



**ELECTRICAL INSPECTIONS**

# Approved Field Inspection Agencies and Certification Bodies

Effective March 1, 2025 Amended February 5, 2025 V2.0

# 2024



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## WEBSITE INFORMATION

**Publications Saskatchewan:** <https://publications.saskatchewan.ca/#/freelaw/acts>

- Electrical Inspection Act, 1993: E-6.3
- Electrical Inspection Regulations: E-6.3 R1, E-6.3 R16
- Electrical Licensing Act: E-7.2
- Electrical Licensing Regulations: E-7.2 R4

**TSASK:** [www.tsask.ca](http://www.tsask.ca)

- [2024 CEC Saskatchewan Interpretations](#)
- [Approved Field Inspection Agencies and Certification Bodies](#)
- [Electrical Inspector Contact Search](#)
- [Electrical Fee Schedule](#)
- [Code for Electrical Installations at Oil & Gas Facilities](#)
- [Link to Electrical Inspection Act and Electrical Inspection Regulations](#)



## SECTION 2 – GENERAL RULES

### 2-024 - USE OF APPROVED EQUIPMENT

All electrical equipment shall be approved as per Rule [2-024](#) and Appendix B note with the exception as per Rule 16-222.

*Labels are required for manufactured homes and movable equipment wired under a Saskatchewan electrical permit.*

Skids and movable equipment that have been wired off site shall have a suitable, weatherproof if required, label affixed to the electrical panel or skid. The label shall include the Saskatchewan electrical contractor's name, the permit number that was issued for the installation and the date.

Manufactured homes [ready to move homes (RTM)] shall have a label affixed to the electrical panelboard or the inside of the kitchen cabinet. The label shall include the Saskatchewan electrical contractor's name, the permit number that was issued for the installation and the date. If you require labels, please contact your *Local Electrical Inspector*.

#### **Equipment approval certification**

All electrical equipment requires an overall approval from a Saskatchewan recognized certification body prior to being sold, advertised, electrically connected or reconnected. This includes locally manufactured products, used or rebuilt equipment, solar powered generating units used for temporary construction power or lighting, and may also include mobile homes, and RTM's. For a complete list of approved certification bodies and certification marks, please visit the TSASK website at [www.tsask.ca](http://www.tsask.ca).



#### **Field inspection certification**

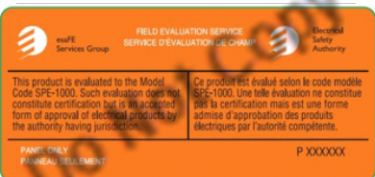

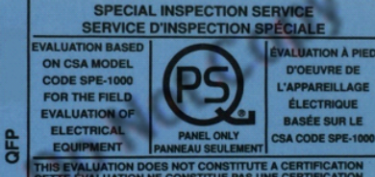


For a list of current recognized field certification labels for the Province of Saskatchewan, contact Electrical Inspections at our toll-free number 1-866-530-8599, or visit us online at [www.tsask.ca](http://www.tsask.ca).

#### **Field inspection / Field evaluation reports**


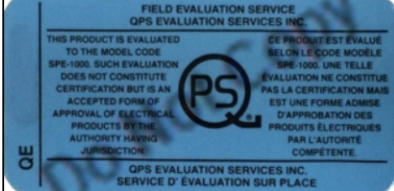
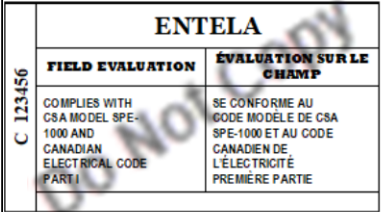







Field inspection reports on skids or moveable equipment shall become part of the equipment and shall be made available on request. Report shall remain with the equipment.



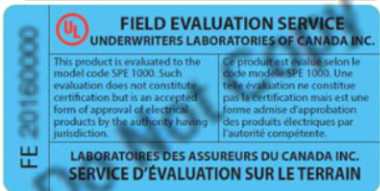

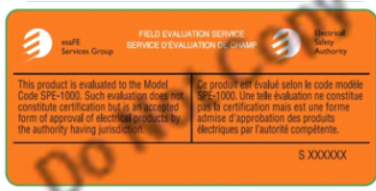







Name of Field Inspection Agency	Special Inspection <b>Medical Equipment Label</b> All labels must read: <u>"SPE-3000"</u>	Name of Field Inspection Agency	Special Inspection <b>Medical Equipment Label</b> All labels must read: <u>"SPE-3000"</u>
<b>CSA Group</b>		<b>QPS</b>	

Name of Field Inspection Agency	Special Inspection <b>Panel Label</b> All labels must read: <u>"SPE-1000"</u>	Name of Field Inspection Agency	Special Inspection <b>Panel Label</b> All labels must read: <u>"SPE-1000"</u>
<b>Electrical Safety Authority Field Evaluation (ESAFE)</b>		<b>CSA Group</b>	
<b>QPS</b>		<b>AC&amp;E North America Inc.</b>	
<b>Averifica</b>			




Name of Field Inspection Agency	<b>Special Inspection Product Label</b> All labels must read: <u>"SPE-1000"</u>	Name of Field Inspection Agency	<b>Special Inspection Product Label</b> All labels must read: <u>"SPE-1000"</u>
<b>CSA Group</b>		<b>QPS</b>	
<b>ETL Intertek Entela</b>		<b>INTERTEK Testing Services</b>	
<b>ETL Intertek Semko</b>		<b>QAI Laboratories Ltd.</b>	
<b>TÜV America Inc.</b>		<b>QAI Laboratories Ltd.</b>	
<b>International Testing Laboratory Inc.</b>		<b>Elspect Electrical (2007) Ltd.</b>	



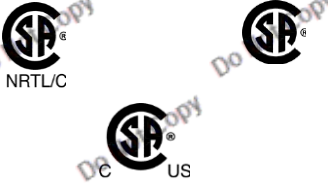
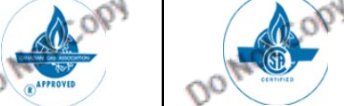















Name of Field Inspection Agency	Special Inspection <b>Product Label</b> All labels must read: <b>"SPE-1000"</b>	Name of Field Inspection Agency	Special Inspection <b>Product Label</b> All labels must read: <b>"SPE-1000"</b>
<p><b>Underwriter's Laboratories of Canada</b></p>		<p><b>TÜV Rheinland of North America, Inc.</b></p>	
<p><b>Electrical Safety Authority Field Evaluation (ESAFE)</b></p>		<p><b>Nemko Canada Inc.</b></p>	
<p><b>LabTest Certification</b></p>		<p><b>AC&amp;E North America Inc.</b></p>	
<p><b>Vision Integrity Engineering Ltd.</b></p>		<p><b>SEAC Engineering Inc.</b></p>	
<p><b>Q Test Inspection Ltd.</b></p>		<p><b>SEAC Engineering Inc. (Commercial &amp; gas fired appliances)</b></p>	

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Name of Field Inspection Agency	Special Inspection Product Label All labels must read: <u>"SPE-1000"</u>	Name of Field Inspection Agency	Special Inspection Product Label All labels must read: <u>"SPE-1000"</u>
Averifica	 <p>The image shows a blue and white label for 'Averifica' with the product code 'S-1234567'. It features a central logo and text in both English and French. The English text reads: 'This product is evaluated to the Model Code SPE-1000. Such evaluation does not constitute certification but is an accepted form of approval of electrical products by the authority having jurisdiction.' The French text reads: 'Ce produit est évalué selon le code modèle SPE-1000. Une telle évaluation ne constitue pas la certification mais est une forme admise d'approbation des produits électriques par l'autorité compétente.' At the bottom, it says 'SPECIAL INSPECTION SERVICE' and 'SERVICE D'INSPECTION SPÉCIALE'.</p>		









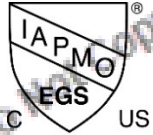



Name of Certification Body	Certification Marks	
CSA International		<p>The CSA certification mark alone without any identifier indicates products approved to Canadian National Standards. If another country's identifier is present (E.g. US, NRTL), then the small 'c' Canadian identifier is required to indicate that the product also complies with Canadian National Standards.</p>
		<p>The 'Blue Flame' certification mark is a Canada only mark indicating compliance to Canadian National Standards. They do not require a small 'c' Canadian identifier.</p>
QPS Evaluation Services Inc.		<p>The QPS certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required</p>
FM Approvals		 <p>The FM certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
Met Laboratories		<p>The MET certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
Intertek Testing Services NA Ltd. (ETL) (Entela)		 <p>The ETL Intertek Entela certification mark requires the small 'c' Canadian identifier at the 8 o'clock position to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
		 <p>ETL Intertek Semko has 2 certification marks; the ETL mark and the WH mark. Each mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards.</p>
		 <p>Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
		
QAI Laboratories Ltd.		 <p>The QAI certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
		<p>The QAI Hazardous Equipment field certification will certify the equipment to the part 2 standard</p>








Name of Certification Body	Certification Marks	
TÜV Product Service	 <p>The TÜV Product Service certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>	
TÜVRheinland of North America	 <p>The TÜV Rheinland certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>	
Underwriter's Laboratory		 <p>The UL certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
		<p>The ULC certification marks are Canada only marks indicating compliance to Canadian National Standards. They do not require a small 'c' Canadian identifier.</p>
		<p>This style of UL certification mark does not require a small 'c' Canadian identifier however; it does require the ISO country code to be part of the mark. ("Safety CA", "Safety US-CA", or "Safety US-CA-EU")</p>
Curtis-Straus LLC	 <p>The Curtis – Straus LLC certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>	
NSF International	 <p>The NSF International certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>	
Nemko North America, Inc.	 <p>The Nemko North America, Inc. certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>	



Name of Certification Body	Certification Marks		
<b>LabTest Certification Inc.</b>			<p>The LabTest certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
<b>ENEFEN Energy Efficiency Engineering Ltd.</b>			<p>The ENEFEN certification mark is a Canada only mark indicating compliance to Canadian National Standards. It does not require a small 'c' Canadian identifier.</p>
<b>SGS NORTH AMERICA, INC.</b>			<p>The SGS North America Inc. certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
<b>Electrical Safety Authority Field Evaluation (ESAFE)</b>			<p>The ESAFE certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
<b>IAPMO</b>			<p>The IAPMO EGS certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
<b>International Testing Laboratory Inc.</b>			<p>The INTL certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>
<b>OMNI Environmental Services Inc.**</b>			<p>The OMNI Environmental certification mark requires the small 'c' Canadian identifier to indicate compliance to Canadian National Standards. Identifiers for other countries may be present but, in all cases, the small 'c' is required.</p>



Name of Certification Body	Certification Marks	
<b>Elspect Electrical (2007) Ltd.</b>		<p>The EEL certification mark is a Canada only mark indicating compliance to Canadian National Standards. It does not require a small 'c' Canadian identifier.</p>
		<p>The EEL Hazardous Equipment field certification will certify the equipment to the part 2 standard, specifically No.s 157 and 213</p>
		



<u>Certification Body</u>		SPECIAL/FIELD INSPECTION AGENCIES
<p><b>CSA Group</b> 1707 94th Street NW Edmonton, AB T6N 1E6 Canada</p>	<p>General Queries – (780) 450-2111 Standard Sales &amp; Seminars - (780) 490-2007 1-800-463-6727 Fax: (780) 490-2059 E-mail: <a href="mailto:info@csagroup.org">info@csagroup.org</a> Website: <a href="http://www.csagroup.org">www.csagroup.org</a></p>	<p>Jeff Tuttle Field Service Representative, Factory Inspections Saskatoon, SK Office Phone # (306) 882-3399 Cell Phone # (306) 716-2306 E-mail: <a href="mailto:jeff.tuttle@csagroup.org">jeff.tuttle@csagroup.org</a></p>
<p><b>CSA Group</b> 178 Rexdale Boulevard Toronto, ON M9W 1R3 Canada</p>	<p>Mr. Stephen Morley, Senior Manager, Field Evaluations and Verifications (416) 747-4144 Fax: (416) 747-4149 E-mail: <a href="mailto:stephen.morley@csagroup.org">stephen.morley@csagroup.org</a> Website: <a href="http://www.csagroup.org">www.csagroup.org</a></p>	<p>See link for applicable marks:  <a href="http://www.csagroup.org/service/certification/north-american-field-evaluation-services/">http://www.csagroup.org/service/certification/north-american-field-evaluation-services/</a></p>
<p><b>QPS Evaluation Services Inc.</b> Units 7-10 81 Kelfield St. Toronto, ON M9W 5A3 Canada</p>	<p>P: 416-241-8857 F: 416-241-0682 1-877-746-4777 Website: <a href="http://www.qps.ca">www.qps.ca</a> E-mail: <a href="mailto:info@qps.ca">info@qps.ca</a></p>	<p>Performs field inspections <b>Testing Tech</b> #150-3919 Arthur Rose Avenue Saskatoon, SK S7P 0C8 P: 306-664-2415 F: 306-934-1004 E-mail: <a href="mailto:inspections@testing-tech.com">inspections@testing-tech.com</a></p>
<p><b>Intertek Testing Services NA Ltd. (ETL)</b> 1500 Brigantine Drive Coquitlam, BC V3K 7C1 Canada</p>	<p><b>Mr. Heiko Neugebauer</b> <b>Inspections Body Program Manager</b> Electrical Safety Manager 12010 – 111 Ave. Edmonton, Alberta T5G 0E6 Phone: (604) 520-3321 Fax: (604) 524-9186 Toll-Free: (800) 668-8378 Sales: (778) 903-1180 E-mail: <a href="mailto:heiko.neugebauer@intertek.com">heiko.neugebauer@intertek.com</a> Website: <a href="http://www.intertek.com">www.intertek.com</a> <b>Hazardous Locations</b> Brian Whittle Edmonton, Alberta Office (780) 440-4455</p>	<p>Collin Sinclair Saskatoon, Saskatchewan Mobile: (306) 277-5484 1-800-668-8378 Website: <a href="http://www.intertek.com">www.intertek.com</a> E-mail: <a href="mailto:collin.sinclair@intertek.com">collin.sinclair@intertek.com</a>  Brad Helgason Regina, Saskatchewan Phone (306) 545-3551 Fax (306) 790-7267 Website: <a href="http://www.intertek.com">www.intertek.com</a> E-mail: <a href="mailto:brad.helgason@intertek.com">brad.helgason@intertek.com</a></p>
<p><b>FM Approvals</b> 1151 Boston Providence Turnpike; P.O. Box 9102 Norwood, MA 02062 USA</p>	<p>Technical Auditing Services Phone: (781) 762-4300 Fax: (781) 762-9375 E-mail: <a href="mailto:information@fmaprovals.com">information@fmaprovals.com</a> E-mail: <a href="mailto:servicedeskglobal@fmglobal.com">servicedeskglobal@fmglobal.com</a> Website: <a href="http://www.fmglobal.com">www.fmglobal.com</a></p>	



<u>Certification Body</u>		SPECIAL/FIELD INSPECTION AGENCIES
<p><b>MET Laboratories, Inc.</b> 914 West Patapsco Avenue Baltimore, MD 21230-3432 USA</p>	<p>Mr. R. Frier, President Ph: (410) 949-1805 Fax: (410) 354-3313 E-mail: <a href="mailto:rob.frier@metlabs.com">rob.frier@metlabs.com</a> Website: <a href="http://www.metlabs.com">www.metlabs.com</a></p>	
<p><b>QAI Laboratories Ltd.</b> 3980 North Fraser Way Burnaby, BC V5J 5K5 Canada</p>	<p>Mr. Lawrence Gibson, Exec. V.P. Ph:604-527-8378 Fax: 604-461-8378 E-mail: <a href="mailto:Lgibson@qai.org">Lgibson@qai.org</a> E-mail: <a href="mailto:info@qai.org">info@qai.org</a> Website: <a href="http://www.qai.org">www.qai.org</a></p>	
<p><b>TÜV Product Service, a division of TÜV America Inc.</b> 5 Cherry Hill Drive Danvers, MA 01923 USA</p>	<p>Mr. G. Minks, Director Certification Body Ph: (978) 739-7000 Fax: (978) 777-8441 E-mail: <a href="mailto:gminks@tuvam.com">gminks@tuvam.com</a> Website: <a href="http://www.tuvamerica.com">www.tuvamerica.com</a></p>	<p>Performs field inspections.</p>
<p><b>TÜV Rheinland of North America, Inc.</b> 12 Commerce Road Newtown, CT 06470 USA</p>	<p>Mr. T. R. Calland, P.E., Program Manager Product Safety and Quality International Approvals Ph: (203) 426-0888 Fax: (203) 426-4009 E-mail: <a href="mailto:tcalland@us.tuv.com">tcalland@us.tuv.com</a> Website: <a href="http://www.tuv.com">www.tuv.com</a></p>	
<p><b>Underwriters' Laboratories of Canada</b> 7 Underwriters Road Toronto, ON M1R 3B4 Canada</p>	<p>Mr. Gunsimar Paintal Regional Quality Manager &amp; UL Mark Program Owner Ph: (416) 757-5250 Fax: (416) 757-1781 E-mail: <a href="mailto:gunsimarbir.paintal@ca.ul.com">gunsimarbir.paintal@ca.ul.com</a> Website: <a href="http://www.ulc.ca">www.ulc.ca</a></p>	<p>Mr. Andrew Saunders CAS Manager &amp; IB Program Owner Ph: (416) 757-5250 Fax: (416) 757-1781 E-Mail: <a href="mailto:andrew.saunders@ca.ul.com">andrew.saunders@ca.ul.com</a> Website: <a href="http://www.ulc.ca">www.ulc.ca</a></p>
<p><b>CURTIS-STRAUS LLC</b> 527 Great Road Littleton, MA 01460 USA</p>	<p>Mr. Jon D. Curtis, P.E. Director of Operations Ph: (978) 486-8880 Fax: (978) 486-3529 E-mail: <a href="mailto:jcurtis@curtis-strauss.com">jcurtis@curtis-strauss.com</a> Website: <a href="http://www.curtis-strauss.com">www.curtis-strauss.com</a></p>	



<u>Certification Body</u>		SPECIAL/FIELD INSPECTION AGENCIES
<p><b>NSF INTERNATIONAL</b> 789 Dixboro Road Ann Arbor, MI 48105 USA</p>	<p>Mr. Craig S. Morr, CEI/CEM Q A &amp; Organization Safety Manager Ph: (734) 769-5143 Telefax: (734) 827-6849 E-mail: <a href="mailto:information@nsf-isr.org">information@nsf-isr.org</a></p>	
<p><b>Nemko North America, Inc.</b> 303 River Road, Ottawa, ON K1V 1H2 Canada</p>	<p>Mr. Stuart Beck Director of Certification Ph: (613) 737-9680, ex. 246 Fax: (613) 737-9691 E-mail: <a href="mailto:stuart.beck@nemko.com">stuart.beck@nemko.com</a> Website: <a href="http://www.nemko.com">www.nemko.com</a></p>	<p>Performs field inspections</p>
<p><b>OMNI-Test Laboratories, Inc.</b> 5465 SW Western Avenue, Suite G Post Office Box 743 Beaverton, OR 97075 USA</p>	<p>Ms. Alana Smith Accreditation Manager Ph: (503) 643-3788 Fax: (503) 643-3799 E-mail: <a href="mailto:asmith@omni-test.com">asmith@omni-test.com</a> Website: <a href="http://www.omni-test.com">www.omni-test.com</a></p>	
<p><b>Electrical Safety Authority Field Evaluation (ESAFE)</b> 4043 Carling Avenue, Suite 106 Ottawa, ON K2K 2A4 Canada</p>	<p>Jacques Martin Technical Manager Field Evaluation Services Ph: (613) 292-1372 Website: <a href="http://www.esafe.org">www.esafe.org</a></p>	<p>Jacques Martin Technical Manager PH: (613) 292-1372 E-mail: <a href="mailto:Jacques.martin@electricalsafety.on.ca">Jacques.martin@electricalsafety.on.ca</a></p>
<p><b>LabTest Certification Inc.</b> 205-8291 92 Street Delta, BC V4G 0A4 Canada</p>	<p>Toll Free: 1-855-346-0444 Tel: (604) 247-0444 Website: <a href="http://www.labtestcert.com">www.labtestcert.com</a> E-mail: <a href="mailto:info@labtestcert.com">info@labtestcert.com</a></p>	
<p><b>ENEFEN Energy Efficiency Engineering Ltd.</b> 9865 West Saanich Road, Suite 201, North Saanich, BC V8L 5Y8 Canada</p>	<p>Tel: (780) 665-2863 Ext 17 Fax: 1-866-583-0520 E-mail: <a href="mailto:info@enefen.com">info@enefen.com</a></p>	<p>Performs field inspections</p>



<u>Certification Body</u>		SPECIAL/FIELD INSPECTION AGENCIES
<p><b>SGS NORTH AMERICA, INC.</b> 5825 Explorer Drive Mississauga, ON L4W 5P6 Canada</p>	<p>Telephone: (905) 364-3771 Fax: (973) 575-7175</p>	
<p><b>AC&amp;E North America Inc.</b> Empire State Building 350 5<sup>th</sup> Ave., 41<sup>st</sup> Floor NYC, NY 10118 USA</p>	<p>Telephone: (941) 780-2110 Website: <a href="http://www.acenorthamerica.com">www.acenorthamerica.com</a></p>	<p>Matteo Marconi <a href="mailto:matteo.marconi@acenorthamerica.com">matteo.marconi@acenorthamerica.com</a></p>
<p><b>IAPMO Ventures, LLC dba IAPMO EGS</b> 5001 E. Philadelphia St. Ontario, CA 91761 USA</p>	<p>Tel: (909) 472-4100 Fax: (909) 472-4243 Website: <a href="http://www.iapmoegs.org">www.iapmoegs.org</a></p>	<p>Contact: Shirley Dewi E-mail: <a href="mailto:shirley.dewi@aiapmort.org">shirley.dewi@aiapmort.org</a></p>
<p><b>Vision Integrity Engineering Ltd.</b> Suite 301, 620-12 Ave SW Calgary, AB T2R 0H5 Canada</p>	<p>SPE 1000  General Inquiries: (587) 353-6630</p>	<p>Trevor Davies P.Eng. SI Consultant Calgary, AB Office: (587) 353-6630 Cell: (403) 473-1184 <a href="mailto:trevordavies@visionintegrity.ca">trevordavies@visionintegrity.ca</a></p>
<p><b>SEAC Engineering Inc.</b> 43 Carringvue Drive NW Calgary, AB T3P 0W4 Canada</p>	<p>SPE 1000  Website: <a href="http://seacengineering.com">seacengineering.com</a></p>	<p>Muhammad Tauseef P.Eng., FS.Eng. Field Evaluations Calgary, AB Office: (587)999-6961 <a href="mailto:mutauseef@seacengineering.com">mutauseef@seacengineering.com</a></p>
<p><b>Q Test Inspection Ltd.</b> Bay 16, 7471 Edgar Industrial Bend Red Deer, AB T4P 3Z5 Canada</p>	<p>SPE 1000  Website: <a href="http://www.qtest.ca">www.qtest.ca</a></p>	<p>Matt Ellis 403-887-5630 <a href="mailto:matt.ellis@qtest.ca">matt.ellis@qtest.ca</a></p>
<p><b>International Testing Laboratory Inc.</b> Unit 105-12031 Horseshoe Way Richmond, BC V7A 4V4</p>	<p>SPE 1000  Website: <a href="http://www.intertestlab.com">www.intertestlab.com</a></p>	<p>Aman Jathaul Richmond, BC 604-238-5060 <a href="mailto:aman.jathaul@intertestlab.com">aman.jathaul@intertestlab.com</a></p>



<u>Certification Body</u>		<b>SPECIAL/FIELD INSPECTION AGENCIES</b>
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## 2-024 - USE OF APPROVED EQUIPMENT - EXCEPTIONS

There may be occasions where certification standards do not exist for approval of electrical equipment. A deviation shall be applied for in accordance with Rule [2-030](#).

## LIQUID-FILLED TRANSFORMERS

In the specific situation of liquid-filled transformers, certification organizations have yet to identify a demand for developing a product certification program around this electrical equipment. Consequently, certified liquid-filled transformers are not available.

### Conditions

Owners/users required to use liquid-filled transformers are permitted to deviate from Rule 2-024 of the CEC provided they meet the following conditions:

#### 1. Manufacturing standards

##### a) Manufactured to Canadian standards

Liquid-filled transformers are acceptable when the manufacturer declares that they have manufactured, inspected, and tested the transformer to the requirements of the appropriate and current Canadian standards. These standards include, but not limited, to:

- CAN/CSA-C2.1 Single Phase and Three Phase Distribution Transformers
- CAN/CSA-C88-16 Power Transformers and Reactors
- CAN/CSA-C227.3-06(R17) Low Profile, Single Phase, Dead Front Pad-mounted, Distribution Transformers
- CAN/CSA-C227.4-06(R17) Three Phase, Dead Front Pad-mounted, Distribution Transformers

##### b) Manufactured to other than Canadian standards

- Where liquid-filled transformers are manufactured to other than Canadian standards, the manufacturer must declare that the product has equivalent safety performance as one manufactured to Canadian standards. Alternatively, a





Professional Engineer may evaluate and accept the product standard to which the liquid-filled transformer was manufactured if it compares favorably with the appropriate Canadian standards concerning safety performance.

## 2. Product identification

In addition to meeting the requirements of Rule 2-100 of the CEC, the liquid-filled transformer must identify the standard to which it was manufactured. The following documentation of appropriate marking must also accompany the product:

- a) a manufacturer's declaration stating that they have manufactured the product to one or more appropriate Canadian standards; or
- b) when manufactured to other than Canadian standards:
  - i) a manufacturer's declaration that the product has equivalent safety performance as one manufactured to the appropriate Canadian standards; or
  - ii) a Professional Engineer's evaluation report indicating the product as having equivalent safety performance as one manufactured to appropriate Canadian standards.

## 3. Maintenance

The owner of the equipment shall ensure the product is maintained to industry standards and manufacturer's specifications.

## HV DOWNHOLE ESP'S (ELECTRICAL SUBMERSIBLE PUMPS)

Manufacturers, distributors, owners and installers of ESPs and associated down-hole cables shall be permitted to deviate from Rule 2-024 of the Canadian Electrical Code provided they meet the following conditions:

### Conditions

#### 1. Manufacturing standards

- a) Manufactured to North American Standards:

ESP's and/or associated down hole cables are acceptable when the manufacturer declares that they have manufactured, inspected, and tested the ESP's and/or associated down-hole cables to the requirements of the appropriate and current standards. These standards include but are not limited to:

- IEEE 252 Standard Test Procedure for Polyphase Induction Motors having Liquid in the Magnetic Gap.
- IEEE 1017 Recommended Practice for Field Testing Electric Submersible Pump Cable.
- IEEE 1018 Recommended Practice for specifying Electric Submersible Pump Cable Ethylene-Propylene Rubber Insulation.
- IEEE 1019 Recommended Practice for specifying Electric Submersible Pump Cable Polypropylene Rubber Insulation.
- Manufactured to Other than North American Standards:



Where ESPs and/or associated down-hole cables are manufactured to other than North American standards, the manufacturer must declare that the product has equivalent safety performance as one manufactured to North American standards. Alternatively, a licensed engineering professional may evaluate and accept the product standard to which the ESP's and/or associated down-hole cables were manufactured to, if it compares favourably with the appropriate North American standards concerning safety performance.

2. Product Identification

The following documentation for ESPs and associated down-hole cables must be readily accessible:

- A manufacturer's declaration stating that the product meets industry recognized standards; and
- Specification sheets stating the product's electrical ratings and characteristics.

3. Additional Requirements

- The installation is bonded to ground in accordance with Section 10;
- Proper overcurrent and overload protection must be provided in accordance with the CEC, Part 1; and
- All above ground components associated with the installations meets the requirements of the CEC Part 1.

**NOTES:**

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