

# TUV Rheinland of North America, Inc.

## North American Headquarters

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September 27, 2013

Robert S. Crow  
Process Innovations, Inc.,  
P.O. Box 25,  
Fowler, Ohio 44418

### **RE: Summary of Findings**

Type of Equipment: Belt Heater  
Model Designation: Model 19  
Test Requirement: 2006/42/EC (Machinery Directive), EN 60519-1:2011  
TÜV File Number: 31372497.001  
Project Number: 113708

Dear Mr. Crow,

TUV Rheinland of North America conducted an inspection and test on the Model 19 for compliance with the standards listed above. We regret, however, to inform you that there were non-conformances that need to be remedied in order to provide you with passing reports

The deliverables for this project are tests reports to EN 60519-1 and 2006/42/EC.

While you determine your corrective actions, your project has been placed on hold and the invoice will be issued for the evaluation to date.

After all the issues identified below have been addressed, please contact us to set up and schedule the final approval process.

Thank you for the opportunity to service your product testing needs. Please review the findings and feel free to contact me should you have any questions or comments.

Sincerely,

Ryan Braman  
Associate Test Engineer  
TUV Rheinland of North America

# Summary of Findings



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Client: Process Innovations, Inc.	Equipment: Belt Heater
Date: September 27, 2013	Model #: Model 19
File No.: 31372497.001	Serial #: N/A

This summary lists items, which could not be judged "PASS" or "N/A" during the assessment of the equipment.

The column "Clause" relates to the relevant clause of the test requirement.

The column "Remarks" details the deviation..

When responding to the open/fail items please observe the following:

1. Response is needed in order to issue a report stating compliance and/or a certificate.
2. Each item needs a documented answer.
3. Responses to our open/fail items can be made by using evidences like reports, certificates, specifications, photos, relevant manual pages or written statements.
4. Please mention the corresponding item number of the summary on each document you send.

Please do not send documents without reference to the summary.

Note: deviations listed once are not repeated in the tables following the initial listing, but need to be addressed if applicable to the test requirement.

# Summary of Findings



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Date:	September 27, 2013	Model #:	Model 19
File No.:	31372497.001	Serial #:	N/A

Test Requirement: EN 60519-1

#	Clause	Remarks
1.	14.3.3	<p><b>Does not comply:</b> First aid instructions are missing from the operating instructions, there is also no indication that that instructions will be brought to the notice of the personnel, a label is recommended to be placed on the machine referring to the manual.</p> <p>14.3.3 Instructions on the application of first aid to the victims of accidents of electrical origin shall be given in the operating instructions and brought to the notice of the personnel.</p>

Test Requirement: 2006/42/EC (Machinery Directive)

#	Clause	Remarks
2.	1.1.2	<p><b>Does not Comply:</b> EN 414 is no longer a valid standard for risk assessment. Risk assessment provided does not properly address all hazards such as hazards associated with transport, assembly, dismantling, disabling, and scrapping. It is recommended that the risk assessment is upgraded to EN ISO 12100</p> <p>(a) Machinery must be designed and constructed so that it is fitted for its function, and can be operated, adjusted and maintained without putting persons at risk when these operations are carried out under the conditions foreseen but also taking into account any reasonably foreseeable misuse thereof.</p> <p>The aim of measures taken must be to eliminate any risk throughout the foreseeable lifetime of the machinery including the phases of transport, assembly, dismantling, disabling and scrapping.</p> <p>(b) In selecting the most appropriate methods, the manufacturer or his authorised representative must apply the following principles, in the order given:</p> <ul style="list-style-type: none"> <li>— eliminate or reduce risks as far as possible (inherently safe machinery design and construction),</li> <li>— take the necessary protective measures in relation to risks that cannot be eliminated,</li> <li>— inform users of the residual risks due to any shortcomings of the protective measures adopted, indicate whether any particular training is required and specify any need to provide personal protective equipment.</li> </ul> <p>(c) When designing and constructing machinery and when drafting the instructions, the manufacturer or his authorised representative must envisage not only the intended use of the machinery but also any reasonably foreseeable misuse thereof.</p> <p>The machinery must be designed and constructed in such a way as to prevent abnormal use if such use would engender a risk. Where appropriate, the instructions must draw the user's attention to ways — which experience has shown might occur — in which the machinery should not be used.</p> <p>(d) Machinery must be designed and constructed to take account of the constraints to which the operator is subject as a result of the necessary or foreseeable use of personal protective equipment.</p> <p>(e) Machinery must be supplied with all the special equipment and accessories essential to enable it to be adjusted, maintained and used safely.</p>

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#	Clause	Remarks
3.	1.7.3	<p><b>Does not Comply:</b> Full address of the manufacturer is missing from the nameplate</p> <p>All machinery must be marked visibly, legibly and indelibly with the following minimum particulars:</p> <ul style="list-style-type: none"> <li>— the business name and full address of the manufacturer and, where applicable, his authorised representative,</li> <li>— designation of the machinery,</li> <li>— the CE Marking (see Annex III),</li> <li>— designation of series or type,</li> <li>— serial number, if any,</li> <li>— the year of construction, that is the year in which the manufacturing process is completed.</li> </ul> <p>It is prohibited to pre-date or post-date the machinery when affixing the CE marking.</p> <p>Furthermore, machinery designed and constructed for use in a potentially explosive atmosphere must be marked accordingly.</p> <p>Machinery must also bear full information relevant to its type and essential for safe use. Such information is subject to the requirements set out in section 1.7.1.</p> <p>Where a machine part must be handled during use with lifting equipment, its mass must be indicated legibly, indelibly and unambiguously.</p>
4.	1.7.4.1	<p><b>Does Not comply:</b> The words “Original Instructions” are missing from the manual</p> <p>General principles for the drafting of instructions</p> <ul style="list-style-type: none"> <li>(a) The instructions must be drafted in one or more official Community languages. The words ‘Original instructions’ must appear on the language version(s) verified by the manufacturer or his authorised representative.</li> <li>(b) Where no ‘Original instructions’ exist in the official language(s) of the country where the machinery is to be used, a translation into that/those language(s) must be provided by the manufacturer or his authorised representative or by the person bringing the machinery into the language area in question. The translations must bear the words ‘Translation of the original instructions’.</li> <li>(c) The contents of the instructions must cover not only the intended use of the machinery but also take into account any reasonably foreseeable misuse thereof.</li> <li>(d) In the case of machinery intended for use by non-professional operators, the wording and layout of the instructions for use must take into account the level of general education and acumen that can reasonably be expected from such operators.</li> </ul>

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#	Clause	Remarks
5.	1.7.4.2	<p><b>Does Not Comply:</b></p> <ul style="list-style-type: none"> <li>- The full address of the manufacturer is missing from the manual</li> <li>- The declaration of conformity is missing from the manual</li> <li>- The transportation, handling, and storage instructions are missing from the manual. This must also include the mass of the machinery.</li> <li>- Because the noise emissions level does not exceed 70 dB(A), a statement of this fact must be placed in the manual</li> </ul> <p>Each instruction manual must contain, where applicable, at least the following information:</p> <ul style="list-style-type: none"> <li>(a) the business name and full address of the manufacturer and of his authorised representative;</li> <li>(c) the EC declaration of conformity, or a document setting out the contents of the EC declaration of conformity, showing the particulars of the machinery, not necessarily including the serial number and the signature;</li> <li>(p) instructions with a view to ensuring that transport, handling and storage operations can be made safely, giving the mass of the machinery and of its various parts where these are regularly to be transported separately;</li> <li>(u) the following information on airborne noise emissions: <ul style="list-style-type: none"> <li>— the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A); where this level does not exceed 70 dB(A), this fact must be indicated,</li> </ul> </li> </ul>

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6.	ANNEX II	<p><b>Does Not Comply:</b> The Declaration of Conformity is missing the name and address of the person established in the EU authorized to compile the technical file, and the date of the declaration.</p> <p>A. EC DECLARATION OF CONFORMITY OF THE MACHINERY</p> <p>This declaration and translations thereof must be drawn up under the same conditions as the instructions (see Annex I, section 1.7.4.1(a) and (b)), and must be typewritten or else handwritten in capital letters.</p> <p>This declaration relates exclusively to the machinery in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user.</p> <p>The EC declaration of conformity must contain the following particulars:</p> <ol style="list-style-type: none"> <li>1. business name and full address of the manufacturer and, where appropriate, his authorised representative;</li> <li>2. name and address of the person authorised to compile the technical file, who must be established in the Community;</li> <li>3. description and identification of the machinery, including generic denomination, function, model, type, serial number and commercial name;</li> <li>4. a sentence expressly declaring that the machinery fulfils all the relevant provisions of this Directive and where appropriate, a similar sentence declaring the conformity with other Directives and/or relevant provisions with which the machinery complies. These references must be those of the texts published in the <i>Official Journal of the European Union</i>;</li> <li>5. where appropriate, the name, address and identification number of the notified body which carried out the EC type-examination referred to in Annex IX and the number of the EC type-examination certificate;</li> <li>6. where appropriate, the name, address and identification number of the notified body which approved the full quality assurance system referred to in Annex X;</li> <li>7. where appropriate, a reference to the harmonised standards used, as referred to in Article 7(2);</li> <li>8. where appropriate, the reference to other technical standards and specifications used;</li> <li>9. the place and date of the declaration;</li> <li>10. the identity and signature of the person empowered to draw up the declaration on behalf of the manufacturer or his authorised representative.</li> </ol>

**End of report**