TESTING AND CERTIFICATION OF LIFE SAFETY TECHNOLOGIES

PERSONAL PROTECTIVE EQUIPMENT

HELPING ENSURE **LIFE SAFETY**

UL is a global independent safety science company with more than a century of expertise in standards development, testing and certification. With pioneering innovations in safety, sustainability, renewable energy and nanotechnology, UL is dedicated to promoting safe products, as well as people-friendly living and working environments.

UL's association with product safety, integrity, quality and performance is globally recognized. Personal protective equipment (PPE) that carry the UL Mark gain a decisive competitive edge through the instant recognition the Mark provides.

Established in the U.S. in 1894, UL now operates internationally, offering a comprehensive range of services to help manufacturers gain the compliance and performance credentials they need to compete in the global marketplace.

COMPREHENSIVE GLOBAL SOLUTIONS
FOR PERSONAL PROTECTIVE EQUIPMENT (PPE)

Building on our tradition as a safety pioneer, UL continues to provide and promote expertise in the areas that matter to the life safety industry. Today, UL offers a genuine, global one-source solution by providing services for both the North American (UL Mark) and the European (CE Mark and Wheel Mark) markets.

UL's state-of-the-art testing and research facilities serve all key industry segments of the life safety market and can provide comprehensive component and end product testing. Our extensive suite of services keeps us at the forefront of product development, testing and certification. We can therefore provide our clients with global solutions at the local level through offices in over 100 locations and inspection services in 120 countries.

When it comes to European markets, we provide testing and assessment to EN and ISO standards. This demonstrates compliance with the Personal Protective Equipment (PPE) Regulation and that can be used to declare conformity by means of the CE Mark. In addition, UL provides certification and assessment programs designed to achieve compliance with all major global PFD regulations. This includes certifications to UL and ULC standards and 46 CFR US regulations.

UL provides certification and assessment programs designed to achieve compliance within the US and Canada. This includes certification to standards such as ULC, CGSB, NFPA, ASTM as well as regulations set forth by the United States Coast Guard and Transport Canada.
When it comes to European markets, we provide testing and assessment to EN and ISO standards, as well as to the Life-Saving Appliances (LSA) Code. This demonstrates compliance with the Personal Protective Equipment (PPE) Regulation and Marine Equipment Directive (MED) respectively. Compliance with the PPE Regulation allows manufacturers to declare conformity by means of the CE Mark, in turn, compliance with the MED allows the use of the Wheel Mark.

ONE-STOP CERTIFICATION

U.S., CANADA AND EUROPE

UL offers the possibility of combining UL-US (United States), C-UL (Canada) and CE (Europe) certification for personal protective equipment (PPE). As our customer you benefit from:

- **Faster time-to-market**
- **Reduced costs**
- **Lower sample requirements**
- **Unified product solutions for multiple markets**
- **A single, dedicated engineering contact**
- **Options for staged testing in development**

UL is the leading choice for flotation device certifications in the US and Canada. In addition, UL also offers certifications for Europe. Having this capability allows UL to combine multiple certifications into a single product submission which:

- **Reduces costs**
- **Permits multiple certifications**
- **Speeds products to market**
- **Allows for simple updating when product upgrades are made**

TESTING AND CERTIFICATION **FOR GLOBAL ACCEPTANCE**

First Responders & Emergency Services Protective Clothing & Equipment

Every day firefighters, hazardous-material response teams and other emergency responders across the U.S., Canada and Europe rely on their training and personal protective equipment (PPE) to guard against the hazards associated with their work.

UL certifies equipment and apparel to North American and European requirements to reduce the risk of injuries due to fire, falls, chemical exposure and other physical hazards. We can also combine these geographic testing requirements in some instances, reducing time-to-market, costs and sample requirements.

UL tests and certifies first-responder and emergency personal protective clothing as well as fall-arrest equipment in the following critical categories:

- Protective ensembles for CBRN terrorism incidents
- Protective clothing and equipment for technical-rescue incidents
- Liquid-splash-protective clothing for hazardous material incidents
- Life safety rope and equipment for emergency services
- Protective gloves for structural firefighting
- Protective helmets for structural firefighting
- Protective clothing and equipment for wildland firefighting
- Protective ensembles for proximity firefighting
- Protective garments and hoods for structural firefighting
- Repair service providers of firefighting garments
- Protective footwear for structural firefighting
- Station/Work uniforms for emergency services
- Protective clothing and equipment for surface water operations
- Protective clothing for emergency medical operations
- Vapor-protective suits for hazardous chemical emergencies

Workplace Personal Protective Equipment

The UL Mark is one of the most widely recognized and accepted third party certification credentials for PPE in North America and Europe today. UL is a Notified Body for the PPE Directives in Europe (CE) and is backed by the PPE technical expertise and credentials demanded by US municipalities. UL's association with product safety, integrity, quality and performance is internationally unrivalled. Any PPE equipment or components evaluated by UL gain a decisive competitive edge through the instant recognition the mark provides and quality it represents.

UL tests and certifies the vital occupational safety equipment and apparel designed to protect industrial personnel from hazards in the workplace:

North American product categories:

- Emergency eyewash and shower equipment
- Wearing apparel for butchers and meat cutters
- Chemical-protective clothing
- Fall restraints and suspension devices
- Eye and face protection
- High-visibility safety apparel
- Insulated and insulating hand tools
- Protective rainwear for electrical workers
- Flame-resistant rainwear for protection against flame hazards
- Protective clothing for electrical workers
- Flash fire protective clothing for industrial personnel
- Foot protection for chain saw users
- Leg protection for chain saw users
- Occupational head protection (hard hats)
- Protective footwear

European product categories:

- Eye and face protection
- Foot and leg protection
- General body protection (clothing)
  - General requirements
  - Against rain
  - Against cold
  - High visibility
  - Ergonomics
  - Against heat (>100 °C and fire and flame)
  - Clothing for firefighters
- Hand protection
- Head protection
- Protective equipment against biological agents
- Protection from hand-held chain saws
- Equipment providing protection from falls from height

Lifejackets & Personal Flotation Devices

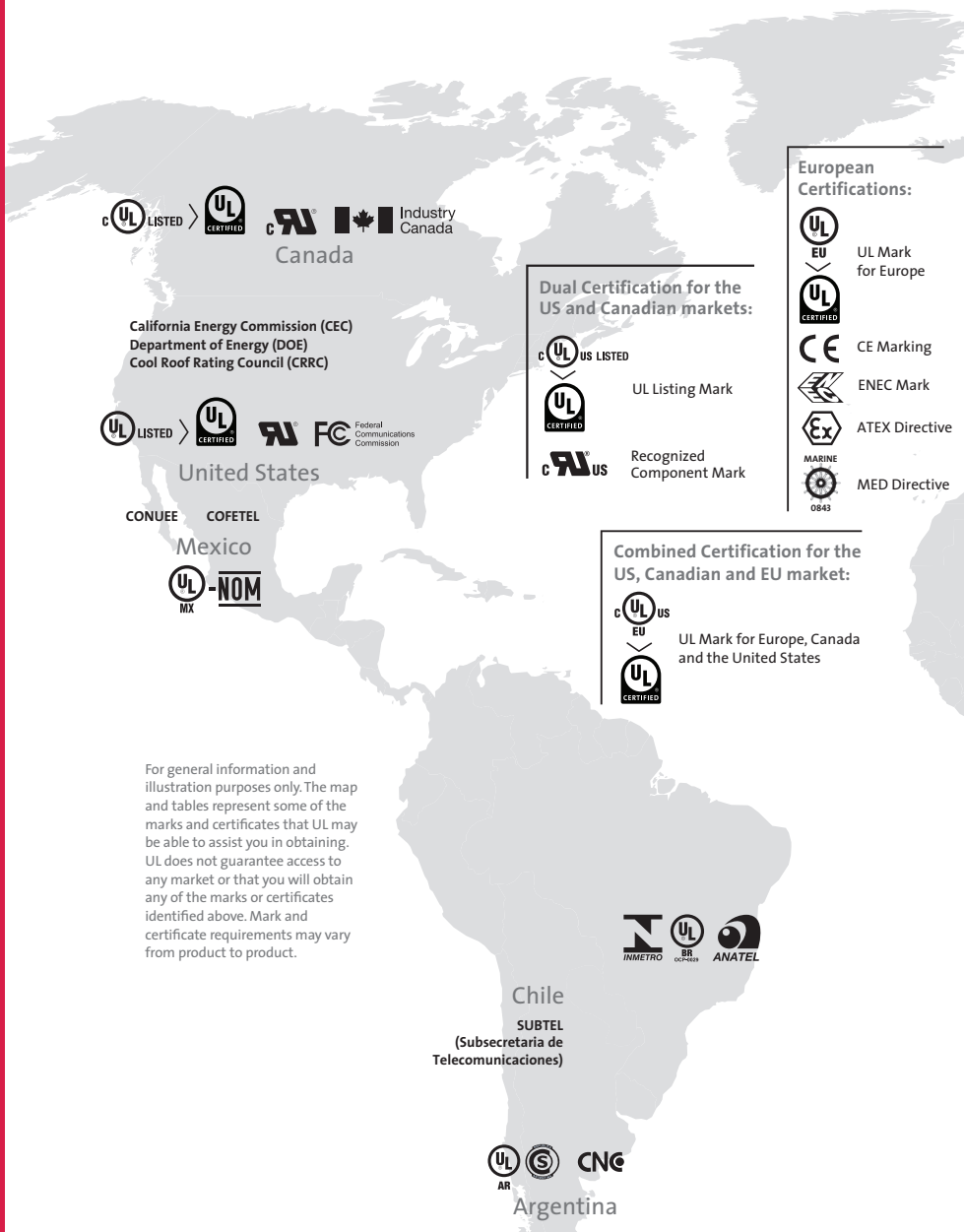
The UL Mark has long been associated with lifejackets and other flotation devices, making the UL Mark a byword for safety and integrity in this critical life safety area. UL can test and certify devices to US Coast Guard, Transport Canada, CAN/CGSB, European and International Maritime Organization (IMO) guidelines for marine testing according to the International Life-Saving Appliance (LSA) Code, in the Safety of Life at Sea (SOLAS) regulations.

Additional Services for Manufacturers of Personal Protective Equipment

An increasing number of NFPA standards for PPE require that all manufacturers of certified products be ISO 9001 registered. UL offers a broad portfolio of services – through a single service provider – to help manufacturers meet ISO requirements, as well as other industry and regulatory requirements.

If you are a PPE manufacturer, UL can help you achieve faster time-to-market and reduced costs by offering you a complete selection of auxiliary services, including:

- Management system registrations
- Performance testing
- Consulting/Analytical services
- Commercial inspection and testing services
- Customer training and workshops



EXPAND YOUR PRODUCT REACH

UL's Global Market Access services give you the ability to achieve and maintain product compliance, increase speed of time-to-market, reduce costs, improve product safety, and manage risk. Manufacturers can choose any combination of our services to fit specific needs.

You can also have UL deliver a turnkey solution, in which we handle the entire process to help provide the desired certifications, marks and regulatory approvals.

MARK YOUR SUCCESS WITH **GLOBAL MARKET ACCESS**

GET AHEAD WITH AN EARLY START

Unlike other organizations, UL can provide support early in the design process – sometimes before there is even a physical product. That can give you a decisive competitive edge.

Submitting products for testing and evaluation after development often reveals test issues or design changes required to meet market requirements. This adds time and expense to the process, tying up development teams and delaying other projects in the product pipeline.

Instead, UL can join your process from the beginning, to discuss standards, evaluate design viability ideas and provide critical feedback to minimize project risks. UL can also schedule upfront testing at key stages, so that certification testing and development can run parallel.

As a result, your products reach their markets quicker and more cost-effectively.

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