\_\_\_

SERIAL NUMBER STAMPED

\_\_\_\_\_

LDH SUPPLY LINE

4"

\_\_\_\_\_

5"

\_\_\_\_\_

6"

\_\_\_\_\_

STENCILING

\_\_\_\_\_

SMALL DIAMETER SUPPLY LINE RUBBER COVERED

1"

\_\_\_\_\_

1 1/2"

\_\_\_\_\_

1 3/4"

\_\_\_\_\_

2"

\_\_\_\_\_

2 1/2"

\_\_\_\_\_

3"

\_\_\_\_\_

FIRE DEPARTMENT NAME

\_\_\_\_\_

COUPLING SERIAL NUMBER STAMPED

\_\_\_\_\_

FIRE ENGINE BOOSTER HOSE

3/4"

\_\_\_\_\_

1"

\_\_\_\_\_

# Pittsburg County Fire Hose Specification

## For EPDM Rubber Lined Double Jacket Fire Hose

**Quality:** The fire hose to be supplied under this specification is a premium quality, double, jacket municipal fire hose. All materials used in the fabrication of the hose shall be of the best quality commercially available.

### TECHNICAL INFORMATION

The hose must meet all the requirements of NFPA 1961, Standard on Fire Hose (2007 Edition). The manufacturer of the hose shall be ISO 9001-2008 quality certified.

**Jackets:** The jackets shall be evenly and firmly woven, free from unsightly defects, dirt, knots, lumps, irregularities or twist that might affect the serviceability of the finished product. Each jacket shall be seamless and shall have polyester filler yarns woven around the hose throughout its length, with the warp ends interwoven with the warp yarn covering the filler yarns.

Warp ends of both the inner and outer jackets shall be spun staple polyester developed, designed and processed for the fire hose jacket warp yarns. The use of nylon, polyamide, or rayon yarns used in the warp or filler direction is not allowed. The use of any warp yarns of filament or entangled construction is expressly forbidden.

Filler yarns of both the inner and outer jackets shall be high-tenacity filament polyester developed, designed, and processed for the fire hose jacket filler yarns. These filament polyester yarns shall be free from defects that are unsightly or may affect the serviceability of the finished hose. The staple polyester warp ends must completely cover and protect the filament polyester filler yarns.

The inner jacket shall be of reverse twill weave, to allow for a smooth waterway.

**Wear Guard:** When specified, is a treatment for maximum abrasion resistance. This is a specially developed impregnated coating with a built in flame retardant. Wear Guard is applied to the outer jacket by a mechanical process which increases abrasion resistance by 6 times over standard impregnation. It greatly increases heat and flame resistance, almost eliminates water pickup and adds superb resistance to petro chemicals and displays extreme resistance to bacterial and mildew growth. Colors available: Yellow, Orange, Blue, Forest Green, Tan and Black

**Lining:** The rubber shall be a single ply extrusion of EPDM polymer which naturally resists ozone and oxidation. Styrene Butadiene Rubber (SBR) which is not a natural resistor is Not Acceptable, Thermoplastic liners such as polyurethane is also Not Acceptable. The surface must be smooth and free from corrugations. The lining thickness shall be tightly controlled to reduce weight and kink radius.

<b>Thickness:</b>	1½", 1¾", 2" & 2½":	0.034 to 0.046"	3":	0.042 to 0.046"
	<b>Tensile Strength:</b>	1600 psi minimum		

**Elongation:** 500% minimum

**Ozone Resistance:** Lining specimens shall be subjected to ASTM D 1149-91, "Standard Test Method for Rubber Deterioration- Surface Ozone Cracking in a Chamber". Specimens shall be prepared in accordance with ASTM D 518-86, "Standard Test Method for Rubber Deterioration- Surface Cracking" Procedure C, and shall be elongated 15%. Ozone concentration shall be 100+/-5 parts per hundred million by volume. Temperature shall be 40.0° +/-1.0°C (104°F). Time shall be 100 hours. There shall be no appearance of cracking or crazing when viewed under a 7- power magnifying glass at any time during or at the end of the 100 hour exposure.

an overlap is not acceptable. The adhesion shall be such that the rate of separation of a 1½" strip of lining, transversely cut, shall not be greater than 1" per minute under a weight of 18 lbs. No Exceptions. Thickness of liner and adhesive shall not exceed 0.052" for 1½" through 2½" hose, and 0.062" for 3" hose.

**Low Temperature Flexibility:** The hose shall be capable of performing in sub-zero conditions. A 3-foot section of hose shall be exposed to a temperature of -54°+ / - 2°C (-65°+ / -3° F) for a period of 24 hours. At the end of the exposure period, and while maintained at the -55°C exposure temperature, the hose shall be rapidly bent 180° double on itself, first one way and then the other. There shall be no cracking or breaking of the jacket or liner. Leakage shall be cause for rejection.

**Hydrostatic Test:**

Hydrostatic tests shall be conducted on hose equipped with the couplings to be delivered in accordance with NFPA 1961. Each length of hose is to be subjected to a hydrostatic proof pressure of 800 psi for at least 15 seconds and not more than 1 minute. Higher test pressures which may weaken the hose are expressly forbidden.

**Twist:** The hose shall not twist more than 4-1/4 turns per 50 ft. for the 1½", 1¾", and 2" sizes, and not more than 1 ¾ turns per 50 ft. for the 2½" and 3" sizes under a pressure of 800 psi. No final twist in a direction to loosen the couplings shall be permitted.

**Warp:** The hose shall not warp more than 20" from a straight line drawn from center to center of the fittings at the ends of the hose, and the hose shall not rise from the table.

**Expansion:** The expansion in circumference of the hose between 10 and 800 psi shall not exceed 8%.

**Elongation:** The elongation between 10 and 800 psi shall not exceed 8% for the 1½, 1¾, 2" and 2½" sizes, and shall not exceed 10% for the 3" size.

**Burst Test:** A 3-foot sample of hose chosen at random shall stand without failure a hydrostatic pressure of 1200 psi while lying straight or curved on a 27" radius. Retention of the coupling to the hose shall equal or exceed the burst pressure.

**Kink Test:** A full length shall withstand, while kinked, without failure, a hydrostatic pressure of 600 psi.

**Diameter:** The hose shall have an internal diameter of not less than the trade size of the hose, except that internal diameter of the 2½" hose shall not be less than 2-9/16".

**Method of Testing:** All measurements and tests to determine compliance of the fire hose with the specified requirements shall be made in accordance with ASTM D 380-87, "Standard Test Methods for Rubber Hose", except otherwise specified. All tests shall be conducted at the point of manufacture, or at a laboratory equipped for such testing. All tests shall be performed as specified in NFPA 1961 (Current Edition). Hydrostatic tests shall be conducted under controlled conditions employing equipment capable of supplying a uniform pressure.

**Warranty:** The fire hose furnished under the terms of this proposal has a potential service life of ten years, barring mistreatment or accidental damage that would render the hose unfit for service. The manufacturer warrants the hose to be free from defects in materials and workmanship for a period of ten years. This warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship.

Hose Size	Proof Test Pressure (psi)	Service Test Pressure (psi)	Burst Test Pressure (psi)	Kink Test Pressure (psi)	Coupling Bowl Size (in.)	Weight per 50' Uncoupled	Coil diameter Per 50'
1"	800	400	1200	600	1-3/8"	14 lbs	18"
1 ½"	800	400	1200	600	1-15/16"	17 lbs	18"
1 ¾"	800	400	1200	600	2-1/8"	19 lbs	18"
2"	800	400	1200	600	3"	25 lbs	18"
2 ½"	800	400	1200	600	3"	28 lbs	21"
3"	800	400	1200	600	3-9/16"	38 lbs	21"

# Pittsburg County Fire Hose Specification

## For EPDM Rubber Lined Double Jacket Fire Hose

Options:

- A. Size of Hose: 1" 1 ½" 1 ¾" 2" 2 ½" 3"
- B. Color of Hose: Yellow, Red, Orange, Blue, Dark Green, Tan, and White
- C. Threads: NST or NPT
- D. Fire Department Name or Initials
- E. Coupling Serial Number Stamped
- F. List Length of Hose Available

Please list cost of options if any.

# Pittsburg County Fire Hose Specification

## LDH SUPPLY LINE

**HOSE CONSTRUCTION:** Hose meeting specifications shall be made from 100% high tenacity synthetic yarn, circularly woven and completely protected and locked-in by a tough, highly resistant synthetic, extruded-through-the-weave nitrile rubber, forming a unitized construction without use glues or adhesives of any type. Hose meets all requirements of NFPA 1961.

**LINING PROPERTIES:** Ultimate tensile strength of the lining and cover shall not be less than 1750 PSI.

**ABRASION RESISTANCE:** Hose shall withstand 30,000 cycles on the Taber Abrasion Machine. Suppliers must provide written warranties that this hose has meet a minimum of 30,000 cycles or other abrasion tests such as DIN, UL will be supplied upon request.

**COLD RESISTANCE:** Hose shall have a capability of use down to -35 degrees F.

**HEAT RESISTANCE:** When subjected to a static pressure of 100 PSI, hose shall be capable of withstanding a surface temperature of 1200 degrees F for minimum of two minutes without rupture or damage to the synthetic reinforcement.

**OZONE RESISTANCE:** Hose shall show no signs of cracking to the lining or cover when tested in accordance to ASTM D518 Procedure B, 100pphm at 118 degrees F for 70 hours.

**CHEMICAL RESISTANCE:** Exposure to sea water and contamination by most chemical substances, hydrocarbons, oils, alkalis, acids, and greases must have no effect on the short or long term performance of the hose. A chemical resistance chart will be provided along with chemical resistance data upon request to the fire department.

**Color:** Color shall be of high visibility yellow, red or orange. Other colors may be available upon request by the fire department.

**COUPLINGS:** As required by the purchaser, forged aluminum or cast aluminum Storz are standard. Extruded aluminum Storz and threaded couplings should be available. Storz couplings with plastic tail pieces are unacceptable.

**Performance characteristics:**

1. **Hydrostatic Pressure Test:** The hose shall comply with NFPA Standard: NFPA 1961 2007 Edition.
2. **LOW FRICTION LOSS:** Hose must provide maximum flow with minimum friction loss.

**QUALITY STANDARD:** Hose must be designed and tested to meet NFPA 1961 2007 Edition standard on fire hose,

**STENCILING:** Custom stenciling shall be offered for department identification and sequential numerical coding in 3 inch letters and numbers.

**Warranty:** The manufacturer warrants the hose to be free from defects in materials and workmanship for a period of ten years. This warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship.

**LARGE DIAMETER HOSE (LDH) PERFORMANCE AND WEIGHT CHART**

HOSE SIZE	PROOF TEST PRESSURE (psi)	SERVICE TEST PRESSURE (psi)	BURST TEST PRESSURE (psi)	COUPLING BOWL SIZE (in.)	WEIGHT PER FOOT UNCOUPLED (lbs)
4"	500	250	750	4-5/16"	0.7
5"	450	225	675	5-5/16"	1.0
6"	300	150	500	6-3/8"	1.35

LARGE DIAMETER SUPPLY LINE

SIZE OF HOSE TO BE BID: 4" 5" AND 6"

# PITTSBURG COUNTY FIRE HOSE SPECIFICATION

## FOR SMALL DIAMETER SUPPLY LINE

### RUBBER COVERED

1. **HOSE CONSTRUCTION**

Hose meeting specification shall be made from 100% high tenacity synthetic yarn, circularly woven and completely protected and locked-in by a tough, highly resistant synthetic, extruded-through-the-weave nitrile rubber, forming a unitized construction without use of glues or adhesives of any type. Hose meets all requirements of NFPA 1961.

2. **LINING PROPERTIES**

Ultimate Tensile Strength of the lining and cover shall not be less than 1750 PSI. Ultimate Elongation shall be 500 percent minimum. Accelerated Aging Test consists of the tensile strength and ultimate elongation of the vulcanized rubber compound which has been subjected to the action of oxygen at a pressure of 300 PSI and a temperature of 158 degrees for a period of 96 hours while retaining 60 percent of its originally stated properties.

3. **ABRASION RESISTANCE**

Hose shall withstand 30,000 cycles on the Taber Abrasion Machine (H-22 Wheel: 1 kg). Firequip Inc. will provide written warranties that the Hydro Flow SDH-PF Supply Line meets a minimum of 30,000 cycles. Other abrasion test results (DIN, UL, etc.) can be supplied on request.

4. **COLD RESISTANCE**

Hose shall have a capability of use down to -35 degrees F. Hose shall have no apparent damage to cover, reinforcement or lining when subjected to the following cold bending test. A 50 ft. length of dry hose is to firmly coiled and placed in a cold box at -35 degrees F for duration of 24 hours. Immediately after removal of the hose from the box, hose should be uncoiled and laid out by the operator. Following this procedure, the hose shall not leak nor show any damage to the reinforcement when subjected to the hydrostatic acceptance test pressures.

5. **HEAT RESISTANCE**

When subjected to a static pressure of 100 PSI, hose shall be capable of withstanding a surface temperature of 1200 degrees F for minimum of two minutes without rupture or damage to the synthetic reinforcement.

6. **OZONE RESISTANCE**

Hose shall show no visible signs of cracking to the lining or cover when tested in accordance to ASTM D518 Procedure B, 100pphm at 118 degrees F for 70 hours.

7. **CHEMICAL RESISTANCE:**

Exposure to sea water and contamination by most chemical substances, hydrocarbons, oils, alkalis, acids, and greases must have no effect on the short or long term performance of the hose. A chemical resistance chart is available and Firequip Inc. will provide specific chemical resistance data on request for unique applications.



8. **COLOR**  
Color shall be of HIGH VISIBILITY yellow or red. Other colors are available upon request.
9. **COUPLINGS**  
As required by purchaser with expansion ring threaded couplings as standard.
10. **PERFORMANCE CHARACTERISTICS**
- 10.1 **Hydrostatic Pressure Test:** The hose shall comply with the National Fire Protection Association Standard: NFPA 1961 Current Edition.
- 10.2 **Low Friction Loss:** The ultra-smooth lining and resilient expansion qualities provide maximum flow with minimum friction loss.
- 10.3 **Ease of Handling:** Unique construction provides a very flexible, kink resistant, maneuverable hose which packs tightly in hose bed.
11. **QUALITY ASSURANCE PROVISIONS**
- 11.1 **Inspection:** Purchasing Agent shall reserve the right to visit the manufacturing plant during each phase of the production operations. Hose construction, lining and cover properties, safety factors and performance characteristics will all be taken into consideration, insuring that the hose to be supplied is made exactly to these specifications.
- 11.2 **Quality Standard:** Hose is designed and tested to meet NFPA 1961 (current edition) Standards on Fire Hose. The manufacturer shall be ISO 9001-2008 quality certified. The fire hose furnished under the terms of this proposal has a potential service life of ten years, barring mistreatment or accidental damage that would render the hose unfit for service.
12. **WARRANTY:**  
The manufacturer warrants the hose to be free from defects in materials and workmanship for a period of ten years. This warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship.

## SMALL DIAMETER HOSE

### PERFORMANCE AND WEIGHT CHART

HOSE SIZE	PROOF TEST PRESSURE (psi)	SERVICE TEST PRESSURE (psi)	BURST TEST PRESSURE (psi)	COUPLING ROWL SIZE (in.)	WEIGHT PER 50' UNCLD (lbs)
1"	600	300	900	1-3/16"	9
1 1/2"	600	300	900	1-15/16"	11
1 3/4"	600	300	900	2-1/16"	13
2"	600	300	900	2-5/16"	15
2 1/2"	600	300	900	2-7/8"	23
3"	600	300	900	3-5/16"	25

Pittsburg County Fire Hose Specification  
For SMALL DIAMETER SUPPLY LINE  
RUBBER COVERED Fire Hose

Options:

- A. Size of Hose: 1" 1 ½" 1 ¾" 2" 2 ½" 3"
- B. Color of Hose: High Visibility Yellow, Red, with other colors available upon request.
- C. Threads: NH or NPSH
- D. Fire Department Name or Initials
- E. Coupling Serial Number Stamped
- F. List Length of Hose Available

Please list, cost of options if any.

# PITTSBURG COUNTY FIRE HOSE SPECIFICATION

## FOR FIRE ENGINE BOOSTER HOSE

PRESSURE CONTRACTION and ELONGATION-When pressurized, a poorly constructed hose may contract or elongate. This can endanger a firefighter in a high place or in a tight spot. It can also damage equipment such as hose reels which can actually be crushed. Fire hose should be made with precision reinforcement angles to control change under pressure to avoid these problems.

DURABLE BRIGHT RED COVER-Cover must look good and last longer for overall cost effectiveness and reliability. Compounding resists abrasion, gouging, ultra-violet and ozone aging.

LONG LENGTHS-Hose can be produced in continuous lengths of 200 feet for 1 inch and 300 feet for ¾ inch. This reduces the number of couplings connections required, reducing cost and increasing hose integrity. Shorter hose lengths may be required as specified by the fire department.

SAFETY FACTOR-A 4:1 safety factor shall be required for safety and reliability. This hose must be rated for 3200 minimum burst pressure.

UL 92 DESIGN AND PERFORMANCE CRITERIA- Booster hose must meet or exceed the requirements listed in UL 92 specification for 800 psi booster hose.

APPLICABLE SPECIFICATIONS: Unless otherwise specifically designated in this specification, all measurements and test necessary to determine compliance of the hose with the specified requirements shall be made in accordance with Standard Specifications for Testing Rubber Hose, AZTM, D-380-81.

### TYPES and SIZES:

1. The type of yarn shall be four spirals of continuous filament aramid yarn.
2. The hose size shall be 1 inch or ¾ inch nominal diameter.

4. **TUBE CONSTRUCTION DETAIL:**

- a. The liner tube shall be of synthetic rubber.
- b. The tube shall be extruded of uniform thickness throughout its length, the waterway of the tube shall be smooth and free from imperfections.
- c. The thickness of the tube shall be not less than .060 inches.
- d. The adhesion between the layer and reinforcement between tube and reinforcement, or between the cover and reinforcement shall be such that a weight of 10 pounds suspended from a ring specimen 1" wide will cause separation at a rate not greater than 1 inch per minute.
- e. When tested within 50 days from date shipment is received, a section of the liner tube shall comply with the following requirements. The test specimen shall be cut along the hose axis.
  - 1. Tensile strength, minimum \_\_\_\_\_ 1000 PSI
  - 2. Elongation, minimum \_\_\_\_\_ 250%
  - 3. Accelerated Air-Oven Aging (70 hours at 212 degrees Fahrenheit)
    - Maximum Tensile Loss \_\_\_\_\_ 20%
    - Maximum Elongation Loss \_\_\_\_\_ 20%

5. **REINFORCEMENT DETAIL:**

- a. Reinforcement shall consist of four spirals of continuous filament aramid yarn.
- b. The reinforcement shall be evenly applied, free from defects in material and workmanship that are unsightly or may affect the serviceability of the finished hose.

6. **FINISHED HOSE:**

- a. The internal diameter of 1" hose shall be 1 inch  $\pm$  3/64" and 3/4" hose shall be 3/4"  $\pm$  3/64".
- b. The outside diameter of the hose shall be 1.5 inches  $\pm$  1/16" and 3/4" hose shall be 1-3/16".
- c. Each piece of hose of nominal 50 foot length shall be supplied in such additional length as will permit the attachment of coupling fittings and still provide a minimum of 50 feet of hose, from back of couplings, when measured under 10 PSI water pressure.
- d. The weight of 50 feet of 1" hose, untreated, without couplings is approximately 30 pounds. The weight of a 100 foot hose without couplings is about 60 lbs, and 50 ft of 3/4" hose is 21 lbs, and 100 ft is 42 lbs.
- e. An 18 inch length, while lying flat and straight shall not burst under 3200 PSI.
- f. Each length of hose shall withstand hydraulic test pressure of not less than 1600 PSI for one minute.
- g. The elongation between 10 and 800 PSI shall not exceed 6%.
- h. Twist of the hose in direction to loosen couplings, between 10 and 800 PSI shall not exceed 7° per foot.

7. **COUPLINGS:**

- a. Two piece reattachable or permanent crimped swage couplings can be used.

8. **WARRANTY:**

The manufacturer warrants the hose to be free from defects in materials and workmanship for a period of five years. This warranty shall provide for the repair or replacement of hose and couplings proven to have failed due to faulty material or workmanship.

**FIRE ENGINE BOOSTER HOSE PERFORMANCE AND WEIGHT CHART**

Hose Size	Working Pressure (psi)	Burst Test Pressure (psi)	Coupling Bow Size (in)	Weight per 50 Uncoupled	Weight per 100 Uncoupled
3/4"	800	3200	1-1/4"	21 lbs	42 lbs
1"	800	3200	1-1/2"	30 lbs	60 lbs
1-1/2"	200	600	2"	50 lbs	100 lbs

# Pittsburg County Fire Hose Specification

## For FIRE ENGINE BOOSTER Hose

Options:

- A. Size of Hose:  $\frac{3}{4}$ " 1"
- B. Color of Hose: Red,
- C. Threads: NH
- D. List Length of Hose Available

Please list, cost of options if any.

WILDLAND GEAR

<u>ITEM</u>	<u>PRICE</u>
Nomex 7.5oz Coverall	_____
Department Name on Shoulder	_____
Indura Double Duty Wildland Pant	_____
<u>Two Piece Wildland 9oz Suit</u>	
Indura 9oz Coat	_____
Department Name on Shoulder	_____
Indura 9oz Pant	_____
Wildland Suspenders	_____
<u>Two Piece Wildland 7.0 oz Suit</u>	
Advance 7.0 oz Coat	_____
Department Name on Shoulder	_____
Advance 7.0 oz Pant	_____
Wildland Suspenders	_____
<u>Two Piece Wildland 7.5 oz Suit</u>	
Nomex 7.5 oz Coat	_____
Department Name on Shoulder	_____
Nomex 7.5 oz Pant	_____
Wildland Suspenders	_____
<u>Two Piece Wildland 6.0 oz Suit</u>	
Nomex 6.0 oz Coat	_____
Department Name on Shoulder	_____
Nomex 6.0 oz Pant	_____
Wildland Suspenders	_____

WILDLAND GEAR

ITEM

PRICE

Nomex 9.0oz Coverall

\_\_\_\_\_

Department Name on Shoulder

\_\_\_\_\_

# Pittsburg County Wildland Suit

The one piece wildland coverall

Specification for yellow 7.5 oz Indura Coverall

1. Throat tab.
2. Inner zipper, outer hook and loop closure.
3. Adjustable Velcro closure on sleeves.
4. Two utility loops.
5. 9" Radio pocket on left chest with mic clip.
6. Hook and loop adjustable cuffs.
7. Two full bellow cargo pockets on legs.
8. NFPA Lime Yellow/Silver 2" Scotchlite trim on leg and arm cuffs
9. Elastic at waistband.
10. Reinforced elbows and knees.
11. Breast pocket.
12. Zippered leg opening
9. Must provide sizing chart.
10. Provide the following sizes: x-small small, medium, large, x-large, 2x-large, 3x-large and 4x- large

## Options:

1. Department name on shoulders



# Pittsburg County Wildland Suit

## Double Duty Wildland Pant

### Specification for Yellow Indura or Green Indura pant

1. Signature relaxed fit for maximum mobility and comfort.
2. Rear of waistband must be elasticized for maximum freedom of movement and comfort.
3. Oversized double needle top stitched bellowed cargo pockets on thighs must expand to give plenty of storage for firefighting accessories and secure with hook and loop closures.
4. Front slash pockets with extra deep bags and contoured to keep contents from falling out of gear.
5. Two large rear double needle top stitched patch pockets with hook and loop flap closures.
6. Corrosion-resistance brass snap at waist.
7. Double reinforced crotch panel to extend wear life.
8. Hook and loop ankle straps backed with self-fabric to adjust close through metal box ring take up.
9. Leg outseams to be sewn with five-thread safety stitch then top stitched with a double-needle lockstitch.
10. All points of stress must be bartacked.
11. Must meet or exceed NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting and NFPA 1975 for Station Wear.
12. Must provide sizing chart.
13. Provide the following sizes: small, medium, large, x-large, 2x-large, and 3x-large

# Pittsburg County Wildland Suit

## Two Piece

The two piece wildland suit shall consist of a coat and pant.

### Specification for yellow 9 oz Indura Coat

1. Wide collar with throat tab.
2. Zipper/Velcro double front closure.
3. Adjustable Velcro closure on sleeves.
4. Two ply double stitched cuff reinforcement.
5. Radio pocket.
6. Glove strap.
7. Pair of 10" x 10" pockets with Velcro closure.
8. NFPA Lime Yellow/Silver 2" Scotchlite trim.
9. Must provide sizing chart.
10. Provide the following sizes: small, medium, large, x-large, 2x-large, 3x-large and 4x- large

### Specification for yellow 9 oz Indura Pant

1. Two adjustable take up straps.
2. Zipper/Snap fly closure.
3. NFPA Lime Yellow/Silver 2" Scotchlite trim.
4. Two ply double stitched cuff reinforcement.
5. Adjustable Velcro closure on pant leg bottom.
6. Leather knee reinforcement.
7. Must provide sizing chart.
8. Provide the following sizes: small, medium, large, x-large, 2x-large, 3x-large and 4x-large

Must list price per size.

Options:

1. Department name across shoulders
2. Wildland suspenders with pants

# PITTSBURG COUNTY WILDLAND SUIT

## TWO PIECE

THE TWO PIECE WILDLAND SUIT SHALL CONSIST OF A COAT AND PANT.

### SPECIFICATIONS FOR YELLOW 7 oz COAT

1. Alpine style collar that can be folded down to allow for venting or zipped up to provide for additional protection from heat and flame.
2. Seamless shoulders for maximum mobility.
3. Double pull zipper with Nomex tape with storm-flap.
4. Radio pocket with hook/loop flap closure and microphone holder.
5. Cell phone pocket with hook and loop flap closure and d-ring for hanging of gloves or gear.
6. Radial sleeve design for full arm movement and no hike fit.
7. Articulated elbows for freedom of movement.
8. Adjustable cuffs with hook/loop tab closures and gusset with secondary hook/loop closure.
9. Large cargo hip pockets with hook/loop flap closure. Right pocket should have a nickel plated swivel snap hoop attached to fabric strap.
10. 3M Scotchlite flame resistant retro reflective lime/yellow two inch wide triple trim sewn around arms, bottom and across shoulders in back.
11. ISO registered and UL certified.
12. Must provide sizing chart.
13. Provide the following sizes: small, medium, large, X-large, 2x-large and 3x-large.

Must list price per size.

Options:

1. Department name across shoulders.

## SPECIFICATIONS FOR YELLOW 7 oz PANT

1. Self material waistband with elasticized back with belt loops to accommodate a two inch wide belt.
2. Corrosion- resistant carbon steel ladder buckle at waist with self fabric take up straps.
3. Corrosion-resistant brass snap at waist should be fabric backed.
4. Zipper with Nomex tape front fly closure double needle lockstitch for extra strength.
5. Welt style rear pockets.
6. Front slash style pockets with extra deep contoured pocket bags with spade style flaps and hook/loop closures.
7. Zippers with Nomex tape at side access and lockstitch set.
8. Over-sized mid-thigh cargo pockets with hook/loop flap closure expandable for storage capacity.
9. Leg out seams and seat seams should be sewn with a five-thread safety stitch and then top stitched with double-needle lockstitch.
10. Articulated knees for freedom of movement.
11. Gusseted leg with multiple cuff closure system with 14 inch zippers with Nomex tape, elastic and hook/loop tap closures. Cuffs should also be partially elasticized.
12. 3M Scotchlite flame resistant retro reflective lime/yellow two inch wide triple trim sewn around legs knees and cuffs.
13. ISO registered and UL certified.
14. Must provide sizing chart.
15. Provide the following sizes: small, medium, large, x-large, 2x-large and 3x-large.

Must list price per size.

Options:

1. Wildland suspenders with pants.

# Pittsburg County Wildland Suit

## Two Piece

The two piece wildland suit shall consist of a coat and pant.

### Specification for yellow 7.5 oz Nomex IIIA Coat

1. Full cut design
2. Full zippered front closure with #10 brass zipper
3. Capped shoulder design with built in ease for full freedom of movement
4. Gusset cuff with hook and loop closure
5. Alpine style collar, radio pocket with mic tab
6. Unidirectional front cargo pockets with concealed hand warmers.
7. Large interior storage pocket and glove hanger tab.
8. 3M Scotchlite Triple trim around base, back and around forearms.
9. Nomex thread throughout the garment
10. ISO 9001 registered and UL certified
11. Must provide sizing chart.
12. Provide the following sizes: small, medium, large, x-large, 2x-large, and 3x-large

### Specification for yellow 7.5 oz Nomex IIIA Pant

1. Full cut design.
2. Nomex zippered fly with nickel snap closure.
3. Nomex zippered side pass through pockets.
4. Double layered fabric knees.
5. Two inch elastic backband with seven large belt loops.
6. Unidirectional cargo pockets at thighs.
7. Nomex zippered leg opening for easy donning and doffing

8. Double back dee.
9. Hook and loop cuff closures for tight fit at the boot.
10. 3M Scotchlite Triple trim around calves.
11. Nomex thread throughout garment.
12. ISO 9001 registered and UL certified.
13. Must provide sizing chart.
14. Provide the following sizes: small, medium, large, x-large, 2x-large, and 3x-large

Must list price per size.

Options:

1. Department name across shoulders
2. Wildland suspenders with pants

# PITTSBURG COUNTY WILDLAND SUIT

## TWO PIECE

**THE TWO PIECE WILDLAND SUIT SHALL CONSIST OF A COAT AND PANT.**

### **SPECIFICATIONS FOR YELLOW NOMEX 6 OZ COAT**

1. Alpine style collar that can be folded down to allow for venting or zipped up to provide for additional protection from heat and flame.
2. Seamless shoulders for maximum mobility.
3. Double pull zipper with Nomex tape with storm-flap.
4. Radio pocket with hook/loop flap closure and microphone holder.
5. Cell phone pocket with the hook and loop flap closure and d-ring for hanging of gloves or gear.
6. Radial sleeve design for full arm movement and no hike fit.
7. Articulated elbows for freedom of movement.
8. Adjusted cuffs with hook/loop tab closures and gusset with secondary hook/loop closure.
9. Large cargo hip pockets with hook/loop flap closure. Right pocket should have a nickel plated swivel snap hoop attached to fabric strap.
10. 3M Scotchlite flame resistant retro reflective lime/yellow two inch wide triple trim sewn around arms, bottom and across shoulders in back.
11. ISO registered and UL certified.
12. Must provide sizing chart.
13. Provide the following sizes: small, medium, large, X-large, 2x-large and 3x-large.

**Must list price per size**

Options:

1. Department name across shoulders



## SPECIFICATIONS FOR YELLOW NOMEX 6 OZ PANT

1. Self material waistband with elasticized back with belt loops to accommodate a two inch wide belt.
2. Corrosion-resistant carbon steel ladder buckle at waist with self fabric take up straps.
3. Corrosion-resistant brass snap at waist should be fabric backed.
4. Zipper with Nomex tape front fly closure double needle lockstitch for extra strength.
5. Welt style rear pockets.
6. Front slash style pockets with extra deep contoured pocket bags with spade style flaps and hook/loop closures.
7. Zippers with Nomex tape at side access and lockstitch set.
8. Over-sized mid-thigh cargo pockets with hook/loop flap closure expandable for storage capacity.
9. Leg out seams and seat seams should be sewn with a five-thread safety stitch and then top stitched with double-needle lockstitch.
10. Articulated knees for freedom of movement.
11. Gusseted leg with multiple cuff closure system with 14 inch zippers with Nomex tape, elastic and hook/loop tap closures. Cuffs should also be partially elasticized.
12. 3M Scotchlite flame resistant retro reflective lime/yellow two inch wide triple trim sewn around legs knees and cuffs.
13. ISO registered and UL certified.
14. Must provide sizing chart.
15. Provide the following sizes: small, medium, large, X-large, 2x-large and 3x-large.

**Must list price per size.**

Options:

1. Wildland suspenders with pants.

## Pittsburg County Wildland Suit

### The one piece wildland coverall

#### Specification for yellow 9 oz Indura Coverall

1. Throat tab.
2. Inner zipper, outer hook and loop closure.
3. Adjustable Velcro closure on sleeves.
4. Two utility loops.
5. 9" Radio pocket on left chest with mic clip.
6. Hook and loop adjustable cuffs.
7. Two full bellow cargo pockets on legs.
8. NFPA Lime Yellow/Silver 2" Scotchlite trim on leg and arm cuffs.
9. Elastic at waistband.
10. Reinforced elbows and knees.
11. Breast pocket.
12. Zippered leg opening.
13. Must provide sizing chart.
14. Provide the following sizes: x-small, small, medium, large, x-large, 2x-large, 3x-large and 4x-large.

#### Options:

1. Department name on shoulders

**EQUIPMENT RENTAL**  
**BID PRICE FOR PITTSBURG COUNTY**

VENDOR: \_\_\_\_\_

**SPECIFICATIONS**  
**67 INCH SINGLE SMOOTH DRUM**  
**PADFOOT COMBINATION VIBRATORY**  
**COMPACTOR**

	COMPLY OR STATE VARIATION
<b>WEIGHTS:</b>	
GROSS WEIGHT WITH ROPS	19,000 LBS
GROSS WEIGHT ON FRONT	11,000 LBS
GROSS WEIGHT ON REAR	8,000 LBS
<b>DIMENSIONS:</b>	
OVERALL WIDTH	74 IN.
WHEELBASE:	100 IN.
ROLLING WIDTH	67 IN.
<b>SPEED:</b>	
LOW	0-3.5 MPH
HIGH	0-6.0 MPH
<b>GRADABILITY:</b>	60%
<b>FUEL CAPACITY:</b>	45 GAL.
MACHINE SHALL BE A 1999 OR NEWER MODEL:	
<b>RENTAL TERMS</b>	
WEEKLY:	
BI-WEEKLY:	
MONTHLY:	

**PRICE TO INCLUDE PICKUP AND DELIVERY AT PITTSBURG COUNTY**

**EQUIPMENT RENTAL**  
**BID PRICE FOR PITTSBURG COUNTY**

VENDOR: \_\_\_\_\_

**SPECIFICATIONS**  
**DOUBLE DRUM ROLLER WITH WET KIT**

<b>WEIGHTS:</b>		<b>COMPLY OR STATE VARIATION</b>
GROSS WEIGHT WITH ROPS	19,000 LBS	_____
GROSS WEIGHT ON FRONT	11,000 LBS	_____
GROSS WEIGHT ON REAR	8,000 LBS	_____
<b>DIMENSIONS:</b>		
OVERALL WIDTH	74 IN.	_____
WHEELBASE:	100 IN.	_____
ROLLING WIDTH	67 IN.	_____
<b>SPEED:</b>		
LOW	0-3.5 MPH	_____
HIGH	0-6.0 MPH	_____
<b>GRADABILITY:</b>	60%	_____
<b>FUEL CAPACITY:</b>	45 GAL.	_____
MACHINE SHALL BE A 1999 OR NEWER MODEL:		
<b>RENTAL TERMS</b>		_____
WEEKLY:		_____
BI-WEEKLY:		_____
MONTHLY:		_____

**PRICE TO INCLUDE PICKUP AND DELIVERY AT PITTSBURG COUNTY**

**EQUIPMENT RENTAL**  
**BID PRICE FOR PITTSBURG COUNTY**

VENDOR: \_\_\_\_\_

**SPECIFICATIONS**

**80 H.P. 4-WHEEL DRIVE BACKHOE**  
**WITH 36 INCH BACK BUCKET**

- DAILY \_\_\_\_\_
- WEEKLY \_\_\_\_\_
- BI-WEEKLY \_\_\_\_\_
- MONTHLY \_\_\_\_\_

**SPECIFICATIONS**

**70 H.P. BACKHOE**  
**WITH 550 FT. LB. CLASS ROCK HAMMER**

- DAILY \_\_\_\_\_
- WEEKLY \_\_\_\_\_
- BI-WEEKLY \_\_\_\_\_
- MONTHLY \_\_\_\_\_

**SPECIFICATIONS**

**185 VARIABLE H.P. MOTOR GRADER**  
**WITH REAR RIPPER & SCARIFIER**

- WEEKLY \_\_\_\_\_
- BI-WEEKLY \_\_\_\_\_
- MONTHLY \_\_\_\_\_

**SPECIFICATIONS**

**90 H.P. CRAWLER**  
**WITH 6 WAY DOZER**

- WEEKLY \_\_\_\_\_
- BI-WEEKLY \_\_\_\_\_
- MONTHLY \_\_\_\_\_

**SPECIFICATIONS**

**140 H.P.**  
**45,000 LB CLASS EXCAVATOR**

- WEEKLY \_\_\_\_\_
- BI-WEEKLY \_\_\_\_\_

MONTHLY \_\_\_\_\_

**SPECIFICATIONS**

**130 H.P. 25,000 LB.**

**CLASS 3 YARD LOADER**

WEEKLY \_\_\_\_\_

BI-WEEKLY \_\_\_\_\_

MONTHLY \_\_\_\_\_

**PRICE TO INCLUDE PICKUP AND DELIVERY AT PITTSBURG COUNTY**

**EQUIPMENT RENTAL**  
BID PRICE FOR PITTSBURG COUNTY  
VENDOR: \_\_\_\_\_

SPECIFICATIONS  
NINE (9) WHEEL PNEUMATIC ROLLER  
2013 OR NEWER  
1500 HOURS OR LESS

**WEIGHTS:**

MINIMUM OPERATING WEIGHT            30,000 LBS  
MINIMUM 9,000 LBS UP TO 29,000 OPERATING  
WEIGHT WITH BALLAST

COMPLY OR STATE  
VARIATION

**DIMENSIONS:**

67" ROLLING WIDTH  
115" WHEEL BASE

2 SPEED HYDROSTATIC DRIVE TRANSMISSION  
HYDROSTATIC BRAKES  
DIESEL ENGINE  
PRESSURIZED WATER SYSTEM

ALL SAFETY SYSTEMS FUNCTIONAL

**RENTAL TERMS**

WEEKLY:  
BI-WEEKLY:  
MONTHLY:

PRICE TO INCLUDE PICKUP AND DELIVERY AT PITTSBURG COUNTY

**EQUIPMENT RENTAL**  
**BID PRICE FOR PITTSBURG COUNTY**  
VENDOR: \_\_\_\_\_

SPECIFICATIONS  
17,000 LB BULLDOZER  
XL MACHINE  
2500 HOURS OR LESS

CAB/AIR	_____
6 WAY BLADE	_____
HYDROSTATIC DRIVE TRANSMISSION	_____
80 HP DIESEL ENGINE	_____
<b>RENTAL TERMS</b>	
WEEKLY:	_____
BI-WEEKLY:	_____
MONTHLY:	_____

CAB/AIR	_____
6 WAY BLADE	_____
HYDROSTATIC DRIVE TRANSMISSION	_____
90 HP DIESEL ENGINE	_____
<b>RENTAL TERMS</b>	
WEEKLY:	_____
BI-WEEKLY:	_____
MONTHLY:	_____

SPECIFICATIONS  
20,000 LB BULLDOZER  
XL MACHINE  
2500 HOURS OR LESS

COMPLY OR STATE VARIATION	_____
	_____
	_____
	_____
	_____
	_____

**PRICE TO INCLUDE PICKUP AND DELIVERY AT PITTSBURG COUNTY**



**EQUIPMENT RENTAL**  
**BID PRICE FOR PITTSBURG COUNTY**  
VENDOR: \_\_\_\_\_

SPECIFICATIONS  
ROAD BROOM  
WITH 8 FOOT BRUSH  
900 HOURS OR LESS

CAB/AIR	_____	COMPLY OR STATE
DIESEL ENGINE CAPABLE OF 70HP	_____	VARIATION
HYDROSTATIC DRIVE	_____	_____
ADJUSTABLE DOWN PRESSURE WITH FLOAT CONTROL	_____	_____
<b>RENTAL TERMS</b>	_____	_____
WEEKLY:	_____	_____
BI-WEEKLY:	_____	_____
MONTHLY:	_____	_____

**PRICE TO INCLUDE PICKUP AND DELIVERY AT PITTSBURG COUNTY**

# HAULING ROAD MATERIALS

BIDS WILL BE FOR HAULING OF ROAD MATERIALS BY  
10 WHEELER, TRI-AXLE AND 18 WHEELER LOADS

10 WHEELER                      TRI-AXLE

**PER LOADED MILE**

0-50 MILES	_____	_____
51-70 MILES	_____	_____
71-90 MILES	_____	_____
91-100 MILES	_____	_____
OVER 100	_____	_____

18 WHEELER                      18 WHEELER  
BELLY DUMP                      END DUMP

**PER LOADED MILE**

0-25 MILES	_____	_____
26-50 MILES	_____	_____
51-70 MILES	_____	_____
71-90 MILES	_____	_____
91-100 MILES	_____	_____
OVER 100	_____	_____