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The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
2009/01/20	1		Test Record	

Resending documents per client request.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to our Customer Service Professional, PHONE: 1-877-UL Helps (877-854-3577), FAX: 1-360-817-6000, E-MAIL: CEC@us.ul.com, referring to the above Project and/or PD Numbers.

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NBK File

TEST RECORD NO. 1

## SAMPLES:

Representative samples of Flexible Sprinkler Hose with Fittings as indicated below and constructed as described herein, were submitted by the manufacturer for examination and test.

Model	Rated Pressure, psig	Max. Ambient Temp, °F	Nom. Inlet by Outlet Size, in.	Assembly Length, ft (mm)	Max No. of 90° Bends	Min Bend Radius, in.	Equivalent Length of 1 in. Schedule 40 Steel Pipe (C = 120), ft	Flexibility Type
YN25-700	200	300	1x1/2	2.3 (700)	2	3	22	Limited
YN25-1000	200	300	1x1/2	3.3 (1000)	2	3	32	Limited
YN25-1200	200	300	1x1/2	3.9 (1200)	2	3	41	Limited
YN25-1500	200	300	1x1/2	4.9 (1500)	2	3	49	Limited
YN25-1800	200	300	1x1/2	5.9 (1800)	3	3	67	Limited
YB25-700	200	300	1x1/2	2.3 (700)	2	3	22	Limited
YB25-1000	200	300	1x1/2	3.3 (1000)	2	3	32	Limited
YB25-1200	200	300	1x1/2	3.9 (1200)	2	3	41	Limited
YB25-1500	200	300	1x1/2	4.9 (1500)	2	3	49	Limited
YB25-1800	200	300	1x1/2	5.9 (1800)	3	3	67	Limited
YB28-700	200	225	1x1/2	2.3 (700)	2	3	10	Limited
YB28-1000	200	225	1x1/2	3.3 (1000)	2	3	16	Limited
YB28-1200	200	225	1x1/2	3.9 (1200)	2	3	20	Limited

Model	Rated Pressure, psig	Max. Ambient Temp, °F	Nom. Inlet by Outlet Size, in.	Assembly Length, ft (mm)	Max No. of 90° Bends	Min Bend Radius, in.	Equivalent Length of 1 in. Schedule 40 Steel Pipe (C = 120), ft	Flexibility Type
YB28-1500	200	225	1x1/2	4.9 (1500)	2	3	23	Limited
YB28-1800	200	225	1x1/2	5.9 (1800)	3	3	32	Limited
YN25-700	200	300	1x3/4	2.3 (700)	2	3	28	Limited
YN25-1000	200	300	1x3/4	3.3 (1000)	2	3	38	Limited
YN25-1200	200	300	1x3/4	3.9 (1200)	2	3	48	Limited
YN25-1500	200	300	1x3/4	4.9 (1500)	2	3	54	Limited
YN25-1800	200	300	1x3/4	5.9 (1800)	3	3	74	Limited
YB25-700	200	300	1x3/4	2.3 (700)	2	3	28	Limited
YB25-1000	200	300	1x3/4	3.3 (1000)	2	3	38	Limited
YB25-1200	200	300	1x3/4	3.9 (1200)	2	3	48	Limited
YB25-1500	200	300	1x3/4	4.9 (1500)	2	3	54	Limited
YB25-1800	200	300	1x3/4	5.9 (1800)	3	3	74	Limited
YB28-700	200	225	1x3/4	2.3 (700)	2	3	16	Limited
YB28-1000	200	225	1x3/4	3.3 (1000)	2	3	23	Limited
YB28-1200	200	225	1x3/4	3.9 (1200)	2	3	25	Limited
YB28-1500	200	225	1x3/4	4.9 (1500)	2	3	28	Limited
YB28-1800	200	225	1x3/4	5.9 (1800)	3	3	38	Limited

## GENERAL:

For evaluation in accordance with UL 2443, Edition 1 and ULC/ORD C1474, Edition 1, the requirements of UL 2443, Edition 1 supersede the requirements of ULC/ORD C1474 based upon the intended end use of the product. For evaluation in accordance with ULC/ORD C1474, Edition 1, the Freezing Test (Section 3.9) is not required based upon the intended end use of the product.

Test results relate only to the items tested. The following tests were conducted:

Test	Paragraph / Clause
Examination of Samples, UL 2443, Edition 1 (ULC/ORD C1474, Edition 1)	Section 6, 7 (Section 2.1, 2.2)
Hydrostatic Pressure And Leakage, UL 2443, Edition 1 (Hydrostatic Pressure, ULC/ORD C1474, Edition 1)	Section 8 (Section 3.2)
Mechanical Strength, UL 2443, Edition 1 (ULC/ORD C1474, Edition 1)	Section 9 (Section 3.3)
High Temperature Exposure, UL 2443, Edition 1 (ULC/ORD C1474, Edition 1)	Section 10 (Section 3.4)
Vibration - Straight Outlet, UL 2443, Edition 1 (ULC/ORD C1474, Edition 1)	Section 11 (Section 3.5)
Equivalent Length Determination, UL 2443, Edition 1 (Flow Characteristics Equivalent Length, ULC/ORD C1474, Edition 1)	Section 12 (Section 3.6)
Stress-Corrosion Cracking Of Stainless Steel Parts, UL 2443, Edition 1	Section 15
Elastomeric Parts, UL 2443, Edition 1 (ULC/ORD C1474, Edition 1)	Section 16 (Section 3.8)
Pressure Cycling, UL 2443, Edition 1	Section 18
Vacuum, UL 2443, Edition 1	Section 19
High Pressure Flow, UL 2443, Edition 1	Section 20
Fatigue, UL 2443, Edition 1	Section 21
Metallic Coating Thickness, UL 2443, Edition 1	Section 22.3 - 22.10, 7.3, 7.4
Infrared Spectroscopy, UL 746a, Edition 5	Section 42
Thermogravimetry, UL 746a, Edition 5	Section 45
Differential Scanning Calorimetry, UL 746a, Edition 5	Section 46

## Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the standards noted below and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Standard	Title	Edition or Publication Date	Latest Revision Date
UL 2443	Standard for Safety for Flexible Sprinkler Hose with Fittings for Fire Protection Service	Edition 1	August 24, 2006
ULC/ORD-C1474	ULC Other Recognized Document for Adjustable Drop Nipples for Sprinkler Systems	Edition 1	December 2003
UL 746A	UL Standard for Safety for Polymeric Materials - Short Term Property Evaluations	Edition 5	May 30, 2006

## CONCLUSION

Samples of the products covered by this Report have been found to comply with the requirements covering the category and the products are judged to be eligible for Listing and Follow-Up Service. The manufacturer is authorized to use the UL Mark on such products which comply with the Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. Only those products which properly bear the UL Mark are considered as Listed by Underwriters Laboratories Inc. Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

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