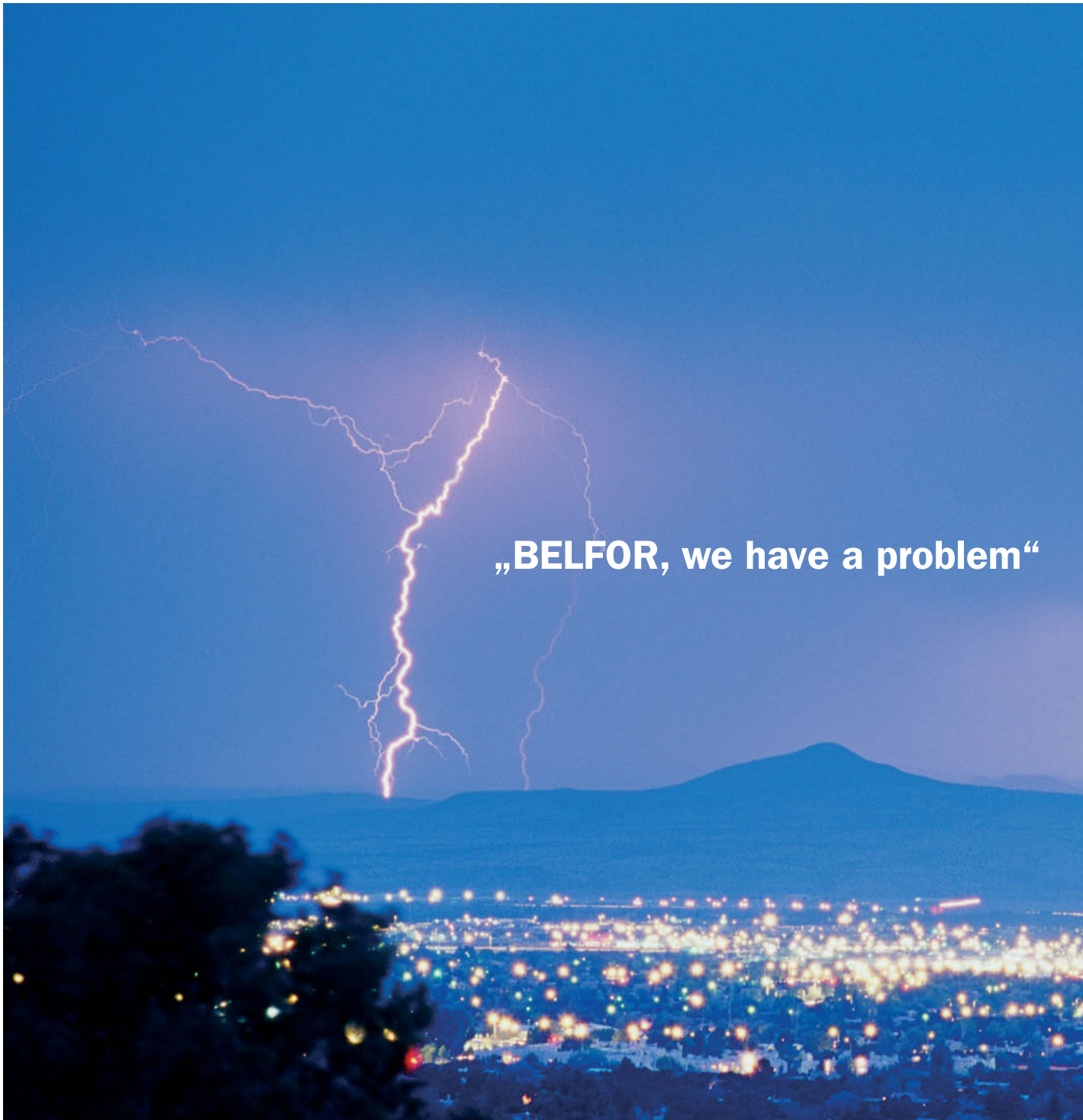




# MARINE AND OFFSHORE



# **BELFOR TECHNOLOGY - EXCELLENCE IN MARINE AND OFFSHORE SERVICES**



00:02:00  Recovery

00:03:00  Reinstatement

00:04:00



### **BELFOR MARINE & OFFSHORE GOES INTERNATIONAL**

BELFOR has executed a large number of projects on ships in the past in Europe but also to a large extent in Asia, Canada and the United States. The reconditioning of electronics after disasters was introduced in 1980 by the Dutch INA-Corocor company – a merger of a maritime navigation equipment supplier with a subsidiary of the Danish reconditioner COROCOR. Services began in a rented garage in Zierikzee. Moving to Dordrecht in 1983, business grew steadily. After demerging from INA, Corocor BV built new premises in 1987 – a year when reconditioning high-tech mechanical machinery was added as a service. In 1989 a management-buyout saw the birth of Recontec BV – an independent Dutch reconditioning company.

When both directors retired in 2001, Recontec was sold to Siemens Netherlands and merged with Relectronic-Remech BV. But due to Recontec's strong reputation in technical reconditioning, the activities of both companies continued under the Recontec brand. When Siemens Netherlands eventually sold Recontec BV, it became a subsidiary of BELFOR.

From 1980 until the present, BELFOR's marine roots, culture and 'jargon' have become deeply embedded within our company. Our employees understand marine customer needs and give added value in marine catastrophes and various contamination-related problems. As a result, BELFOR is a well-known provider of services today, not only related to marine flooding, fire, salvage, preservation and reconditioning but also related to 'condition based maintenance' (e.g. pre-delivery inspections, analyses and decontamination, infrared inspection during sea trials). BELFOR's clientele varies from ship owners, insurers, surveyors, salvage companies to shipyards, manufacturers and suppliers. In the future BELFOR's international marine and offshore business solutions will be executed under the BELFOR Technology brand.

Conor Roche, COO BELFOR Europe

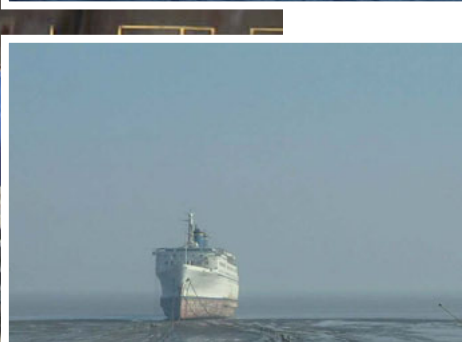
# **BELFOR TECHNOLOGY – YOUR RELIABLE PARTNER COVERING THE WHOLE SHIP LIFECYCLE**



00:02:00  Recovery

00:03:00  Reinstatement

00:04:00



## **WE SERVICE THE WHOLE LIFECYCLE: FROM CRADLE TO GRAVE**

The building of a new ship has inherent potential risks. These relate to the installing of electronic equipment or other construction activities including grinding, welding, blasting, painting and can cause latent hazards such as malfunctioning, disruptions, damage and they can diminish the longevity of associated machinery.

Blasting operations, for example, result in airborne metal particles which can easily affect the efficient running of your equipment.

BELFOR Technology specializes in assessing contamination-related risks. Furthermore we offer solutions to solve such problems and make sure your new build is really new. The circumstances in which a sea-going vessel operates during most of its productive service life are far from ideal. Considerable variations in temperature, humidity and salt levels frequently have negative effects on the functioning of equipment. Electronic technology can additionally be affected by the carbonaceous vapours produced by a ship's own machinery. Once again BELFOR Technology condition assessment followed by thorough de-contamination increases equipment reliability.

If misfortune does strike a ship in the form of fire or flooding, we are the perfect business partner to deal with damage limitation, preservation, decontamination and reconditioning, even, to prevent delay as much as possible, during a passage over the ocean while working 24 hours. Not only are we able to perform relevant measurements but we also provide detailed advice relating to direct measures, the required degree of disassembly of equipment, decontamination processes etc. What is more, we deliver specialists, precision tools and necessary chemicals wherever and when they are needed.

When a vessel is 'retired' it will end up at a ship recycling yard. The dismantling will be carried out using the guideline 'Inventory of Hazardous Material'.

BELFOR Technology can provide this inventory long before retirement is in sight!

# TAILORED SERVICES FOR MARINE AND OFFSHORE BUSINESS





## WE OFFER A BROAD RANGE OF TAILORED SERVICES

### THERMOGRAPHIC INSPECTION

This is a useful fault-finding tool when it comes to electrical and electronic installation defects. This infra-red imaging process is a further BELFOR Technology service.

### WIPE SAMPLES

Assessing levels of contamination of electronic equipment can, besides other tests, be made by wipe sampling. The analysis of a wipe sample will determine the presence of corrosive and/or conductive particles.

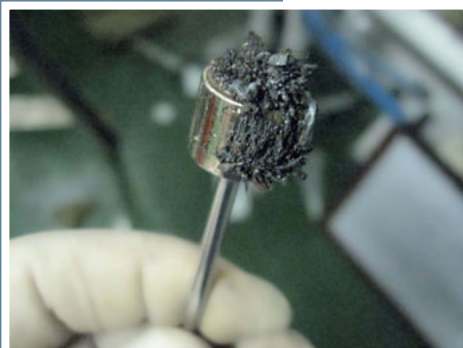


### HCL TESTS

When burning or smouldering, PVC insulation materials release chlorides, which when combined with humidity can form hydrochloric acid, which is a highly corrosive component in soot. As part of our services, we can measure the level of this contaminant.

### INSPECTION REPORT

Following contamination, a detailed report of each situation is prepared which focuses on both damage related and maintenance related issues, identifying potential solutions. This report is the basis for the best-possible subsequent action.



### DAMAGE LIMITATION

After fire or water ingress incidents, the corrosion of unprotected metallic surfaces usually begins rapidly due to ambient salt, acidic contaminants, humidity and oxygen. By undertaking preservative measures, the corrosion process is temporarily halted.



# TAILORED SERVICES FOR MARINE AND OFFSHORE BUSINESS





### **DECONTAMINATION**

We not only focus on the decontamination of technical objects, but we also assist by giving advice and practical solutions relating to structural components such as the hull.

### **RESTORATION OF ELECTRONICS**

Decontamination work on highly complex electronic equipment is not a task to be taken light-heartedly. Being fully aware of this, we employ well-qualified and highly trained staff experienced to carry out this type work at a highly professional level.

### **MACHINERY RESTORATION**

Dismantling and re-assembly of machinery as well as the removal of internal and external contamination and corrosion are yet another one of our services.

### **GENERATOR CLEANING**

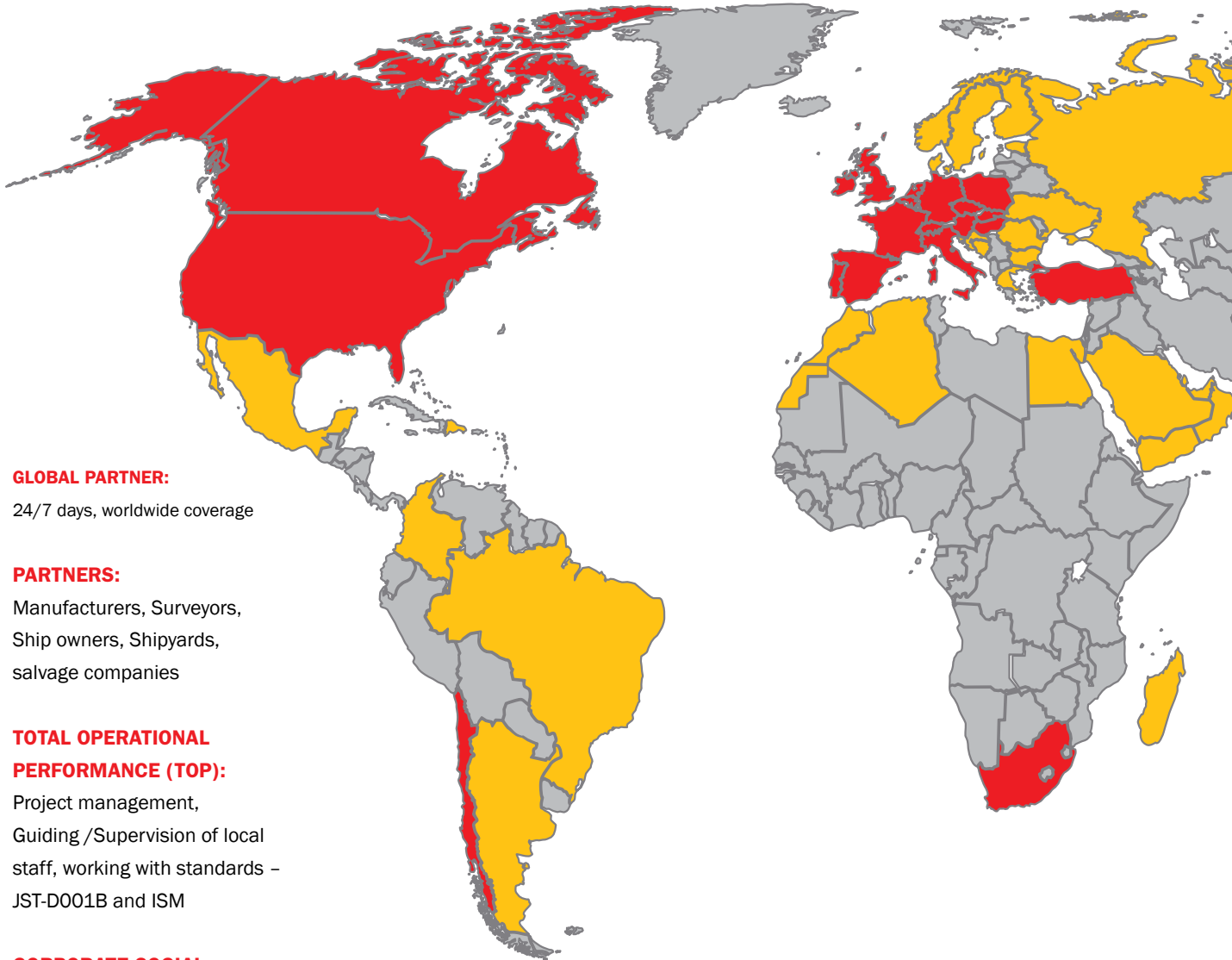
The cleaning of contaminated generators can be carried out on site.

### **INVENTORY OF HAZARDOUS MATERIALS**

In the near future, every operative ship will be obliged to have an 'Inventory of Hazardous Material' available on board. Our approved HazMat expert is qualified to deliver such an inventory.



# BELFOR'S SERVICES ARE COMPREHENSIVE. WITH YOU AND AROUND THE WORLD.



→ **GLOBAL PARTNER:**  
24/7 days, worldwide coverage

→ **PARTNERS:**  
Manufacturers, Surveyors,  
Ship owners, Shipyards,  
salvage companies

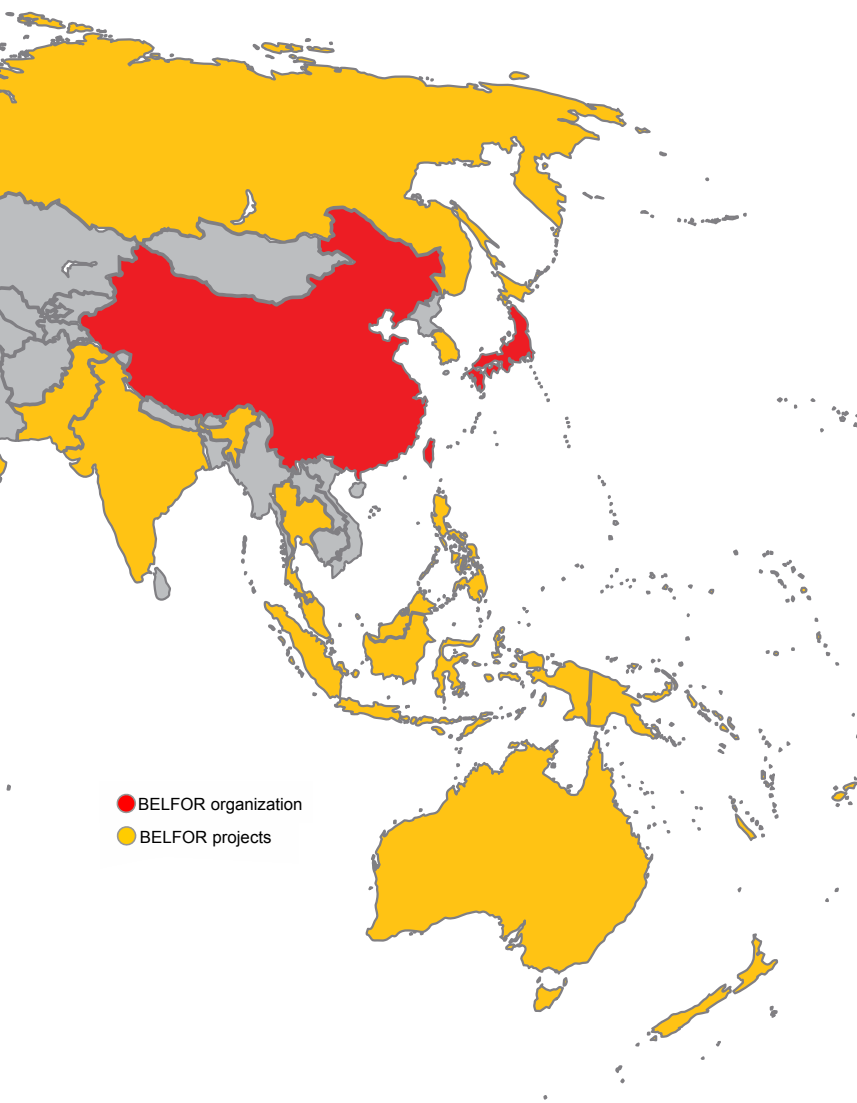
→ **TOTAL OPERATIONAL  
PERFORMANCE (TOP):**  
Project management,  
Guiding /Supervision of local  
staff, working with standards –  
JST-D001B and ISM

→ **CORPORATE SOCIAL  
RESPONSIBILITY:**  
Labor law, environment, training,  
safety

00:02:00 Recovery

00:03:00 Reinstatement

00:04:00



## **BELFOR** (●)

We are the world leaders in the restoration of fire, water and storm damage of every kind and magnitude, and we get the consequences of damage back under control quickly and at the lowest possible cost to you. We keep interruptions to your business as short as possible and restore the order you rely upon quickly.

## **BELFOR** (●) PREVENTION

In order to protect people and property against damage as effectively as possible and to keep the extent of any damage small, we implement effective structural fire protection measures and help companies with their disaster planning.

## **BELFOR** (●) TECHNOLOGY

We are experts in the fields of mechanical and electronics restoration and take care of the recovery and repair of technical installations. We also develop tailored industry solutions, for example for marine and offshore, semi-conductor technology and clean-room applications. Our research and development centre in Ismaning is a recognised partner for damage analyses, the development of new restoration methods and training activities.



**FOR FURTHER INFORMATION  
PLEASE CONTACT:**

**BELFOR Europe GmbH**

Headquarters  
Keniastraße 24  
47269 Duisburg  
Germany

Tel.: +49 203 75640 - 0  
Fax: +49 203 75640 - 306  
E-Mail: [info@belfor.com](mailto:info@belfor.com)

**[www.belfor.com](http://www.belfor.com)**

**Recontec B.V.**

Daltonstraat 40  
3316 GD Dordrecht  
Netherlands

Tel.: +31 78 6511622  
Fax: +31 78 6179890  
E-Mail: [info@recontec.nl](mailto:info@recontec.nl)

**[www.recontec.nl](http://www.recontec.nl)**

**BELFOR (Asia) Pte Ltd**

No. 30 Ubi Crescent,  
#01-01 Ubi Techpark  
408566 Singapore

Tel: +65 6848 1110  
Fax: +65 6848 1114

**[www.sg.belfor.com](http://www.sg.belfor.com)**



**Our services worldwide:**

Emergency Aid | Structure and Property Restoration | Structural Dehumidification | Content Restoration | Machinery Repair and Restoration | Restoration of Electronics and Electrical Equipment | Document and Data Recovery | Mould Remediation | Emergency Response Programme RED ALERT®