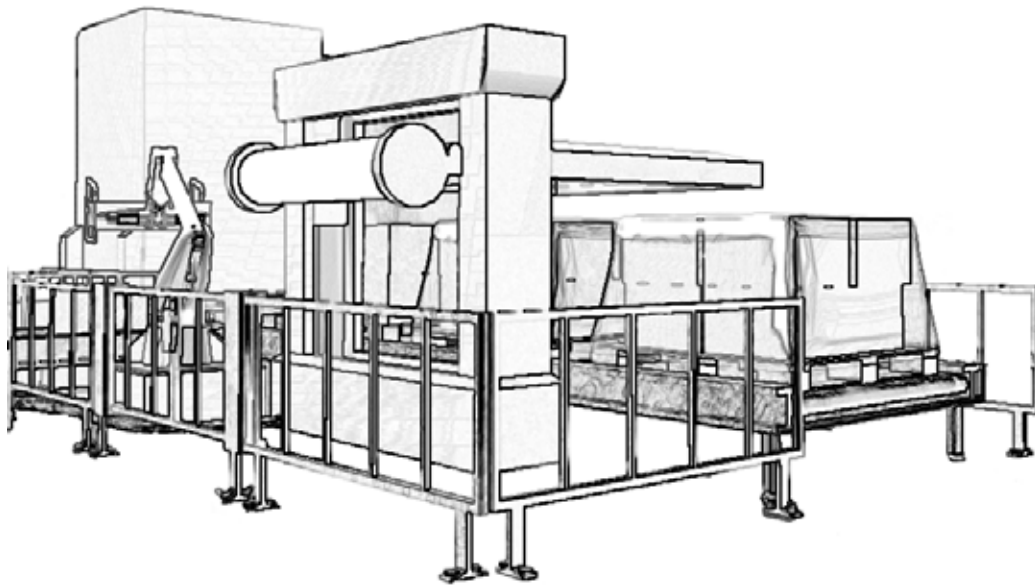




LAILLER
ASSOCIATES

Providing peace of mind that products are safe, reliable and compliant



Resume

Tel: +44 (0) 1642 345637 Fax: +44 (0) 1642 345643 E-mail: enquire@laidler.eu Web: www.laidler.eu

LAILLER ASSOCIATES Belasis Business Centre Coxwold Way Billingham Tees Valley UK TS23 4EA

Part of the Machinery Division of TÜV SÜD Product Service Ltd



Product Service

Contents

Foreword	3
Legislative background	4
Company Background	5
Laidler Associates	6
Laidler Certification	7
Laidler Training Services	8
Laidler Software	10
Standards Shop	11
Safety Systems	12
Guardsafe	13
Why Laidler Stands Out	15
Clientele	18
Staff members	19
Case Studies	24
Testimonials	32

Foreword

In the current climate of litigation and corporate manslaughter, health and safety has reached into all echelons of business life. The use of consultants has grown more prevalent as health and safety has grown wider in its scope, but at the same time, proving competence has grown increasingly difficult.

The Laidler Group of companies was created to offer customers the 'complete machinery safety solution' by offering a cost effective solution to your machinery safety applications. Covering all aspects of machinery safety from assessment to remedial work, there was a solution in the Laidler Group. In 2010, TÜV SÜD Product Service Ltd acquired the Laidler group, which now operates as the machinery division of TÜV SÜD Product Service. The machinery division currently consists of the following business units:

- I **Laidler Associates** – carrying out machinery assessments and testing such as CE Marking, risk assessment, work equipment (PUWER) assessments and EMC testing. Laidler have also produced mCom, machinery compliance software, which assist the user to carry out, CE Marking, PUWER and risk assessment.
 - o **Laidler Certification** – Notified Body for both the Machinery and EMC Directives
 - o **Laidler Training Services** – machinery safety training courses including one day workshops, 3-4 day practical courses and the unique University Certificate, accredited by Teesside University.

- I **Safety Systems** – compliance engineering solutions and safety product sales.
 - o **Guardsafe** – newly launched guarding service based at Safety Systems

Legislative Background

To enable countries in the European Union to trade successfully across boundaries, all industries have to operate under the same conditions. This required the introduction of harmonised legislation across the member states. Although it meant new or revised products, industry practices and standards, the legislation has had the effect of establishing common minimum standards for trade and safety across the European Union.

For this to happen, the European Commission embarked on a policy of harmonisation. Initially the Commission proposed Directives, which would identify a unified approach to the production and trade of products and goods across Europe. These Directives were prescriptive and it was felt that this was detrimental to both innovation and invention. To counter this, the Commission introduced the New Approach Directives (CE Directives). These Directives are not prescriptive and lay down minimum criteria for compliance. The aim is for the New Approach Directives to be similar in format for ease of reference and use. Perhaps the most significant aspect of the new legislation is the conformity assessment procedure (the means by which the compliance is ensured). The Directives offer a flexible approach, mainly based on trade and safety. Products from around the world can be sold in Europe, but they must meet the Directives and be safe (for example toys).

When a New Approach Directive has been adopted by the Commission it is a legal requirement for each Member State of the European Union to introduce the Directive into its own legislation. These Directives are integrated within the Member States legislation, which necessitate amendments to the existing legislation to enable a co-ordinated approach to be adopted. The Commission projected that 80% of all products sold within the Union would carry CE Marking by the year 2005. This will allow businesses (when complying) to trade in a market of approximately 350 million people.

SIGNIFICANT DIRECTIVES

Machinery Directive 2006/42/EC

EMC Directive 2004/108/EC

Low Voltage Directive 2006/95/EC OTHER

DIRECTIVES

Amending Directive to the Use of Work Equipment Directive – (PUWER '98)

Company Background

Pre-Laidler Associates

The first campaign to raise awareness in the North East of England to the implications of European safety legislation was initiated by Paul Laidler. Seconded from his post as Senior Lecturer in the Electrical Engineering Department of Longlands College in 1992, he formed and managed the Longlands Advisory & Consultancy Services (LACS). Through LACS, he introduced the regions first dedicated support service for the Machinery Directive which was initially supported by DTI North East.

LACS, which was a wholly owned subsidiary company of the college, was awarded a succession of European grants to provide support for smaller businesses and became one of the few UK organisations to win government recognition for its machinery legislation support services. Paul managed many European funded projects the largest being a £1.2 million Adapt project involving transnational European partners assessing the impact of CE Marking throughout Europe.

Under his management, LACS rapidly expanded from a regional organisation into an international consultancy with a reputation as a leader and an innovator. Its practical approach to consultancy, training and project management established particularly strong client relationships in Korea, Japan, North America and Europe.

In 1998, the leading members of Longlands Advisory & Consultancy Services, including Paul Laidler, formed an independent company, Laidler Associates Consulting Service Ltd. This allowed them the flexibility to expand and provide an extensive range of specialised consultancy services in the area of European Directives, Safety Systems and related Health and Safety topics.



Laidler Associates

Laidler Associates is a dynamic company, made up of individuals who have identified and optimised a commercial opportunity in the new initiative of European trade and safety legislation. They grasped the opportunity and established a highly successful and expanding business before many companies were fully aware of the UK's pursuit of European Harmonisation and compliance with European legislative demands. Establishing themselves at the forefront of this area has allowed Laidler Associates to develop a knowledge base, which is second to none.

Expertise and knowledge is crucial to a venture of this type and Laidler Associates have expanded their workforce by employing recognised and respected figures from within their target industries. The result of this recognised skills base and a customer-focused outlook, is a global reputation for quality of service and optimum cost effectiveness.

This reputation has been built on a system of flexibility and quality of service, focussing on how best to fulfil the needs of the client, providing the solution not the problem. This customer focus has allowed Laidler Associates to be proactive to the customers' needs and hence grow in stature and expand the services with financial investment, thereby maintaining parity with clients' demands.

The directors and staff of Laidler Associates have worked extensively throughout the UK, Europe, the Far East and North America, guiding a large number of the world's major industrial organisations to achieve compliance with the Machinery Directive, EMC Directive, Low Voltage Directive, other associated Directives, Semi Guidelines and Safety topics.

Their collective experience of helping businesses to find the most cost-effective and practical route to compliance is probably unmatched by any other consultancy. As an independent company Laidler Associates Consulting Service Ltd has the flexibility to expand and address new initiatives created by commercial and legislative demands.

Based on this practical knowledge, they have put together a comprehensive range of services including training, Seminars, Consultancy, Customised Software, full Project Management of CE Marking, PUWER98 compliance, and Risk Assessment which can be tailored to meet each client's specific needs.

Safe Contractor Scheme Laidler Associates are members of the UK Safe Contractor scheme. This scheme is used by many blue chip companies in the UK. Companies accredited by the scheme have their safety policies and procedures independently verified, giving their clients peace of mind.

Laidler and TÜV SÜD Product Service

TÜV SÜD Product Service Ltd, based in Fareham, Hampshire, and BABT, based in Walton on Thames, Surrey are part of the Certification Division of the TÜV SÜD Group, which employs over 13,000 people in 600 locations, and is one of the leading technical service companies in the world

TÜV SÜD's history goes back over 140 years to the 1860s, when a number of independent TÜVs were founded by the German steam boiler industry to regulate and supervise the safety of steam installations in the interest of public safety. With the advancement of technology, the original TÜV association in Bavaria expanded its presence and capabilities to meet the challenges of progressive deregulation, liberalisation, and harmonisation of trade practices throughout the world. It has now become the TÜV SÜD Group, the largest of the three remaining, competing "TÜVs".

TÜV SÜD Product Service supplies independent testing, certification, qualification, training and market access services to a wide range of industry sectors including the Aerospace, Defence, Machinery, Medical, Telecoms, Rail, Retail & Consumer industries, has been operating in the UK for over 50 years. BABT is the world's leading Telecommunications certification body. Between them, they employ 1600 experts in 20 countries and hold over 100 international accreditations to test and certify products according to many national and international regulations and industry standards. Laidler Certification is a Notified Body for Annex IV machinery and Competent Body for the EMC Directive.

Our services include mechanical, environmental simulation, electro-magnetic compatibility, radio and safety testing, which we can perform at our UK facilities, or in-situ at clients' premises, as well as machinery safety assessments, training and auditing. We can also issue a wide range of internationally-recognised certification marks that will demonstrate your products' and services' quality and reliability to your customers.

Why Laidler stands out

The Laidler Associates mission contains the following statements:

- “To provide our clients: manufacturers, suppliers and users of equipment; with the optimum cost effective method of compliance with legislative demands.
- To always provide the best current advice.
- To focus on practical, cost effective assistance.
- To provide solutions to our clients’ problems
- To ensure we provide effective communication with our clients.
- To continue to cement long lasting client relationships.
- To be acknowledged as a leading player in the field of machinery safety both nationally and internationally.”

As a company, we work towards these ideals and it is this aim that we feel has made the difference between success and failure for us as a company. There are several key factors that we employ in a bid to carry out our aims. We are:

- Flexible in terms of meeting timescales and locations
- Adaptable in terms of dealing with new legislation and tailoring services to the client
- Practical in terms of the assistance and guidance that we provide

This is the ethos to which Laidler Associates works. By striving to provide the best possible practical and cost effective service, we have been able to build close working relationships with our clients. We regularly collect feedback from customers once a project had been completed. Key phrases from them include: “Engineers were always helpful & friendly”, “all work completed satisfactorily to a high standard”, “excellent service” and “professional”.

Laidler Associates has been built on forming and managing client relationships. We look to our clients as colleagues. It is important to us that our clients are confident that they can simply ask us for advice and that, where possible, we will always answer them in a straightforward manner and as quickly as possible.

The feedback gained from the survey forms allows us to monitor our level of service whilst potentially suggesting areas for improvement. To this end we also mailed a research form to obtain ideas from our key clients as to how we may improve and in what areas they feel we may be able to expand in order to be of benefit to them.

The difference between success and failure can be very small for a business and we firmly believe that aiming

for service excellence is a key factor and building and continuing a successful business.

“To provide our clients -manufacturers, suppliers and users of equipment -with the optimum cost effective method of compliance with legislative demands.”

The above statement is a key element in the Laidler Associates Mission Statement. To provide optimum, cost effective methods relies on the both the knowledge and flexibility of staff and it is these factors that we believe differentiate us from our competitors.

In order to show this, let us first take a look at who our competitors are. Companies dealing with compliance issues tend to fall into one of two categories. First of all there are the large national and multi-national corporations such as BSI, SGS and Lloyds who have well proven business backgrounds and excellent credentials. At the other end of the scale, are the very small one and two person companies who may have good flexibility in adjusting to clients timescales, but may not have the recognised knowledge and credentials.

We feel that Laidler Associates provide service that is equal if not superior to the multinationals, without forgetting our routes in the North East SME community. We are members of three local health and safety groups and have provided talks for these groups on a regular basis. We have also worked with several Business Links in the North East and have presented to the Tees Valley branch of IOSH on numerous occasions. Through Laidler Certification we have the recognised and assessed credentials of the larger multi-national companies, whilst having the hands on experience and flexibility of the smaller localised businesses. Combining these two factors is relatively unique, something that we pride ourselves on as we are now competing directly with multinational companies.

Perhaps the key factor is flexibility. Following the latest expansion in staffing we now have 12 full -time engineers made up of both electrical and mechanical specialists. Four of these engineers can work on both electrical and mechanical projects. This allows a great deal of flexibility as to who is available at any one time, allowing Laidler Associates to adapt to almost any timescales placed on them by a client.

Another aspect of our flexibility can be shown by looking at the Electromagnetic Compatibility (EMC) test equipment. Whether a project requires pre-compliance or full compliance testing, we have established a service whereby the equipment can be take anywhere in



the world to carry out testing services where the machinery or equipment concerned is placed. This kind of locational flexibility has meant that we are often called in by clients who find it easier to fly our engineers and equipment to their site rather than move machinery to a test facility.

Being all things to all men is an impossible aim, but we feel that having the recognised and assessed credentials of a multinational, alongside the flexibility of a small business is of great advantage to us and something that differentiates us from our competitors. We work to the clients requirements; they do not have to adjust to ours. Flexibility in terms of both timescales and location of work is one of the key factors of the Laidler Associates' success.

Divisional Businesses



Laidler Certification

Laidler Associates created Laidler Certification, which has achieved Notified Body Status allocated by the European Commission and recognised by the DTI (number 0870). Laidler Certification is one of only a small number of Notified Bodies for Machinery in the UK. Paul Laidler is the Operations Manager for this. Subsequently, Laidler Certification gained Notified Body status for the Electromagnetic Compatibility (EMC) Directive, giving further evidence of the recognised knowledge and experience within the group of companies.

Machinery Directive As a Notified Body for the Machinery Directive, Laidler Certification can complete the conformity assessment procedure for most equipment listed in Annex IV of the Machinery Directive. Conformity procedures can include Type Examination, holding the technical File and the newly introduced quality assurance route.

Electromagnetic Compatibility Directive (EMC) As a Notified Body for the EMC Directive, Laidler Certification can complete the Technical File route to conformity.

Semiconductor Industry Leading members of Laidler Associates are heavily involved in the Semiconductor industry and sit on the European and Global EHS committees. Laidler Associates, through Laidler Certification, provides confidential independent 3rd party evaluations based on Semi S2 and Semi S14 Inspections and the Sematech Guidelines, which are the industry safety guidelines and Standards used worldwide for the Semiconductor Equipment Manufacturing Industry.

Laidler Certification meets the stringent global Semi guideline requirements for total independence and confidentiality in Safety Appraisals, which are carried out on site, anywhere in the world. Providing cost effective certification, for Semi S2, European CE marking, which includes Low Voltage, EMC and Machinery Directives, as well as field labelling, the Laidler Certification service includes continual support and advice on safety issues from initial design to manufacture and beyond. Paul Laidler was chairman of a global Task force which rewrote the Semi S10 standard on Risk Assessment.

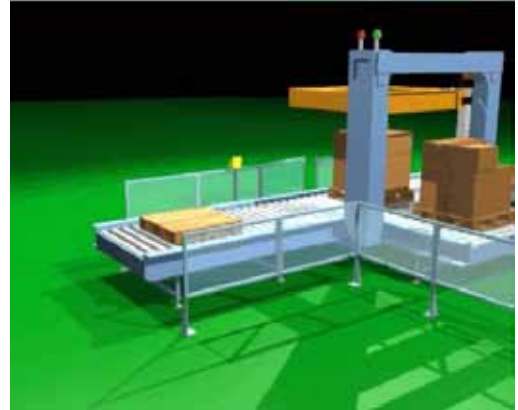
Laidler TRAINING

Laidler Training Services

Since the company was formed, Laidler Associates have provided training services for our clients, which can be tailored and delivered to fulfil their needs. These are now offered under the banner, Laidler Training Services.

Courses that we regularly run include Machinery Safety legislation; Health & Safety, including Manual Handling; Electrical and Mechanical European standards; and Risk Assessment. As

part of our continual development process of these training courses, it became clear that our trainees needed a visual and interactive system to be introduced. To fill this need, we developed a 'virtual' machine that we work on during the sessions. This allows the trainee to 'see' what problems occur and how they can be overcome. We regularly gain excellent feedback from these training sessions, purely because of the virtual reality model.



In 2004, we decided to refresh the virtual machine and developed a truly virtual environment. The system has a number of 'non-conformities' built into it which are then corrected during the workshop.

Over a few years, customer feedback showed that there was a need for a recognised qualification in Machinery Safety. Laidler explored a number of avenues before deciding that the best route was to produce an academic qualification that could be incorporated into a

company's workforce development programme. Through partnering with Teesside University, Laidler have produced the world's first University Certificate in Professional Development for machinery safety. It was launched in Autumn 2008 and is run on both a public and in-house basis. This certificate has required further development of the VR machine as it now forms part of the course assessment process, allowing trainees to carry out a full PUWER and CE assessment. Launching in Autumn 2011 are the additional UCPD courses



covering Electrical Machinery Safety, Functional Safety of Machines and Robotics & Automation.

mCom Software

Documentation is a major part of compliance with any legislation, and machinery safety is no exception. When dealing with CE Marking to the Machinery Directive, a Technical Construction File needs to be created containing documents such as risk assessments, drawings etc.



Laidler engineers generate an enormous amount of paperwork, carrying out CE Marking and risk assessment for their clients. A solution was required to assist with the production of the necessary paperwork and the decision was taken to produce a software system simplify this process. This system was rewritten in 2002 to deal with the changes made to PC operating systems. It has now been rewritten for 2010 to cover changes to the Machinery Directive and the newer control integrity standards. The flexibility of this system allows Laidler to create specific checklists which can be incorporated into mCom.

On opening the software, the user is faced with the screen below. When the software is opened for the very first time, no projects exist in the system, hence the user is given the choice of creating a project for new or existing machinery.

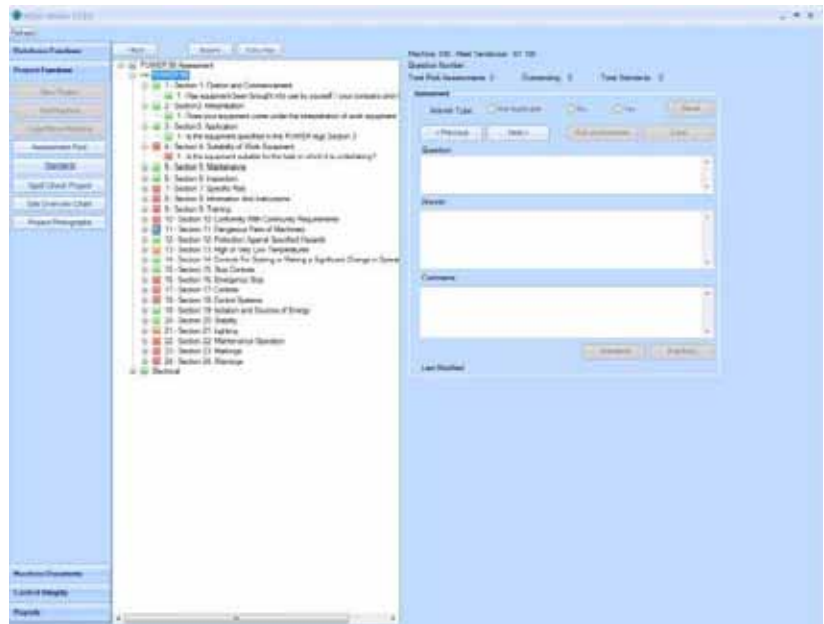


Clicking the New project button, opens up the floating window shown to the right which allows the user to choose which type of project is to be started. Project details should be input at this point. To add a machine into the project, you would click the add machine button which brings up the following floating window where all the details for the machine can be input.



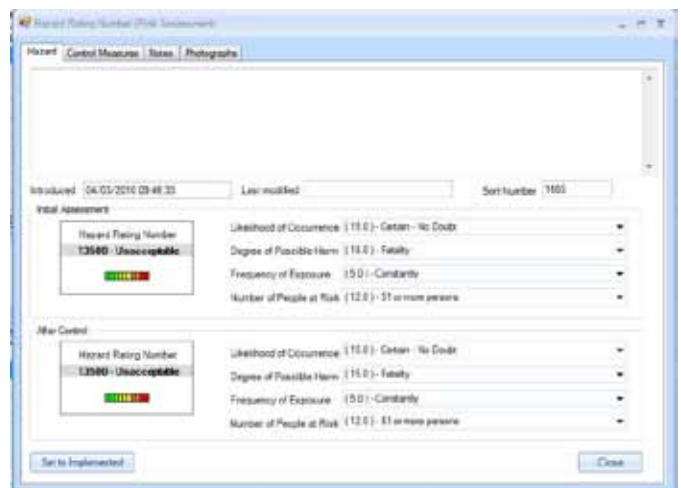
PUWER Project

Once the machine details have been input, the assessment can be carried out. Laidler Associates have broken down PUWER 98 into a series of questions that can be answered as either yes, no or not applicable. A 'no' answers requires a risk assessment to be carried out, which can also be carried out within the system.



Risk Assessment

Laidler use a Hazard Rating Number system for risk assessment. Each category (Likelihood of Occurrence, Degree of possible Harm; Frequency of Exposure and Number of Persons at Risk) can all be given a numerical rating. When these ratings are multiplied together, they give a level of risk between Unacceptable and Negligible. Once a control measure is considered, a new assessment can be carried out to see if a significant change has been made to the risk category.



CE Marking Project

The Supply of Machinery (Safety) Regulations which implements the Machinery Directive in the UK, has been broken down in a similar manner to PUWER. Compliance must be shown with the EHSRs (Essential Health and Safety Requirements) and it is this element that has been put into the yes, no, not applicable format. The user can then also link other essential

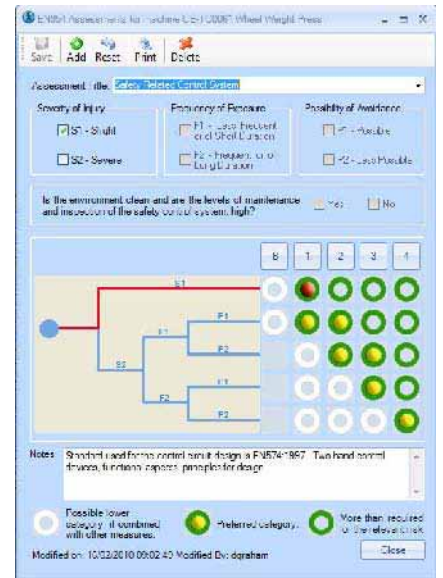


documents such as drawings, manuals etc, to enable the swift production of a technical construction file.

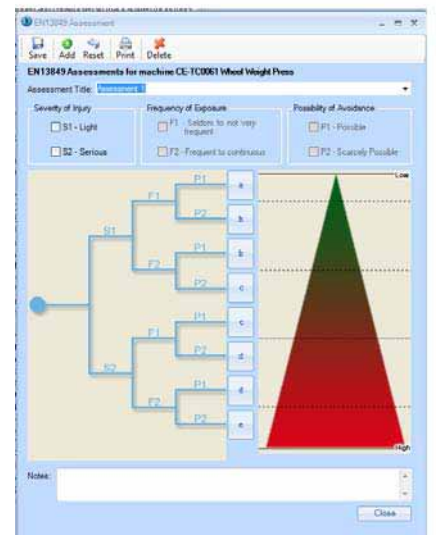
Control Integrity

One of the main changes in this version of the software is the ability to carry out EN ISO 13849-1 and EN 62061 assessments, alongside the more familiar EN 954-1

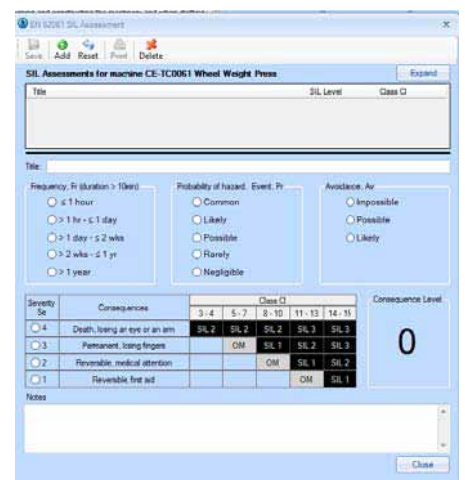
EN 954 is the standard for safety related parts of the control circuit. The assessment defines what level of circuitry is required for the machine being assessed. The assessment screen is shown on the right.



EN ISO 13849-1 is the successor to EN 954-1 and the initial assessment looks very similar (see right). The main difference being that you are now dealing with Performance levels instead of Categories as in EN 954 -1. The other change is that following this initial assessment, you are required to carry out validation to show that the Performance level selected is correct. The software doesn't carry out this validation, only the initial assessment.



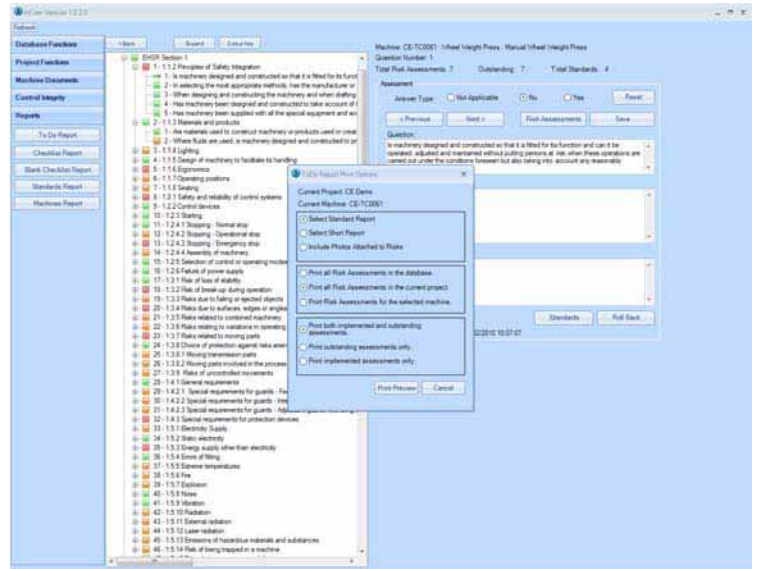
The third assessment under control integrity is to EN 62061. This standard also requires validation, once the initial assessment has been carried out. The initial assessment defines the safety integrity level required for the machine concerned.



Reports

Reports can be printed out from the system, creating the necessary paperwork.

The checklist is the full assessment report, showing all answers that have been made. The To Do list is a shorter list of what remedial work needs to be carried out.



To Do Report



Version: 04 March 2010

Machine Details

Serial Number:	CF T00061	Type:	Wheel Weight Press	Model:	Manual Wheel Weight Press
Manufacturer:	ACM Motors - UK	Power Supply:	Pneumatic	Location:	New Town
Building:	Lira 1 Trim & Co. units	Area:	Kaizen	Date Assesed:	15 February 2010
Team:	Laidler Engineers				
Notes:	Manually operated machine designed to consolidate the stick on wheel weights to the inside of the wheel.				

Sequence Number: 1 Sort Number: 2 Significant: 00

Section: 1 1.1.2 Principles of Safety Integration
 Question: 1 Is machinery designed and constructed so that it is fitted for its function and can it be created, 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?

Hazard/Description	Control Measures
Injury due to discomfort, fatigue and physical and psychological stress faced by the operator.	Ensure an ergonomic assessment is carried out on the machine when it is installed in its position. Ensure the installed machine is able to accommodate the details of an assessment showing the best to set installation. (i.e. height, reach, etc).

Notes

INITIAL					AFTER						
LO	FE	DPH	NRN	Degree of Risk	LO	FE	DPH	NRN	Degree of Risk		
2	5	2	-	20	Significant	0	1	2	-	0.02	Negligible
Introduced		Completed By			Completed Date		Implemented				
15 February 2010		Nissan Motor Manufacturing UK Ltd									

Safety Systems

Safety Systems was formed to offer a fully independent safety product solution at a time when products were generally only available direct from manufacturers. Finding this niche area, Safety Systems grew successfully to cover the M62 corridor, supplying a full range of products from all manufacturers on the UK market. Wanting to expand further, a partnership with Laidler Associates was born to widen the scope of both companies by offering a complete solution from design to sign off.

Laidler Associates' clients had requested a more complete solution and this partnership grew for the benefit of both companies, which allowed Safety Systems to become an integral part of the Laidler Group of companies.

Safety Systems provides engineering services to ensure machinery compliance, including full engineering project management of compliance solutions bespoke guarding and safety product sales.

As market leaders in machinery safety compliance engineering, we have the knowledge and experience to design and install the most appropriate safety solutions using products from our wide ranging portfolio from leading manufacturers.

Our solutions can be supplied on a variety of levels:

- A complete safety solution including **risk assessment**, safety inspections and engineering project management, taking a machine through a full compliance procedure on your behalf.
- Engineering project management of a total solution. This involves designing, manufacturing and installing appropriate safety solutions to ensure full compliance with all relevant legislation.
- Supply and/or install appropriate and cost effective products to fulfil your requirements.



As we are not tied to any particular suppliers of safety products, we are able to source the most appropriate safety products to meet your requirements.

Below is a brief summary of our product range. This is not an exhaustive list, just a summary of typical products that we supply.

1. Key coded interlocks
2. Safety Relays
3. Light guards
4. Safety switches
5. Emergency Stop Devices

Guardsafe

Guardsafe is the newly launched service from Safety Systems, offering a complete safety guarding service including full CAD design, build and installation.

The new Machinery Directive, 2006/42/EC introduced on December 31st 2009, fundamentally changed the requirements for machinery guarding. Guarding is now defined as a product providing a safety function which is independently placed on the market and hence must now carry CE Marking and be issued with a Declaration of Conformity.

All Guardsafe products will be fully compliant with the relevant machinery safety legislation including the Machinery Directive and relevant EN standards such as BS EN 953, BS EN ISO 13857 and BS EN 349. All guarding will also carry CE Marking and come with a Declaration of Conformity.

Guarding solutions are offered to fulfil customer requirements. If an 'off the shelf' solution is the most suitable and available, then this will be suggested. However, if a bespoke solution is required, then this will also be suggested. Guardsafe aim to offer the best solution that will fulfil all customer and legal needs.

Alongside the physical guarding aspects or machine guarding, Guardsafe can also include all relevant control systems such as interlocks and sensors and will again suggest the best solution to fulfil both customer and legal requirements.

One of the key features of a Guardsafe project is the use of CAD technology to produce accurate 2D and 3D representations. This allows the end user to 'see' how the guarding will fit into their work environment, enabling changes to be made to ensure that the end result is both fully compliant and user friendly.

Clientele

Jointly, Laidler Associates and Safety Systems provide a practical approach, balancing the needs of production against the safety requirements. As a group we provide consultancy, assistance and advice to many of the largest global companies across the world including:

3M	Dairycrest	Procter & Gamble
Gillette	Heinz	Royal Mail
BNFL	Samsung	Greggs
Honeywell	Toyota	Avery Dennison
Nissan	Johnson & Johnson	De la Rue
Honda	Whitbread	Britvic
Nestle	Dupont	Vauxhall Motors
Kellogg's	Smith & Nephew	BAE Systems
Siemens	GE Healthcare	Bentley Motors

Staff and Associates

DIRECTORS

Paul Laidler was responsible for initiating the first campaign to raise awareness in the North East of England to the implications of European safety legislation. Through his involvement with Semiconductor manufacturers, Paul has been invited to work alongside representatives of some of the world's best known companies in producing Global safety standards for the semi conductor industry. Paul was chairman of the global Task Force, which revised the Risk Assessment standard (S10) for the Semi Conductor Industry.

Paul is now recognised by CEN as an expert on European Directives and has been involved with training in Bulgaria, Hungary, Poland, Romania and the Czech Rep on behalf of the European Commission.

His fellow directors in Laidler Associates all combine a sound practical background in industry with a vast international experience.

Mark Smalles spent 11 years in steel fabrication industry, including 3 years as a Quality Manager, 2 years as a Works Manager and 2 years as a Health and Safety Engineer, before joining LACS as a Technical Advisor. **Mark has been appointed by the European Chamber of Commerce to provide training on CE Marking Directives in many of the Central European Countries (CEC) including Latvia, Poland and Romania.**

Derek Coulson is a Mechanical Engineer with general machinery experience. He deals with all types of machinery including Vehicle Type Approval and specialist equipment mounted on vehicles. He was a Service Technician and managed a Service Organisation before joining LACS as a Technical Advisor. Derek was appointed to the Paper Industry Technical Association Engineering Working Group and worked with the HSE Pabiac Committee producing 'Making Paper Safely' and 'Rewinding Safely'.

Laidler Associates has expanded greatly since its formation in 1998. The following are the current staff members, who have been selected for the knowledge and expertise in their given areas.

Bill Raine is a specialist in CE Marking for the Machinery Directive for complex machinery and Annex IV equipment such as presses. He carried out Notified Body assessments and has worked heavily in the Semiconductor Industry carrying out SEMI S2 Inspections.

Michael Armstrong is an experienced maintenance engineer and has worked in various industries including food and drink. He is NEBOSH qualified and has recently become a qualified Functional Safety Engineer.

Paul Taylor is an experienced service and process engineer with a background in high volume manufacturing. He is proficient in machine installation and calibration, as well as fault finding down to component level.

David Graham is an electrical engineer with a background in tyre manufacturing. He has project management experience, in particular with PLC and servo drive programming.

Stephen Bell is an electrical engineer from the semiconductor industry. He has experience of service, maintenance and support engineering roles dealing with both hardware and software issues.

David King is an Electronics Test and Measurement engineer, who currently specialises in EMC onsite testing. He has experience of instrumentation calibration, testing and diagnostics.

Ian Wright is a Process Engineer, experienced in all aspects of mechanical and electrical repair and maintenance.

Brian Matthewman worked in the construction industry doing various roles including Health & Safety Advisor, college lecturer and Training Officer in charge of government contracts. Last 7 years working for the CITB developing safety awareness and legislation compliance for local businesses. Brian delivers the UCPD and multi-day training courses

Barry Alderson has extensive experience of the automotive industry having worked his way to Senior Engineer at a North East based car plant. He was central to the development of a European standards team, dealing with CE Marking across plants in England and Spain.

Warren Spiers joined the Laidler Group from a market leader in trap key interlocking. Initially placed to continue Safety Systems' growth as a turn-key safety solution provider, he now works with Laidler Associates assisting clients with their compliance needs.

Gary Robson is an IT specialist with wide experience of programming in many areas, application

development, web design, database design, systems administration and maintenance. He has worked in both the public and private sectors administering computer systems and databases.

Chris Norris has a background in graphic design and publishing and provides the marketing function for the company, organising all events, workshops and training.

Daniel Kay assists with group IT and looks after the group websites. He has experience of programming, networking and search engine optimisation.

THE ASSOCIATES

Principal Associates include:

Bob Rippon -a woodwork machinery specialist with 39 years experience. He was the UK representative on the European Harmonised Standards group, which developed standards for the industry. His expertise in this field with Annex four wood working machinery is unsurpassed.

Bob Mackrell -a Mechanical and Design Engineer based in the South West of England. He worked for the Rural Development Commission for fifteen years assisting companies with detailed design and CE marking issues. Bob specialises in writing instruction manuals.

Paul Fieldhouse – is an electrical engineer with experience of project managing safety remedial work. He is adept at problem solving with installations and has experience of electrical and lock out/ tag out assessments.

David Kirton MISM AMIRTE spent 23 years in the RAF as a Mechanical Engineer. He was Quality/safety manager of a large repair and build facility and was the senior Technical Advisor with LACS for 5 years. As well as general machinery, Dave specialises in large industrial projects including:-link spans, road/waterway bridges, lifeboat stations.

Safety Systems Staff and Associates

DIRECTORS

Brent Hudson –has worked extensively with Tobacco, Pharmaceutical and surface coating Industries equipment and has a vast knowledge of control systems for complex installations. Brent is also recognised by CEN as an expert on European Directives and has been involved with training throughout Europe on behalf of the European Commission. He now oversees the projects side of the Safety Systems Business.

Gary Trehitt –has extensive experience in the safety product field having worked for a number of key businesses within the sector including SICK and Guardmaster. Since joining Safety Systems, he has headed up the group sales functions.

Safety Systems has expanded greatly since its formation. The following are the current staff members, who have been selected for the knowledge and expertise in their given areas.

Allan Harris -joined Safety Systems to assist with the Machinery Guarding aspect of the business. Allan brings experience as a project manager to the role including 3-D AutoCAD design.

Mark Burley – project manages many of the Safety Systems engineering projects and provides an internal resource when the engineers are away from the office

Simon Deighton – is an experienced sales engineer with a background in supplying to the food and drink sector. His specialist area is that of IP69 requirements

Case Studies

Safely Baked

Membership of a local safety group can have many benefits to a company, networking with like minded professionals being just one. Laidler Associates are regularly invited to speak at these meetings, and this was the case in December 2000 when Paul Laidler agreed to present a talk on the Provision and Use of Work Equipment Regulations (PUWER) .



As ever at these meetings, questions were asked afterwards and business cards were exchanged. One interested attendee was Steve Peat, Group Health and Safety Manager for Greggs plc. Being aware of the importance of PUWER and the necessity for inspections, Steve asked Laidler Associates to carry out a full inspection of one of its production facilities in Newcastle Upon Tyne. Using the Laidler Associates' Risk Management Software system, a full assessment was carried out by a team of Laidler engineers with Steve being given a report and an in-depth 'To do list'. Greggs were so impressed with the in-depth nature of the report, they decided to keep conformity in the assessment of the group sites, and asked Laidler Associates to undertake the assessments.

Steve was particularly impressed with the friendly, informative attitude of all of the engineers involved in the assessment process. Their depth of knowledge, attitude and willingness to assist in finding workable solutions was very reassuring and helped Greggs put the necessary control measures in place. Nine months later, (at the time of writing) and Laidler Associates have inspected nine major bakeries, with others planned in the near future. "The Work Equipment Directive in its updated form has been in place for three years now", said Paul "and yet many companies are still not complying with the legislation, especially in terms of regular inspections. Greggs as a group should be complimented on their attitude and forward thinking".

It's a Bugs Life



Due to the wide scope of the Machinery Directive, Laidler Associates often get asked to CE Mark some very unusual machines, none more so than the Bacceleator, a natural solution to poor performing water treatment plants. It is produced by Cleveland Biotech and has been shortlisted for the 2006 Innovation Award at the Tees Valley Business Awards. It has also recently won The One North East R&D Grant Award for the Environment. It works automatically adding selected bacteria into a chamber containing continuously fed waste water. This boosts the resident microbial activity of the treatment plant.

Having been approached by Cleveland Biotech to CE Mark the Bacceleator, Laidler brought in Safety Systems to work with Cleveland Biotech to design and build the prototype system. Having been given the working parameters such as overall container dimensions and water depths, Safety Systems designed and built the internal workings, and control system, with guidance from Laidler Associates about the CE Marking requirements. Safety Systems sourced a number of key parts, including the transformers in order to complete the prototype machine.



Once the prototype was built and was running under test conditions, Laidler Associates finalised the CE Marking, having carried out various risk assessments during the building process. Laidler engineers EMC tested the prototype and the finalised Technical Construction File before signing the Declaration of Conformity.

Since then, Cleveland Biotech have taken over the production of the Bacceleator and have sold a number of units across the UK. They are currently in discussions in order for the unit to work in Dubai.

LAILER ASSOCIATES MAKES ITS MARK ON PORTUMNA BRIDGE!

With the aid of services provided by Laidler Associates, the refurbished Portumna road bridge in Galway has become the first bridge in the Ireland to carry CE marking. The CE marking was needed because the bridge has moving parts – it is a swing bridge – and it therefore falls within the scope of the Machinery Directive. Laidler Associates also helped to ensure that the bridge met the requirements for EMC certification, and that it satisfied the Safety, Health and Welfare at Work (General Application) Regulations.



Spanning the Shannon River, Portumna Bridge was originally built in 1911 and is part of the busy N65 route that links the counties of Galway and Tipperary. When it was decided that this ageing but vital structure needed to be refurbished, Waterways Ireland awarded the order for design specification, contract preparation and project supervision to Royal Haskoning, who appointed L&M Keating to carry out the building and

installation work.

Royal Haskoning recommended that Laidler Associates should be used to provide the consultancy services needed to ensure that the bridge met all relevant legal requirements and, in particular the requirements for CE marking. “We chose Laidler Associates because of its excellent track record, and because it has more experience with movable structures than any other UK consultancy,” said Jane Arbuckle, Technical Director, Mechanical and Electrical Engineering, at Royal Haskoning.

“In addition, we were impressed by the company’s proactive approach. For example, it offered a one-day safety workshop and two presentation sessions at the start of the contract to ensure that all of those working on the project were fully briefed on health and safety issues. The information that Laidler Associates provided at the sessions was of great practical value.”



After these preliminary sessions, Laidler Associates carried out detailed hazard assessments covering all aspects of the bridge design and construction. Consultants from the company also visited the site during the construction work and, when the work was complete, they carried out a detailed final inspection before certifying the structure.

“The regulatory compliance and certification work carried out for us by Laidler Associates went very smoothly,”

said Jane Arbuckle. "The company was very professional in its approach, very helpful at every stage of the project and very easy to work with. I would be happy to recommend Laidler Associates to any organisation that has a similar need for safety and compliance consultancy services."

SINGLE SERVICE SOLVES NIKON'S CE MARKING CONUNDRUM

Until recently, Nikon Precision, one of the world's leading manufacturers of lithography systems for use in semiconductor fabrication, was limited in its ability to satisfy the demand in Europe for second-hand equipment as many of the available machines were not certified as meeting European regulatory requirements. **Laidler Associates**, working in conjunction with its sister company, **Safety Systems Technology (both part of the Laidler group)**, is now providing an effective and efficient solution to this conundrum.



Because of their durability and performance, secondhand machines from Nikon Precision are always in great demand, and the company is happy to offer and support them under its Certified Used Equipment programme. Many machines, however, have only been used outside Europe and do not have the CE Certification that would allow them to carry the CE marking and be offered for sale in the European Union.

For some years, Laidler Associates, has been assisting Nikon Precision by carrying out risk assessments on second-user machines destined for the European market. On the basis of the assessment, Laidler Associates supplies Nikon Precision with a list of remedial actions needed to allow the CE Certification to be issued.

This did not, however, offer a complete solution – as the machines are sourced from many different countries around the world, Nikon Precision still needed to find local contractors in each country that would carry out the necessary work. Further, Nikon also had to be sure that the work was carried out correctly, and to a uniformly high standard. Laidler Associates' sister company, Safety Systems Technology, has now solved this problem by providing a full upgrade service for Nikon Precision machines wherever they are located in the world.

Safety Systems not only supplies any necessary safety products, but also installs the products and provides a project management service that looks after the machine through every stage of the compliance procedure. All of the work is carried out on a fixed price basis, with the price being formulated according to the remedial actions needed.

As Laidler Group companies Laidler Associates and Safety Systems ensure that the remedial work is always exactly as specified, and that the whole compliance process proceeds swiftly and easily. "The 'one-stop shop' service provided by the Laidler Group is an enormous benefit for us," said William McCafferty, Safety & Quality Manager for Nikon Precision Europe, "it makes the process of achieving compliance very smooth and straightforward. In addition, we know in advance exactly how much the work on each machine is going to cost,

and we know that all of the machines will be upgraded to the same high level of quality, using the same products and methods, irrespective of where they are in the world.”

“The real benefit is, however, for our customers,” he continued, “who are now able to stretch their budgets further by buying certified used equipment from us that is warranted to meet all relevant safety standards and also to meet original performance specifications. This budget -stretching option is proving particularly attractive currently.”

The Laidler Group has already handled the compliance process for Nikon Precision machines located in countries as far apart as Switzerland and Japan, ensuring that, prior to their entry into Europe, the machines are issued with an appropriate Declaration of Conformity, and that they have the CE marking affixed.

LIDLER SMOOTHS THE WAY FOR MINIMA TO BOOST OFFICE RECYCLING

Full compliance with EU requirements was essential for the success of a novel can and plastic bottle compactor developed by Minima Eco for use in offices, but the requirements for achieving compliance were far from clear. However, Laidler Associates, one of the UK's foremost safety and compliance consultants, provided Minima Eco with a complete, efficient and cost-effective solution.

The Minima Office developed by Minima Eco is an easy-to-operate and attractively styled electrically powered machine that individually compacts steel and aluminium cans, plastic bottles and tetrapak containers to approximately 20% of their original volume. This minimises the amount of storage space that these items occupy pending recycling and also cuts handling and transport costs.

To ensure that this innovative product could be sold throughout the EU, Minima Eco knew that it would have to confirm that it complied fully with all relevant EU Directives so that the CE marking could be applied. For help in achieving this, the company approached Laidler Associates.

An initial assessment quickly showed, however, that it was by no means certain which directives were applicable. Although the Minima Office is undeniably a machine, Machinery Directive 2006/42/EC explicitly excludes "ordinary office machinery", so the question arose as to whether the new Minima Office would fall within this definition.

To obtain a definitive answer to this question, Laidler Associates used their established list of contacts which includes the Health and Safety Executive and the Department for Business Industry and Skills who ultimately decided that the machine was not an ordinary office machine and, therefore, that compliance with the Machinery Directive was needed.

With this issue clarified, Laidler Associates carried out all of the work necessary to demonstrate compliance of the Minima Office not only with the Machinery Directive, but also with the Low Voltage and EMC Directives. This work included compiling the relevant technical files and drawing up the Declaration of Conformity "Working with Laidler Associates has taken all of the concerns and complexity out of achieving compliance," said Robert Hall, Managing Director of Minima Eco. "The company has supported us and provided invaluable advice at every stage of the product development process from the original prototype right through to the certification of the production models. In a nutshell, Laidler Associates has saved us a lot of time, money and stress!"



Testimonials

"The Professionalism, competency and presentation of Laidler's review allowed us to quickly improve the plant where necessary and to prove, where necessary, the supplier obligations in these areas. Compliance with paper legislation in the paper making industry is a complex task and I have been happy to recommend Laidler to other paper mills and the HSE in the UK." SCA Packaging, New Hythe

"You and your colleagues not only helped ensure we met all the various legislation requirements but also ensured that we were able to address safety matters and prepare the machines and get them into production quickly. Your guidance and support throughout the assessment process reflects very favourably upon Laidler Associates and the ongoing advice which has been readily available has been greatly appreciated. SMK (UK) Ltd, Newton Aycliffe

"The professionalism, knowledge and response relative to our needs provided excellent value. The work undertaken relative to our production areas was particularly helpful in achieving machinery safety objectives. The exercise to install safety standards at the supplier stage was cost beneficial –in addition to obvious safety benefits". Hydro Aluminium, Birtley

"I have always been impressed with the friendly, informative attitude of all of the consultants involved in the assessment process, their depth of knowledge, attitude and willingness to assist in finding workable solutions is very reassuring in helping Greggs put the necessary systems in place." Greggs plc, Newcastle

"May I take this opportunity to thank all at Laidler Associates for their advice and assistance over the last few years. Their professional and courteous manner, supported by extensive, broad based knowledge of the subject is reassuring when dealing with complex health and safety issues at sites across the world." Tokyo Electron, Crawley