

BULLARD

TEST REPORT

SCOPE OF WORK

Initial Testing of [SEI Ref No.] UPH BUL 02 to NFPA 1950:2025

Standard on Personal Protective Equipment for Technical Rescue Incidents, Emergency Medical Operations, and Wildland and Urban Interface Firefighting

REPORT NUMBER

106576860CRT-001

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June 10, 2026

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TEST STANDARD

NFPA 1950:2025 *Standard on Personal Protective Equipment for Technical Rescue Incidents, Emergency Medical Operations, and Wildland and Urban Interface Firefighting*

AUTHORIZATION

SEI Submittal Reference No.: UPH BUL 02
Submittal Date: 05/06/2026
P.O.: 254266

SAMPLE INFORMATION

Dates Samples Received: May 14, 2026
Condition of Samples: Production Run
Dates of Testing: May 20-28, 2026

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PRODUCT DESCRIPTION

Product type: USAR Protective Helmets
Brand Name: Adaptix Rescue
Model Number(s): TRNXX—Rescue helmet; non-vented

Product Description:

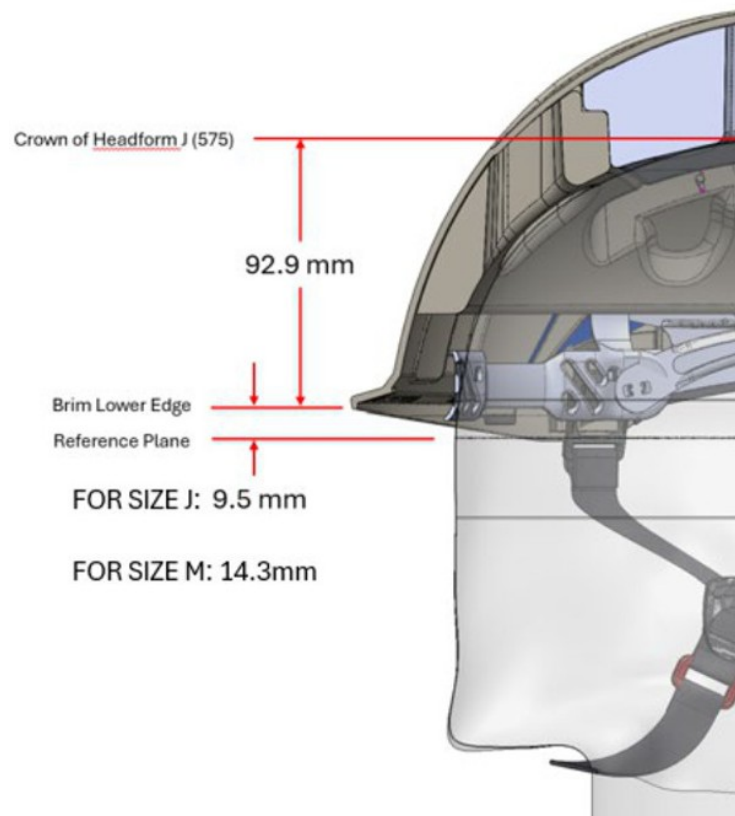
The Rescue Helmet includes the following components: Shell, Impact Liner, Crown Hammock, Chinstrap

Options: Full Brim, Hearing protectors.

Shell Colors: White, Black, Gray, Blue, Red, Green, Orange, Yellow, Hi-Viz Yellow, Hi-Viz Orange. Certified to ANSI/ISEA Z89.1 under HD BUL 23 Type II, Class E.

HPI:

Product Notes:



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SECTION 1

TEST PLAN SUMMARY

The following tests were identified by Safety Equipment Institute as applicable under the scope of this report. These tests were conducted to determine compliance with the minimum test requirements of NFPA 1950:2025 *Standard on Personal Protective Equipment for Technical Rescue Incidents, Emergency Medical Operations, and Wildland and Urban Interface Firefighting*. Details of instrument calibration are maintained in laboratory records.

SECTION	TEST	PRODUCT DESCRIPTION	COMPLIANCE
7.1.2	Design	Helmet	Compliant
8.1.2.1 & 8.1.2.1.1	Heat and Thermal Shrinkage Resistance	Helmet	Compliant
8.1.2.2	Force Transmission	Helmets	Compliant
8.1.2.3	Offset Force Transmission	Helmets	Compliant
8.1.2.4	Physical Penetration Resistance	Helmets	Compliant
8.1.2.5	Electrical Insulation	Helmets	Compliant
8.1.2.6	Suspension System Retention	Helmets	Compliant
8.1.2.7	Retention System	Helmets	Compliant
8.1.2.8	Corrosion Resistance	Helmet hardware	Compliant
8.1.2.9 & 8.1.2.9.1	Label Durability and Legibility	Helmet Labels	Compliant
8.1.2.10	Helmet Roll Off Test	Helmet	Compliant

*SEI Reference number under "Compliance" column indicates test(s) are not covered under the scope of this report and does not necessarily reflect compliance; compliance determined only for tests covered under the scope of this report.

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SECTION 2 CONCLUSION

The USAR Protective Helmets identified as Adaptix Rescue, model numbers listed above and manufactured by Bullard **has met** the above testing requirements identified by Safety Equipment Institute as applicable for minimum performance requirements defined in NFPA 1950:2025 *Standard on Personal Protective Equipment for Technical Rescue Incidents, Emergency Medical Operations, and Wildland and Urban Interface Firefighting* and authorized by submittal dated 05/06/2026 for UPH BUL 02.

**Project
Owner:**

Jennifer Breed

Title:

Technical Writer

Signature:



Date

June 10th, 2026

**Project
Reviewer:**

Matthew Stevens

Title:

Team Leader

Signature



Date:

June 11th, 2026

SECTION 3

TEST DATA SHEETS

SECTION 7.1.2

DESIGN REQUIREMENTS

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX

Manufacturer's HPI dimension: 9.5mm [Size J], 14.3mm [Size M] (Ref plane to lower edge of brim)

Manufacturer's Stowed Position for the Faceshield / Goggle component: Above Brim

Section		Compliant
7.1.2.1	Helmets shall have at least the applicable design requirements specified in this section where inspected by the certification organization as specified in Section 4.3, Inspection and Testing.	Yes
7.1.2.2	Suspension shall contain a nape device and shall be removable and replaceable.	Yes
7.1.2.3	Helmet suspension shall be adjustable in at least 3 mm (1/8 in.) hat size increments and the size range that can be accommodated shall be marked on the product label.	Yes
7.1.2.4	Chin straps shall be provided and shall not be less than 12 mm (1/2 in.) in width	Yes
7.1.2.5	Product labels and any other identification labels or markers used on helmet shells shall be affixed without the use of any metal parts or metallic labels.	Yes
7.1.2.6	Helmets shall be permitted to have ventilation openings.	Yes

SECTION 8.1.2.1
HEAT AND THERMAL SHRINKAGE RESISTANCE

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX

CONDITIONING: In accordance with Section 9.1.2

Sample No.	Date Code
1	3/2026

Brim Point #	Pretest Height (mm)	Post Test Height (mm)	Results (mm)	Compliant
1	292	292	0	Yes
2	289	289	0	Yes
3	281	280	-1	Yes
4	301	302	1	Yes
5	276	277	1	Yes
6	279	278	-1	Yes
7	279	280	1	Yes
8	276	280	4	Yes
9	300	300	0	Yes
10	281	281	0	Yes
11	289	288	-1	Yes
All hardware items shall remain functional.				Yes

Sample No.	Date Code
2	3/2026

Brim Point #	Pretest Height (mm)	Post Test Height (mm)	Results (mm)	Compliant
1	291	288	-3	Yes
2	288	287	-1	Yes
3	280	280	0	Yes
4	301	302	1	Yes
5	278	280	2	Yes
6	281	285	4	Yes
7	282	285	3	Yes
8	276	277	1	Yes
9	299	300	1	Yes
10	279	279	0	Yes
11	286	285	-1	Yes
All hardware items shall remain functional.				Yes

SECTION 8.1.2.1
HEAT AND THERMAL SHRINKAGE RESISTANCE

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX

CONDITIONING: In accordance with Section 9.1.2

Sample No.	Date Code
3	3/2026

Brim Point #	Pretest Height (mm)	Post Test Height (mm)	Results (mm)	Compliant
1	292	292	0	Yes
2	288	287	-1	Yes
3	280	279	-1	Yes
4	302	303	1	Yes
5	277	278	1	Yes
6	281	280	-1	Yes
7	280	280	0	Yes
8	275	276	1	Yes
9	300	300	0	Yes
10	280	279	-1	Yes
11	287	286	-1	Yes
All hardware items shall remain functional.				Yes

SECTION 8.1.2.2
TOP IMPACT RESISTANCE

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX
CONDITIONING: In accordance with Section 9.1.2, 9.1.4, 9.1.5, 9.1.6

Pre-Test

Impact #	Peak lbs.	Peak g's*	Peak g's	** % Difference
		(90-110)	Converted to lbs.	2.5% max.
1	779.03	98.40	784.25	
2	781.29	98.64	786.16	
3	780.30	98.59	785.76	
4	779.67	98.52	785.20	
5	780.07	98.64	786.16	
Average	780.07	98.56	785.51	0.69%

Sample	Date Code	Conditioning	Velocity (m/s)	Force (lbs.)	Compliant
1A	3/2026	Room (9.1.2)	5.52	704.79	Pass
1B	3/2026	Room (9.1.2)	5.51	695.7	Pass
1C	3/2026	Room (9.1.2)	5.52	695.61	Pass
2A	3/2026	Low (9.1.4)	*5.58	706.33	Pass
2B	3/2026	Low (9.1.4)	5.5	715.17	Pass
2C	3/2026	Low (9.1.4)	5.51	716.15	Pass
3A	4/2026	Convective (9.1.6)	5.51	710.86	Pass
3B	4/2026	Convective (9.1.6)	5.51	694.22	Pass
3C	4/2026	Convective (9.1.6)	5.51	706.94	Pass
4A	3/2026	Wet (9.1.5)	5.51	682.32	Pass
4B	3/2026	Wet (9.1.5)	5.51	671.34	Pass
4C	3/2026	Wet (9.1.5)	5.51	683.91	Pass

*over velocity; compliant

Post-Test

Impact #	Peak lbs.	Peak g's*	Peak g's	** % Difference
		(90-110)	Converted to lbs.	2.5% max.
1	774.64	97.85	779.86	
2	774.53	98.16	782.34	
3	775.86	98.29	783.37	
4	773.23	97.94	780.58	
5	773.29	97.97	780.82	
Average	774.31	98.04	781.39	0.91%

Pre-Post System Check % Diff: 0.74%

SECTION 8.1.2.3
OFFSET FORCE TRANSMISSION TEST

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX

CONDITIONING: In accordance with Section 9.1.2

Pre-Test	Impact No.	Velocity (m/s)	Peak lbs.
	1	2.4	2626.85
	2	2.41	2688.93
	3	2.39	2638.87
	4	2.41	2668.33
	5	2.4	2676.05
	Average:		2659.81

Sample No.	Location	Conditioning	Velocity (m/s)	Impact Energy (J)	Force (kN)	>5kN
1	2 (Front)	Ambient	3.15	24.66	3.15	No
1	3 (Rear)	Ambient	3.13	24.35	2.66	No
1	4 (Right)	Ambient	3.21	25.61	4.76	No
2	2 (Front)	Ambient	3.19	25.29	3.33	No
2	3 (Rear)	Ambient	3.13	24.35	2.59	No
2	4 (Right)	Ambient	3.24	26.09	3.00	No
3	2 (Front)	Ambient	3.17	24.97	3.13	No
3	3 (Rear)	Ambient	3.17	24.97	2.68	No
3	4 (Right)	Ambient	3.21	25.61	4.88	No
4	2 (Front)	Low	3.15	24.66	3.07	No
4	3 (Rear)	Low	3.13	24.35	2.89	No
4	4 (Left)	Low	3.19	25.29	2.57	No
5	2 (Front)	Low	3.17	24.97	3.00	No
5	3 (Rear)	Low	3.15	24.66	2.66	No
5	4 (Left)	Low	3.17	24.97	2.81	No
6	2 (Front)	Low	3.17	24.97	3.08	No
6	3 (Rear)	Low	3.15	24.66	2.66	No
6	4 (Left)	Low	3.17	24.97	3.99	No

SECTION 8.1.2.3
OFFSET FORCE TRANSMISSION TEST

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX

Sample No.	Location	Conditioning	Velocity (m/s)	Impact Energy (J)	Force (kN)	>5kN
7	2 (Front)	Wet	3.17	24.97	3.20	No
7	3 (Rear)	Wet	3.15	24.66	2.66	No
7	4 (Right)	Wet	3.19	25.29	3.19	No
8	2 (Front)	Wet	3.17	24.97	3.20	No
8	3 (Rear)	Wet	3.17	24.97	2.60	No
8	4 (Right)	Wet	3.19	25.29	3.32	No
9	2 (Front)	Wet	3.17	24.97	3.08	No
9	3 (Rear)	Wet	3.17	24.97	2.68	No
9	4 (Right)	Wet	3.21	25.61	3.32	No
10	2 (Front)	Convective	3.15	24.66	3.40	No
10	3 (Rear)	Convective	3.17	24.97	2.50	No
10	4 (Left)	Convective	3.19	25.29	2.50	No
11	2 (Front)	Convective	3.15	24.66	3.45	No
11	3 (Rear)	Convective	3.17	24.97	2.51	No
11	4 (Left)	Convective	3.19	25.29	2.33	No
12	2 (Front)	Convective	3.15	24.66	3.23	No
12	3 (Rear)	Convective	3.17	24.97	2.40	No
12	4 (Left)	Convective	3.17	24.97	2.50	No
Average:					3.03	

Post-Test	Impact No.	Velocity (m/s)	Peak Newtons
	1	2.39	2634.84
	2	2.4	2736.6
	3	2.4	2757.10
	4	2.4	2699.47
	5	2.4	2679.47
	Average:		2701.50

Pre-Post System Check: 1.54%

SECTION 8.1.2.4
PHYSICAL PENETRATION RESISTANCE

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX

CONDITIONING: In accordance with Section 9.1.2, 9.1.4, 9.1.5, 9.1.6

Sample	Date Code	Conditioning	Velocity (m/s)	Compliant
1A	3/2026	Room (9.1.2)	6.95	Pass
1B	3/2026	Room (9.1.2)	6.99	Pass
1C	3/2026	Room (9.1.2)	7.07	Pass
2A	3/2026	Low (9.1.4)	6.98	Pass
2B	3/2026	Low (9.1.4)	6.95	Pass
2C	3/2026	Low (9.1.4)	7.06	Pass
3A	4/2026	Convective (9.1.6)	6.96	Pass
3B	4/2026	Convective (9.1.6)	7.07	Pass
3C	4/2026	Convective (9.1.6)	6.95	Pass
4A	3/2026	Wet (9.1.5)	6.99	Pass
4B	3/2026	Wet (9.1.5)	7.07	Pass
4C	3/2026	Wet (9.1.5)	7.06	Pass

SECTION 8.1.2.5
ELECTRICAL INSULATION TEST

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX

CONDITIONING: In accordance with Section 9.1.2

Sample	Location	Leakage (mA)	Compliant?
1	Right side	0.000	Yes
	Left Side	0.000	
	Front	0.000	
2	Right Side	0.000	Yes
	Left Side	0.000	
	Rear	0.000	
3	Right Side	0.000	Yes
	Left Side	0.000	
	Front	0.000	

SECTION 8.1.2.6
SUSPENSION SYSTEM RETENTION TEST

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX

CONDITIONING: In accordance with Section 9.1.2

Sample #	Date Code	Suspension Attachment Point	Force to separate (Lbs)	Compliant
1A	4/26	1	>5.0	Yes
		2	>5.0	Yes
		3	>5.0	Yes
		4	>5.0	Yes
1B	4/26	1	>5.0	Yes
		2	>5.0	Yes
		3	>5.0	Yes
		4	>5.0	Yes
1C	9/25	1	>5.0	Yes
		2	>5.0	Yes
		3	>5.0	Yes
		4	>5.0	Yes

SECTION 8.1.2.7
RETENTION SYSTEM TEST

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX

CONDITIONING: In accordance with Section 9.1.2

Sample #	Elongation Observed (mm)	Compliant
1	31	Yes
2	32	Yes
3	33	Yes

SECTION 8.1.2.8
CORROSION RESISTANCE TEST

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX

CONDITIONING: In accordance with Section 9.1.13

Sample #	Date Code	Hardware Functional	Corrosion	Compliant
1	3/2026	Yes	No	Yes
2	3/2026	Yes	No	Yes
3	3/2026	Yes	No	Yes

SECTION 8.1.2.9
LABEL DURABILITY AND LEGIBILITY

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX
CONDITIONING: In accordance with Section 9.1.4, 9.1.5, 9.1.6, 9.1.8

Sample #	Conditioning	Compliant
1A	Low (9.1.4)	Yes
1B	Wet (9.1.5)	Yes
1C	Hot (9.1.6)	Yes
1D	Convective (9.1.8)	Yes
2A	Low (9.1.4)	Yes
2B	Wet (9.1.5)	Yes
2C	Hot (9.1.6)	Yes
2D	Convective (9.1.8)	Yes
3A	Low (9.1.4)	Yes
3B	Wet (9.1.5)	Yes
3C	Hot (9.1.6)	Yes
3D	Convective (9.1.8)	Yes

SECTION 8.1.2.10
HELMET ROLL OFF TEST

PRODUCT DESCRIPTION: USAR Protective Helmet; TRNXX
CONDITIONING: In accordance with Section 9.1.2 and 9.1.6

Sample Number	Date Code	Position	Rotation (°)	Retention Intact?	Removal From Headform?	Exposure of Coronal Plane?	Compliance
1	03/2026	45° Face Down	44.1	Yes	No	No	Yes
		45° Face Up	31.7	Yes	No	No	Yes

Sample Number	Date Code	Position	Rotation (°)	Retention Intact?	Removal From Headform?	Exposure of Coronal Plane?	Compliance
2	03/2026	45° Face Down	35.6	Yes	No	No	Yes
		45° Face Up	34.1	Yes	No	No	Yes

Sample Number	Date Code	Position	Rotation (°)	Retention Intact?	Removal From Headform?	Exposure of Coronal Plane?	Compliance
3	03/2026	45° Face Down	36.3	Yes	No	No	Yes
		45° Face Up	28.5	Yes	No	No	Yes

SECTION 4

REVISIONS

Date:	Page:	Revision:	Owner/Reviewer:
June 10, 2026	6	Section 7.1.2; Design Requirements- changed "Manufacturer's HPI dimension" to "9.5mm [Size J], 14.3mm [Size M]"	Jennifer Breed/ Matthew Stevens
	13	Added "Force to separate (lbs)" data to Section 8.1.2.6; Suspension Retention Test	