



**IECEX Quality Assessment Report**  
**Certification Body: Underwriters Laboratories Inc.**

**QAR No.: UL QAR 08.07CA35975 (SR4722210)**

**Manufacturer (Auditee) :** Adalet, A Scott Fetzer Co.  
**Address :** 4801 W. 150<sup>th</sup> Street  
*Include post code/zip code* Cleveland, OH 44135  
 USA

**Production Site(s) :** Adalet, A Scott Fetzer Co.  
**Address :** 4801 W. 150<sup>th</sup> Street  
*Include post code/zip code* Cleveland, OH 44135  
*(List all additional sites)* USA

**Product(s) (range) :** Enclosures involving the following types of protection: Flameproof “d”, Increased safety “e”, Protection by enclosures “tD” & Protection by intrinsic safety “iD”

**No. of Employees : 250 / 80**  
*Include the total number of employees on site and those involved in production of Ex equipment*

**Scope of Audit :**  Initial Assessment  Re-assessment  
 Revision

*List all applicable Certificates (or attach copies) to which this audit applies and indicate product type.*

Electrical equipment with type(s) of protection       i     d     e     m     n     DIP (tD, iD)     other (specify)

- The revision includes the addition of the dust protection methods (“tD”, “iD”) to Adalet’s QAR, since these protection methods are now included in our scope. Adalet’s QAN already includes these protection methods. Therefore, the audit conducted on 2007-12-18 is considered to cover the requirements necessary to support this revision.

Audit of Product Quality Plans and Quality System to the requirements of IECEx OD 005/Version 2.  
 Other (specify)

**Audit Team Leader :**   
*Print name* **Erin O’Shea**

**Report Date :** 2009-03-31

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### 1. SUMMARY REPORT

#### **Assessment Summary and Conclusions:**

*State the most important **results** and **conclusions** of the assessment*

*The Adalet A Scott Fetzer Co., Quality Management System is well documented and implemented. Procedures, work instructions, forms and records were readily available in all locations where quality related activities were being performed. The Internal Quality Audit and CA/PA systems were effectively managed. Management review meetings are consistently scheduled and conducted on time and address key quality metrics, goals and objectives. Action Items generated during the management review meetings are followed up on in a timely manner by assigned personnel. The interface and interaction of key process areas and functions are well defined and effectively communicated to the staff. The general infrastructure is clean with good illumination and ingress / egress to production areas. In-process and final inspection quality records were readily available and accessible.*

### 2. Critical Suppliers / Sub-Suppliers

#### **Assessment of Critical Suppliers / Sub-suppliers**

*List critical suppliers / sub-suppliers. List address, phone numbers, contacts etc.*

**Metal Conversion**  
**Beck Aluminum**

#### **Nonconformities - None**

*Indicate the Serial No.(s) of nonconformities raised. Individual nonconformities are recorded on the nonconformity reports*

**Minor** non-conformance – corrective action to be verified at next surveillance visit

**Major** non-conformance - Corrective action plan to be forwarded to CB with specified time frame, and if acceptable, to be followed up at next surveillance visit.

No minor or major non-conformances issued.



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**Audit Team Leader Recommendations**

**X QAR to be issued/maintained** System is compliance with OD/005. QAR to be registered on the IECEx on line system [www.iecex.com](http://www.iecex.com)

**? QAR to be issued/maintained** following receipt of satisfactory documentary evidence supporting effective corrective action. Corrective action to be verified at next surveillance visit QAR to be registered on the IECEx on line system [www.iecex.com](http://www.iecex.com)

• **QAR to be issued/maintained\*** following a **satisfactory follow-up visit** and verification that corrective actions have been effectively documented and implemented

• **QAR** to be issued indicating that quality system no longer meets the requirements of OD/005. (This may require suspension or cancellation of any IECEx certificates)

\* delete where applicable

**Erin O'Shea**  
**Audit Team Leader**  
*Signature*

**Date:** 2009-03-31

**Report approval by Certification Body**

**Paul T. Kelly**  

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*(print name here)*  
**Certification Body Representative**  
*Signature*  
*Sign to accept audit teamleader*

**Date:** 2009-04-02



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**3. INTRODUCTION**

**Scope of Audit:** Type A initial assessment/reassessment of manufacturer with a certified QS\*  X  
Type B initial assessment/reassessment of manufacturer without a certified QS  □

*\* where manufacturer has a certified quality system include certification/registration body, date of registration, certificate No. and scope or append a copy of the certificate (including scope)*

**Reference documents used** : Ex/OD005/Version 2  
*Including Auditor's Checklists* EN 13980: 2002, Checklist  
*List any other reference documents against which* ISO 9001:2000 - Standard as it applies to the  
*Audit was conducted* manufacture of product with enclosures involving  
the following types of protection: Flameproof “d”,  
Increased safety “e”, Protection by enclosures  
“tD” & Protection by intrinsic safety “iD”

**Date(s) and Duration of Audit** : 2007-12-18, 1 day  
*Indicate total number of auditor days on site*

**4. AUDIT DATA**

**Composition of Audit Team:**

Name	Position	Role in Audit (Team Leader, Auditor, Technical Specialist, etc)
Al Madison	Quality Registration Services, Business Line Manager	Lead Auditor
Erin O'Shea	Project Engineer	Technical Expert

**Interviewed Representatives of Manufacturer (Auditee):**

*Include name and position*

Name	Position
John Jonscher	VP Engineering
Rob Clausing	Engineering Manager
Tim Snelly	Standards Manager
Russ Knight	Director of Quality



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**5. DOCUMENTATION REVIEW and ASSESSMENT of IMPLEMENTATION**

<b>IECEx OD/005 clauses</b>	<b>Assessed Y, N, N/A</b>	<b>Manufacturer's Doc. Ref.</b> List manufacturer's document(s) viewed, with revision status, pertinent details / level of compliance	<b>NCR Ref.</b>
<b>4 Quality Management System</b>		Sec 4.0	
4.1 General requirements	Y		
4.2 Documentation requirements	Y		
4.2.2 Quality manual	Y		
4.2.3 Control of documents	Y		
4.2.4 Control of records	Y		
<b>5 Management Responsibility</b>		Sec 5.0	
5.1 Management commitment	Y		
5.2 Customer focus	Y		
5.3 Quality policy	Y		
5.4 Planning & Quality objectives	Y		
5.5 Resp., auth., Internal comm.	Y		
5.6 Management review	Y		
<b>6 Resource Management</b>		Sec 6.0	
6.2 Human resources	Y		
6.3 Infrastructure	Y		
6.4 Work environment	Y		
<b>7 Product Realization</b>		Sec 7.0	
7.1 Planning of product realization	Y		
7.2 Customer requirements	Y		
7.2.3 Customer communication	Y		
7.3 Design and development	Y		
7.4 Purchasing	Y		
7.5 Production & service provision	Y		
7.5.3 Identification & traceability	Y		
7.5.4 Customer property	Y		
7.5.5 Preservation of product	Y		
7.6 Calibration	Y		



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<b>8 Measurement, Analysis &amp; Improvement</b>		Sec 8	
8.2.1 Customer satisfaction	Y		
8.2.2 Internal audit	Y		
8.2.3, Monitoring & measurement of	Y		
8.2.4 processes and product			
8.3 Control of nonconforming product	Y		
8.4 Analysis of data	Y		
8.5 Corrective & Preventive action	Y		

IECEx OD/005 Annexes	Assessed Y, N, N/A	Manufacturer's Doc. Ref. List manufacturer's document(s) viewed, with revision status, pertinent details / level of compliance	NCR Ref.
<b>Annex A: Guidance to particular types of protection</b>		<b>Annex A</b>	
A.2 Material composition of enclosures	Y		
<b>A.3 Ex d - flameproof enclosures</b>			
A.3.1 Castings	Y		
A.3.2 Machining	Y		
A.3.3 Cemented joints and potted assemblies	Y		
A.3.4 Routine pressure testing	N/A		
A.3.5 Flanged joints	Y		
A.3.6 Sintered components	N/A		
<b>A.4 Ex i – intrinsic safety</b>			
A.4.1 Components for intrinsically safe apparatus	N/A		
A.4.2 Printed circuit boards	N/A		
A.4.3 Sub-assemblies and assemblies	N/A		
A.4.4 Tests	N/A		
A.4.5 Intrinsically safe components in Ex d, Ex p or Ex q enclosures	N/A		
<b>A.5 Ex e – increased safety</b>			
A.5.1 Ingress protection	Y		
A.5.2 Internal wiring and contact integrity	Y		
A.5.3 Rotating machines	N/A		
A.5.4 Windings	N/A		
A.5.5 Tests	Y		



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**6. Observations**

*Additional assessor notes*

*Summary of audit trail (e.g. Who? What? Where? When? etc.) (Could be positive, negative, improvement, etc)*

Associated ExTRs:

US UL ExTR07.0015.00 – Series XIH and XDH Flameproof Enclosures, “d”

US UL ExTR08.0001.00 – XJXCX Flameproof Enclosure, “d”