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Subject 565

1655 Scott Blvd.
 Santa Clara, CA 95050
 May 20, 1996

TO: Fire Council of Underwriters Laboratories Inc.,
 Subscribers to UL's Standards Service for Liquid Level Gauges and Indicators for
 Anhydrous Ammonia and LP-Gas

SUBJECT: Request for Comments on Proposed Requirements for the Fourth Edition of the
 Standard for Liquid Level Gauges and Indicators for Anhydrous Ammonia and LP-Gas,
 UL 565; PROPOSED EFFECTIVE DATE

SUMMARY OF TOPICS

This bulletin proposes to:

1. Change the specific gravity in the 10-day moist ammonia air stress cracking test from 0.90 to 0.94 and
2. Slightly modify the test method previously proposed in UL's industry bulletin dated February 18, 1994.

COMMENTS DUE: JUNE 17, 1996

Attached as Appendix A for your review and comment are proposed requirements for UL 565. Questions regarding interpretation of requirements should be directed to the responsible UL Staff. Please see Appendix B of this bulletin regarding designated responsibility for the subject product categories.

Please note that proposed requirements are of a tentative and early nature and are for review and comment only. Current requirements are to be used to judge a product until these requirements are published in final form.

PROPOSED EFFECTIVE DATE

These proposed requirements will not necessitate a review or additional testing of currently Listed products. Therefore, UL proposes that the new requirements become effective upon publication.

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 committed to quality service

Subject 565

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May 20, 1996

REQUEST FOR COMMENTS ON PROPOSALS

Please provide the following:

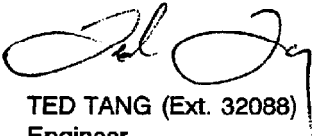
1. Your comments concerning the proposed requirements; and
2. Your comments concerning the proposed effective date, should the proposals be adopted.

Written comments should be sent to the attention of Ted Tang at UL's Santa Clara office, 1655 Scott Blvd., Santa Clara, CA 95050-4169. Comments may be sent by mail or faxed to (408) 556-6045. Please reference all correspondence to Subject 565.

All comments should be sent by June 17, 1996.

Unless specifically requested to do so, UL will not acknowledge comments indicating concurrence with these proposals.

UNDERWRITERS LABORATORIES INC.



TED TANG (Ext. 32088)
Engineer
Standards Department
SANTA CLARA OFFICE
(408) 985-2400

REVIEWED BY:



MARSHALL ISSEN (Ext. 43146)
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SR:ATL

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PROPOSED REQUIREMENTS ARE OF A TENTATIVE AND EARLY NATURE AND ARE FOR REVIEW AND COMMENT ONLY. CURRENT REQUIREMENTS ARE TO BE USED TO JUDGE A PRODUCT UNTIL THESE REQUIREMENTS ARE PUBLISHED IN FINAL FORM.

APPENDIX A

PROPOSED REQUIREMENTS AND PROPOSED EFFECTIVE DATE FOR THE FOURTH EDITION OF THE STANDARD FOR LIQUID LEVEL GAUGES AND INDICATORS FOR ANHYDROUS AMMONIA AND LP-GAS, UL 565

For your convenience in review, proposed new requirements are identified by (NEW).

MODIFIED 10-DAY AMMONIA AIR-STRESS CRACKING TEST

RATIONALE

UL's Subject 565 bulletin, dated February 18, 1994, proposed replacing the mercurous nitrate test with a 10-Day Moist Ammonia-Air Stress Cracking Test. Based on review of comments to the bulletin and after further study, UL has determined that the aqueous ammonia used for the test should have a specific gravity of 0.94 rather than 0.90, as the 0.94 solution is more likely to produce test results consistent with results obtained when testing with mercurous nitrate.

IMPACT

As all currently Listed products already comply with the proposed requirement, there will not be a need for retesting or review if the proposed requirements are adopted.

PROPOSALS

(NEW SECTION)

13A 10-Day Moist Ammonia-Air Stress Cracking Test

13A.1 After being subjected to the conditions described in 1.2 – 1.4, a brass part containing more than 15 percent zinc shall show no evidence of cracking when examined using 25X magnification.

13A.1 added date of publication

13A.2 Each test sample is to be subjected to the physical stresses normally imposed on or within a part as the result of assembly with other components. Such stresses are to be applied to the sample prior to and maintained during the test. Samples with threads, intended to be used for installing the product in the field are to have the threads engaged and tightened to the torque specified in Table 13A.1. Teflon tape or pipe compound are not to be used on the threads.

13A.2 added date of publication

Table 13A.1
Torque requirements for threaded connections

Nominal thread size, inches	Torque,	
	pound-inches	(N · m)
1	1200	135.6
1-1/4	1450	163.8
1-1/2	1550	175.1
2	1650	186.4
2-1/2	1750	197.7
3	1800	203.4

Table 13A.1 added date of publication

13A.3 Three samples are to be degreased and then continuously exposed in a set position for ten days to a moist ammonia-air mixture maintained in a glass chamber approximately 305 by 305 by 305 mm having a glass cover.

13A.3 added date of publication

13A.4 Approximately 600 ml of aqueous ammonia having a specific gravity of 0.94 is to be maintained at the bottom of the glass chamber below the samples. The samples are to be positioned 1-1/2 in. (38.1 mm) above the aqueous ammonia solution and supported by an inert tray. The moist ammonia-air mixture in the chamber is to be maintained at atmospheric pressure and at a temperature of $34 \pm 2^\circ\text{C}$.

13A.4 added date of publication

APPENDIX B

DESIGNATED RESPONSIBILITY FOR UL
 PRODUCT CATEGORIES
 JXWR, GAUGES – ANHYDROUS AMMONIA, LIQUID-LEVEL
 JYXX, GAUGES – LP-GAS, LIQUID-LEVEL

The individuals shown in the following tables are involved with the investigation of products covered under the subject categories. The Primary Designated Engineer (**shown in UPPERCASE letters**) coordinates the establishment and uniform interpretation of UL requirements applicable to the product categories. The Designated Engineers (**shown in lowercase letters**) work with the Primary Designated Engineer to interpret requirements and maintain standards.

Should you have questions regarding the interpretation of the requirements proposed in this bulletin or any adopted requirements that affect your product, you are encouraged to contact the individual at the office to which you normally submit your products.

The Responsible Department Manager for the subject categories is John Hawley at UL's Northbrook office. The Responsible Department Manager oversees the significant interpretations made by the Primary Designated Engineer and arbitrates any differences regarding interpretation of UL requirements.

CCN	Office/Subsidiary	Responsible Engineer	Extension
JXWR	Northbrook	MARSHALL ISSEN	43146
	RTP	Edwin Henderson	11661

CCN	Office/Subsidiary	Responsible Engineer	Extension
JYXX	Northbrook	MARSHALL ISSEN	43146
	RTP	Edwin Henderson	11661
	Santa Clara	Ben Mapes	32190

Liquid-Level Gauges and Indicators for Anhydrous Ammonia and LP-Gas