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Subjects 2194 (506, 1561, 1562)

1655 Scott Blvd.
 Santa Clara, CA 95050
 October 16, 1996

TO: Electrical Council of Underwriters Laboratories Inc.,
 Subscribers to UL's Listing and Recognition Service for Distribution, Power, and Dry-Type Transformers, and
 Others Interested

SUBJECT: Announcement of Underwriters Laboratories Transformer Energy Efficiency Verification Program in Accordance With The CSA Standard C802-94, Maximum Losses for Distribution, Power, and Dry-Type Transformers.

UL announces the establishment of two new categories for verification of transformer energy efficiency as an extension of its Energy Verification Services. These categories are all inclusive (i.e., include dry-type, liquid filled, epoxy cast, etc.) and there are no prerequisites for obtaining the verification service (i.e., to obtain verification, the product need not be currently a UL Listed device or a UL Recognized component). These categories are as follows:

1. POWER AND GENERAL PURPOSE TRANSFORMERS, 600 VOLTS AND LESS, VERIFIED FOR ENERGY EFFICIENCY IN ACCORDANCE WITH THE CSA STANDARD C802-94 (ZZED).

The minimum KVA ratings covered are 25KVA for single-phase transformers and 75KVA for 3-phase transformers.

2. TRANSFORMERS, DISTRIBUTION, AND POWER, RATED OVER 600 VOLTS, VERIFIED FOR ENERGY EFFICIENCY IN ACCORDANCE WITH THE CSA STANDARD C802-94 (ZZON).

The voltages and corresponding KVA ratings are:

Power Transformers — 501 to 3000KVA, 44KV and below. 3001 to 10,000KVA, 34.5KV and below. 3001 to 10,000KVA, 34.5KV to 69KV.

Dry-Type Transformers — Single-phase, 1.2KV Class, 25 to 333KVA. 3-Phase, 1.2KV Class, 30 to 7500KVA, BIL(Basic Lightning Impulse Insulation Level for the high voltage winding) categories are 30, 50, 95, 125, and 150KV.

Manufacturers interested in obtaining additional information or submitting their transformers for energy efficiency verification in accordance with CSA Standard C802-94 may contact the following UL personnel at the UL office that normally handles their product submittals.

Attached as Appendix A is the Guide Information for categories ZZON and ZZED.

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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.

UNDERWRITERS LABORATORIES INC.



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SR:ATL

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A P P E N D I X A

GUIDE INFORMATION FOR

ZZED, POWER AND GENERAL PURPOSE TRANSFORMERS, 600 VOLTS AND LESS,
VERIFIED FOR ENERGY EFFICIENCY IN ACCORDANCE WITH THE CSA STANDARD
C802-94.

ZZON, TRANSFORMERS, DISTRIBUTION, AND POWER, RATED OVER 600 VOLTS,
VERIFIED FOR ENERGY EFFICIENCY IN ACCORDANCE WITH THE CSA STANDARD
C802-94

APPENDIX B

DESIGNATED RESPONSIBILITY FOR UL
PRODUCT CATEGORIES

XPFS, TRANSFORMERS, DISTRIBUTION, DRY TYPE OVER 600 V
 XPFS2, COMPONENT — TRANSFORMERS, DISTRIBUTION, DRY TYPE OVER
 600 V
 XPTQ, TRANSFORMERS, GENERAL PURPOSE
 XPTQ2, COMPONENT— TRANSFORMERS, GENERAL PURPOSE
 XQNX, TRANSFORMERS, POWER & GENERAL PURPOSE, DRY TYPE
 XQNX2, COMPONENT — TRANSFORMERS, POWER & GENERAL PURPOSE,
 DRY TYPE
 ZZED, POWER AND GENERAL PURPOSE TRANSFORMERS, 600 VOLTS AND
 LESS
 ZZON, TRANSFORMERS, DISTRIBUTION, AND POWER, RATED OVER 600
 VOLTS

The individuals shown in the following table 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 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 Industry Advisory Conference (IAC) Chairman for the subject categories is Wayne Menuz at UL's Santa Clara office. The IAC Chairman 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
ZZED, ZZON	Camas	Dom Kumandan	5604
	Melville	Paul Notarian	22590
	Northbrook	John Sadeghloo	42970
	RTP	John Thompson	11621
	Santa Clara	RON BRESCHINI	32405

CCN	Office/Subsidiary	Responsible Engineer	Extension
XPFS, XPFS2	Camas	Dom Kumandan	5604
	Melville	MICHAEL SCHAKER	22450
	Northbrook	John Sadeghloo	42970
	RTP	Joyce Mudra	11613
	Santa Clara	Ron Breschini	32539

CCN	Office/Subsidiary	Responsible Engineer	Extension
XQNX, XQNX2, XPTQ, XPTQ2	Camas	Dom Kumandan	5604
	Melville	Paul Notarian	22590
	Northbrook	John Sadeghloo	42970
	RTP	John Thompson	11621
	Santa Clara	BOB NGUYEN	32539

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Transformers, Distribution, Dry-Type Over 600 Volts

