

**THORN EMI Lighting**



**WE MAKE LIGHT WORK FOR YOU**

**LIGHTING FOR INDUSTRY**

# THE RIGHT LIGHT FOR THE JOB

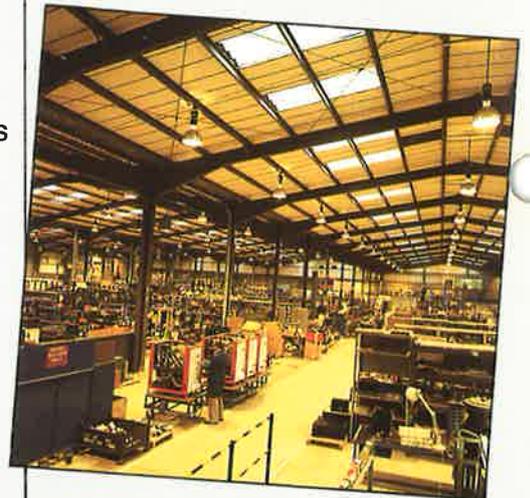
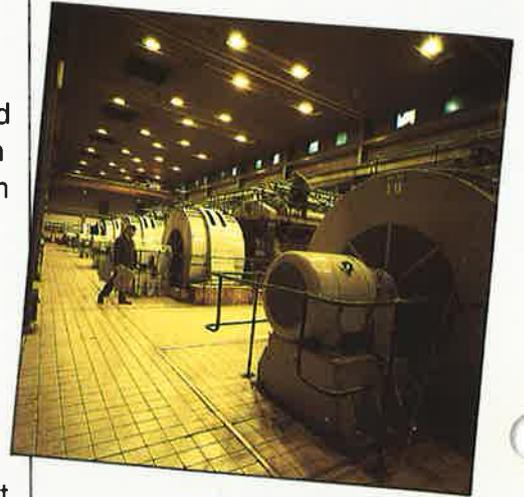
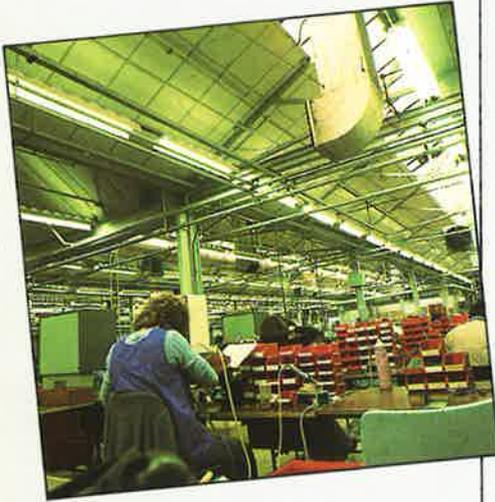
**L**ighting for industry must cater for applications ranging from intricate component manufacture and assembly to heavy engineering; from off-shore or deep mine fuel extraction to the maintenance of freight and passenger transport systems.

Whatever your business, lighting must:-

- ★ Increase the productivity of your workforce
- ★ Upgrade the working environment to boost morale and improve safety standards
- ★ Reduce your energy load
- ★ Reduce your maintenance costs

THORN EMI can meet your needs precisely. It is the only manufacturer to design and produce its own light sources, associated control gear and enclosures to optimise the lamp and gear performance for any given industrial situation. At each of our Sales Offices we have teams of first class Lighting Engineers to help you plan your lighting. They have a comprehensive range of products from which to choose; and if you have a unique application, they will arrange for that special fitting to meet your requirement.

This brochure illustrates some of the ways we are helping industry to achieve its objectives. Let us help you to achieve yours.



Right: Sales Office, Lighting Engineering Department.



*"In the industrial sphere, lighting must work hard to earn its keep. We at THORN EMI will make sure it works to your maximum advantage"*

Les Duncombe, Technical Sales Manager:



# LIGHT INDUSTRY

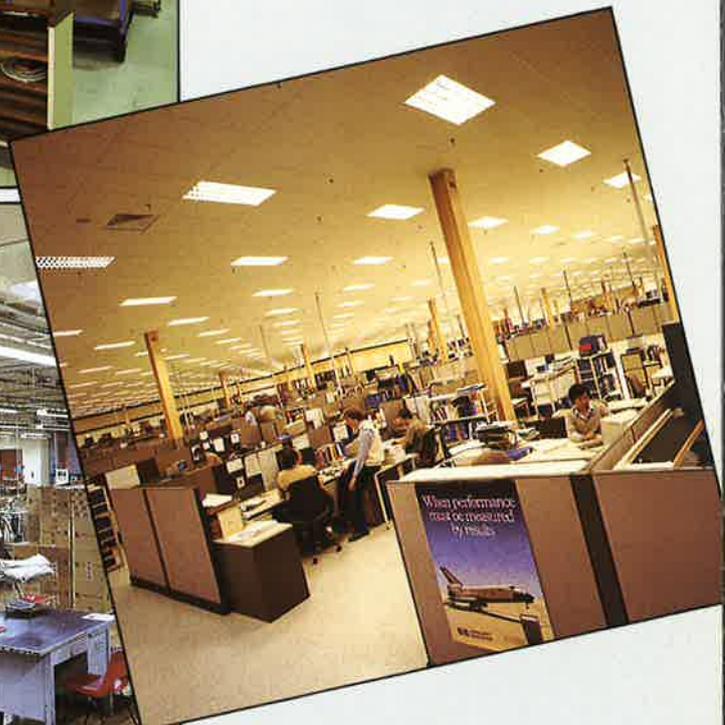
All too often a place of work is something employees endure rather than enjoy. Yet a carefully planned lighting scheme can transform an uninspiring environment into a pleasant working atmosphere.

There is no doubt that good lighting has a positive effect upon workers' morale and productivity. It shows you care about their well-being and improves status and attitudes to management.

Dedicated task lighting coupled with good ambient lighting also has an important bearing on the quality of output, highlighting imperfections on intricate work that might otherwise be missed.



Task lighting, Welsh Porcelain Factory, South Wales



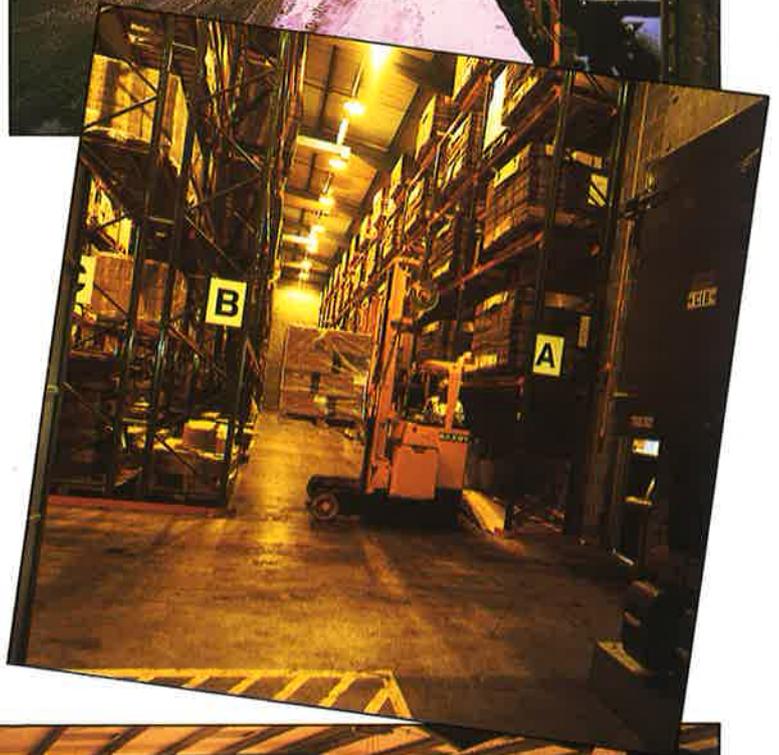
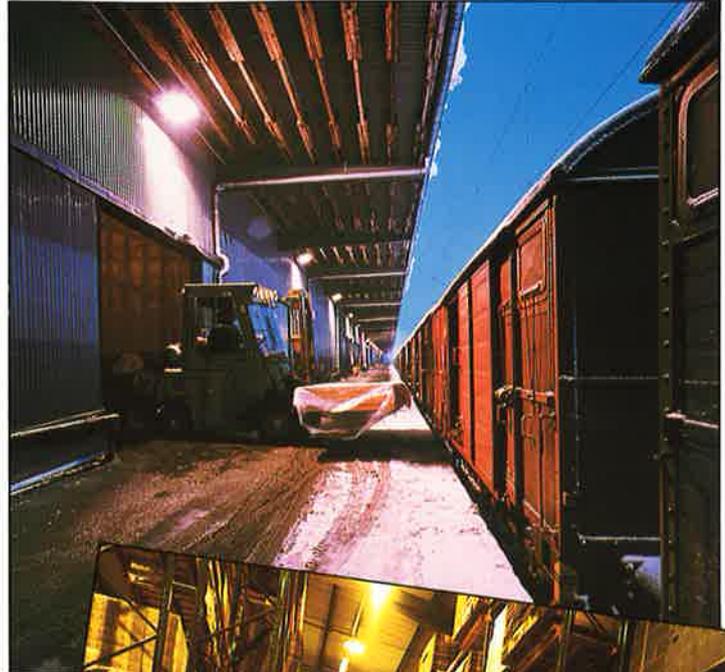
*Top: Assembly and testing area, IBM, Greenock.  
Centre: Cigar manufacture and packaging, WD & HO Wills.  
Inset right: Computer peripheral production, Hewlett Packard, Bristol.  
Bottom: Assembly area, Black & Decker, Spennymoor.*

# WAREHOUSING

Good visibility cannot end with the production line; that is why we have given considerable thought to warehousing and storage areas. They may seem less critical, but lighting levels here are as important as on the shop floor.

The value of good illumination wherever heavy weights are being handled or stocks checked is obvious; it reduces the risk of accidents or errors. That is why our laboratories have developed products particularly suited to this application and the extreme temperatures sometimes encountered.

In addition to our concern for the right vertical lighting for forklift truck drivers, this page illustrates our solutions to such extremes as  $-40^{\circ}\text{C}$  outdoors in Scandinavia and the (slightly) warmer conditions of a Findus cold store.



Top: Rail freight loading area, Sweden.  
Centre: Cold store, Findus Foods, Newcastle-upon-Tyne.  
Bottom: Electrical wholesalers, Edmundsons, West Bromwich.  
Far right: Warehouse, Allied Breweries, Romford.



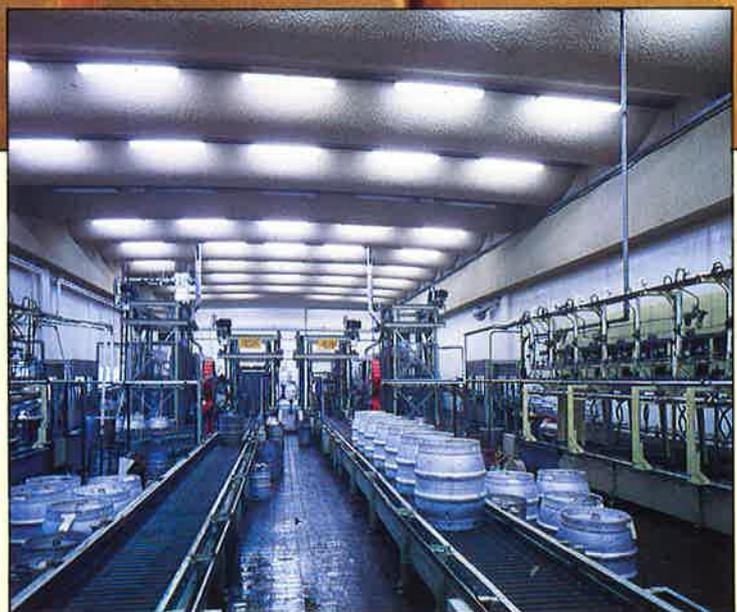


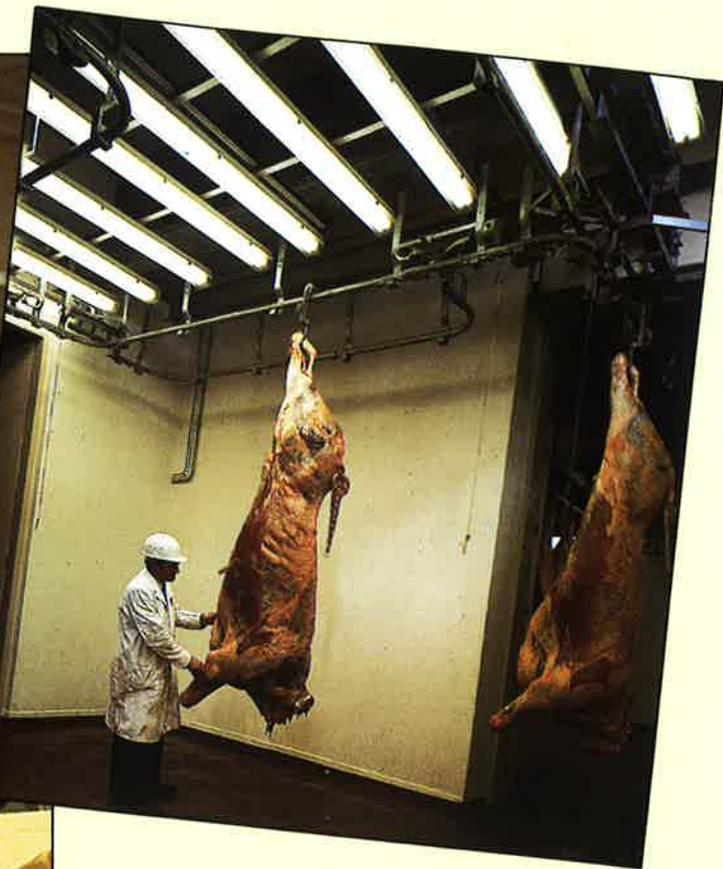
# FOOD AND DRINK

**G**enerous lighting levels and good colour rendering are particularly important where food and drink are concerned. The preparation, grading and inspection of foodstuffs and brewing ingredients demand consistent lighting conditions shift after shift.

Other important considerations are corrosion, contamination and cleanliness. Some food preparation processes give rise to a steamy atmosphere, others generate corrosive fumes which require corrosion resistant light fittings.

Additionally, all the fittings, together with other surfaces, will need to be regularly cleaned in accordance with Food Hygiene Regulations. Since hosing down is the accepted practice in most food factories, our Lighting Engineers will often specify jetproof fittings. Another point to note is that lighting levels may need to be higher while cleaning is in progress than during the processing operations.





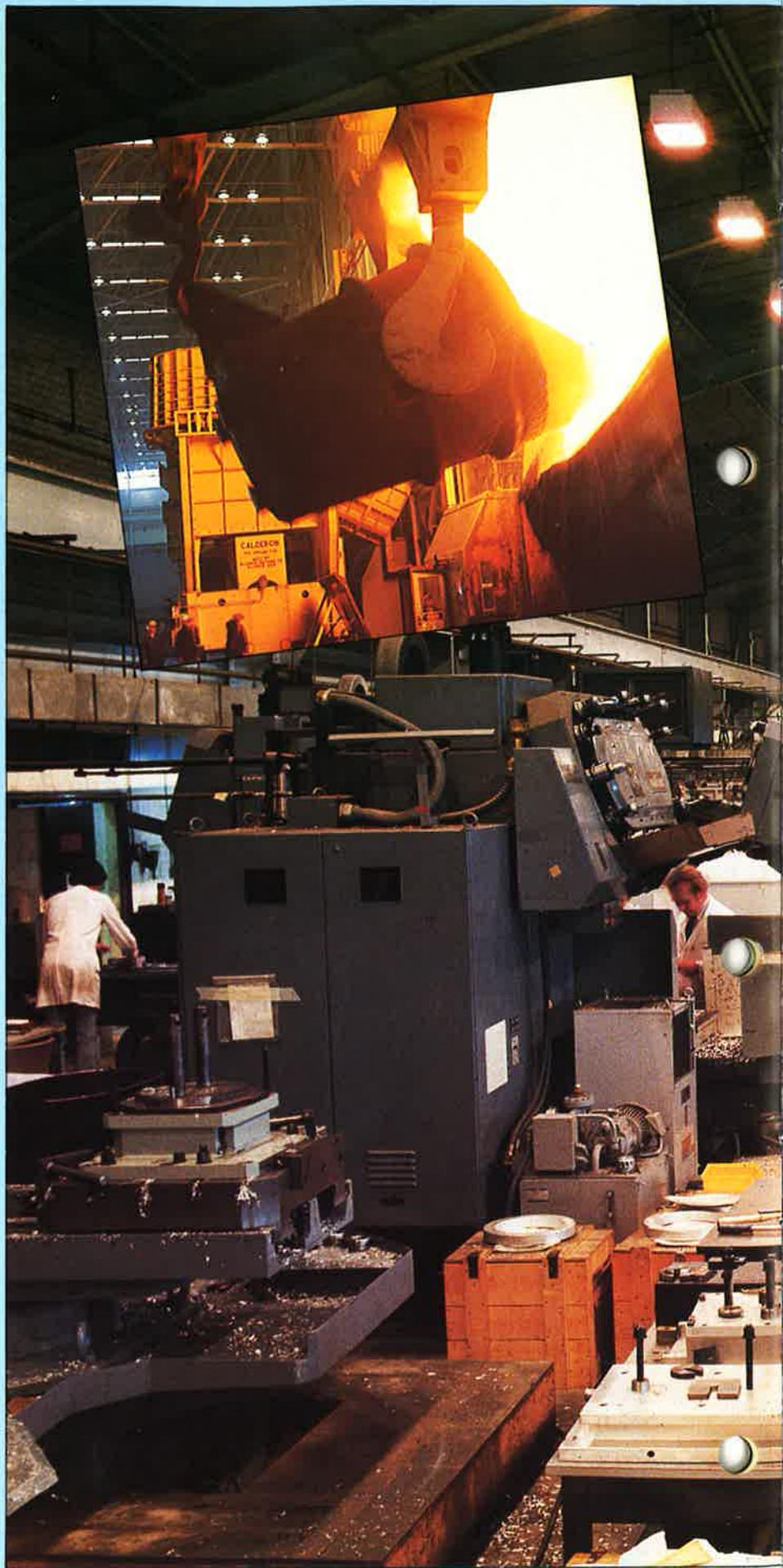
*Top right: Abbatoir Dundee,  
Centre: Associated Dairies, Settle.  
Bottom left: Watney Mann brewery, Norwich.  
Bottom right: Bon Chef Frozen Foods, Stockport.*



# *MEDIUM AND HEAVY INDUSTRIES*

**W**hen assessing how far to go in illuminating a working environment, Health and Safety Regulations merely lay down minimum standards. For thinking executives, however, it makes sense to offer workers the best standard of illumination while complying with the Regulations.

With a wealth of experience in the field of lighting, it's hardly surprising that THORN EMI is called upon regularly to advise some of the biggest names in industry. But regardless of size, all our clients are treated with the same care and consideration. Our expertise, service, support and deliveries are second to none and available to all.



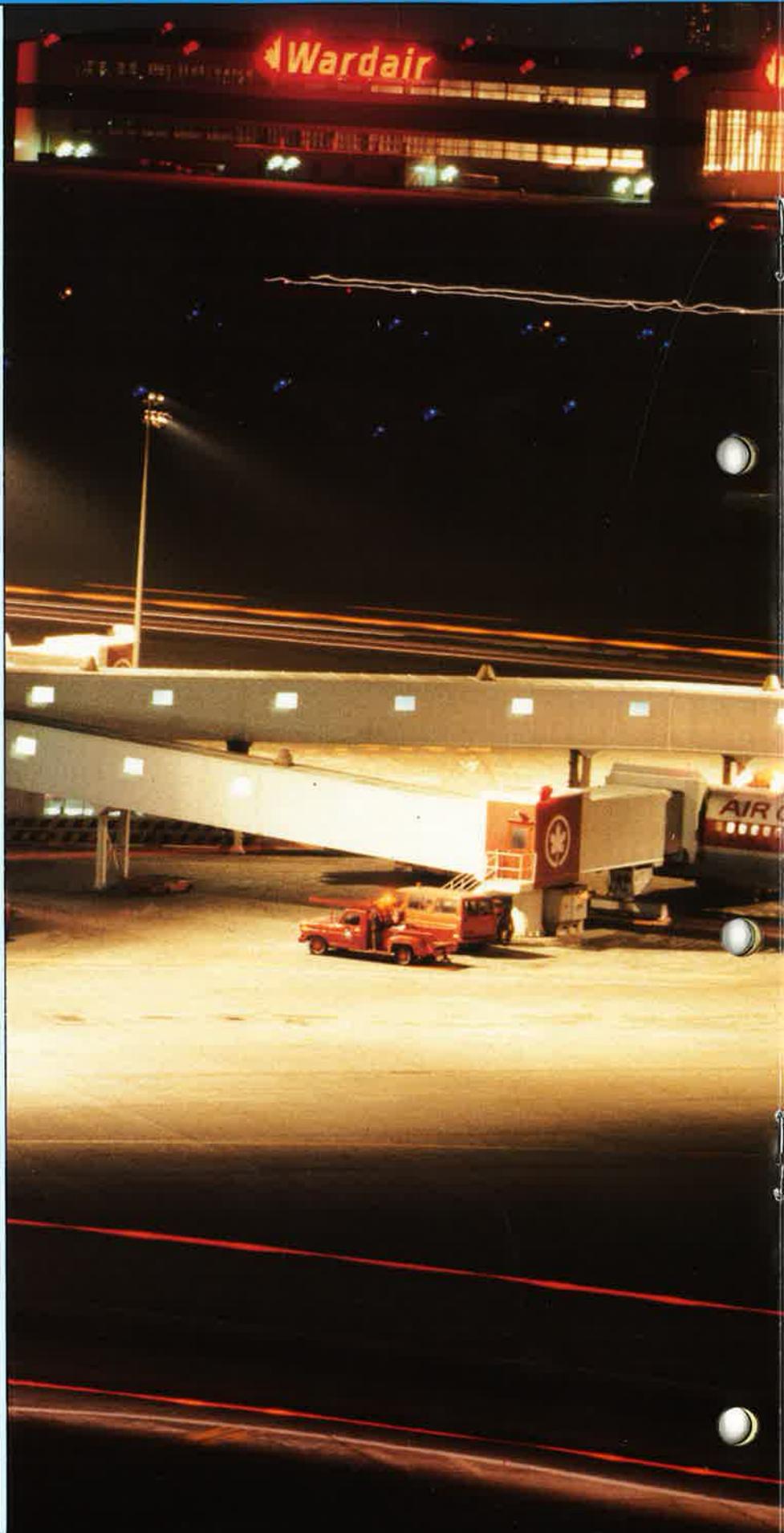
Modern light sources and associated luminaires allow continuous production processes to carry on without interruption, resulting in real cost savings.



# ON THE MOVE - ON THE MOVE - ON THE

It is essential that freight and passenger transport services, together with service vehicles, are kept moving. There must be sufficient light to ensure worker safety, passenger movement away from main concourses and security in baggage handling areas or where expensive equipment is in use. Thus, good lighting of workshops and service bays, railway platforms and yards, dry docks and aircraft stands is vital.

THORN EMI's comprehensive range of lighting equipment can satisfy every need, from maintenance shops for service vehicles to major airport runway lighting.



Transportation operates 24 hours a day, seven days a week. By using energy saving lighting, the cost of operating on this scale can be reduced dramatically.

# MOVE - ON THE MOVE - ON THE MOVE

Wardair



**M**any industrial processes are potentially hazardous. Since all light sources emit a certain degree of heat, our Research and Development Laboratories are constantly working to minimise the risks.

## ***HAZARDOUS AREAS***

Under the wrong conditions, gases, liquids and certain dusts are all capable of creating an explosive atmosphere. But danger doesn't always emanate from the most obvious quarter. Take flour for example, seemingly the most innocuous of substances – but in certain circumstances a highly volatile agent.

Other risks are more easy to define. The petro-chemical industry is a clear candidate for special vigilance. That's why THORN EMI Lighting engineers have developed special strategies for floodlighting hazardous areas from both inside and outside the danger zone.

*Background:* Oil terminal, Occidental Oil, Flotta.  
*Top inset:* Arrowhead Drilling Rig, Canada.  
*Inset far right:* Spray booth, Kitchenham Ltd., Bournemouth.  
*Inset bottom left:* Agricultural raw material storage area, Scotland.



**T**here isn't an employer in Britain who wouldn't like to see a reduction in two alarming statistics – the number of accidents that happen at work and the ever-increasing losses due to theft. Happily, there's one simple measure that can help them achieve both these objectives.

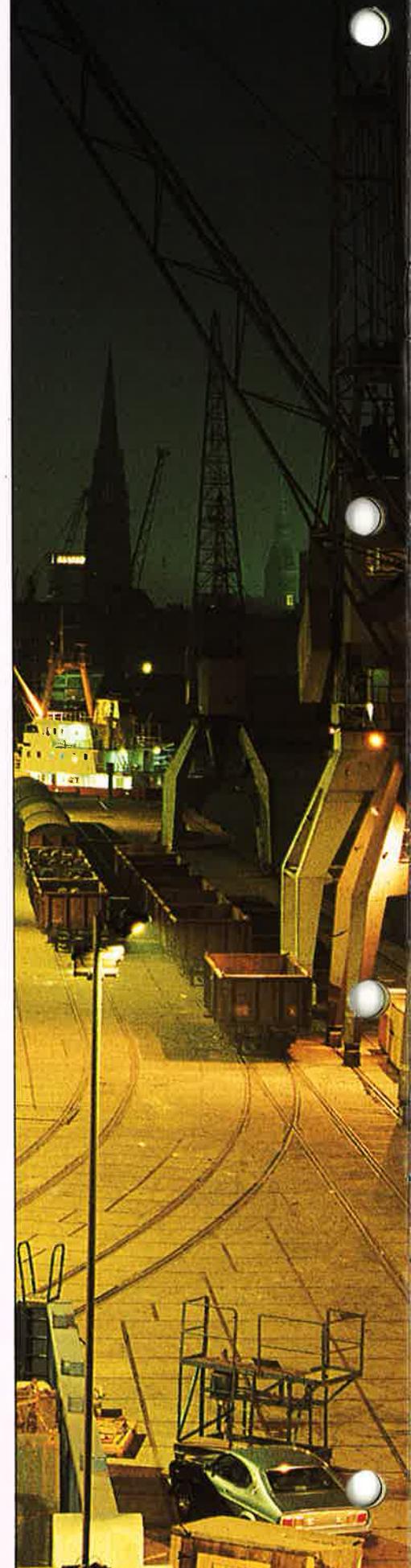
### ***SAFETY***

A poorly lit environment is one where mistakes are bound to happen. Some of these will merely result in a loss of output. Others may lead to a serious accident or even the loss of life. This is less true of shop floors and other interiors than it is of depots and exterior loading areas where illumination after dark often tends to be less than acceptable. So whether it's your production targets or your manning levels that you're trying to maintain, spare a thought for the quality of light you offer your workforce, particularly outdoors.

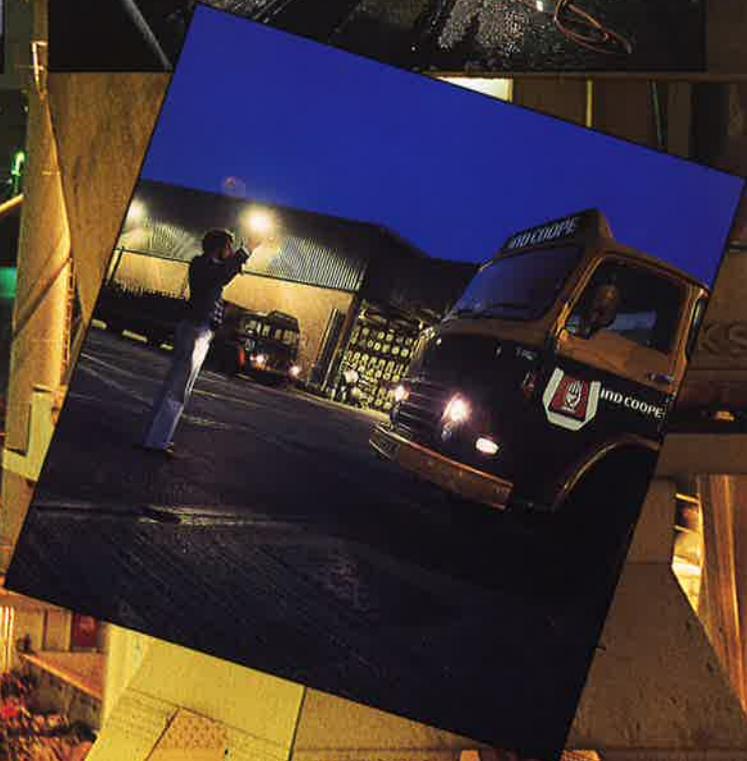
### ***SECURITY***

Lighting is one of the most effective ways to deter the would-be thief. Light levels need not be high to protect your valuable cargoes, stores or equipment. Our Lighting Engineers know precisely what is required. More than anything else, it's the knowledge that he (the intruder) is potentially visible to your night security that keeps the thief away, and if you want to save on running costs then our infra-red scanning system will delay triggering your security lighting until it senses movement.

Luminaires designed for use in security and amenity areas are found in widely differing types of industries, and the four examples shown could scarcely be further apart.



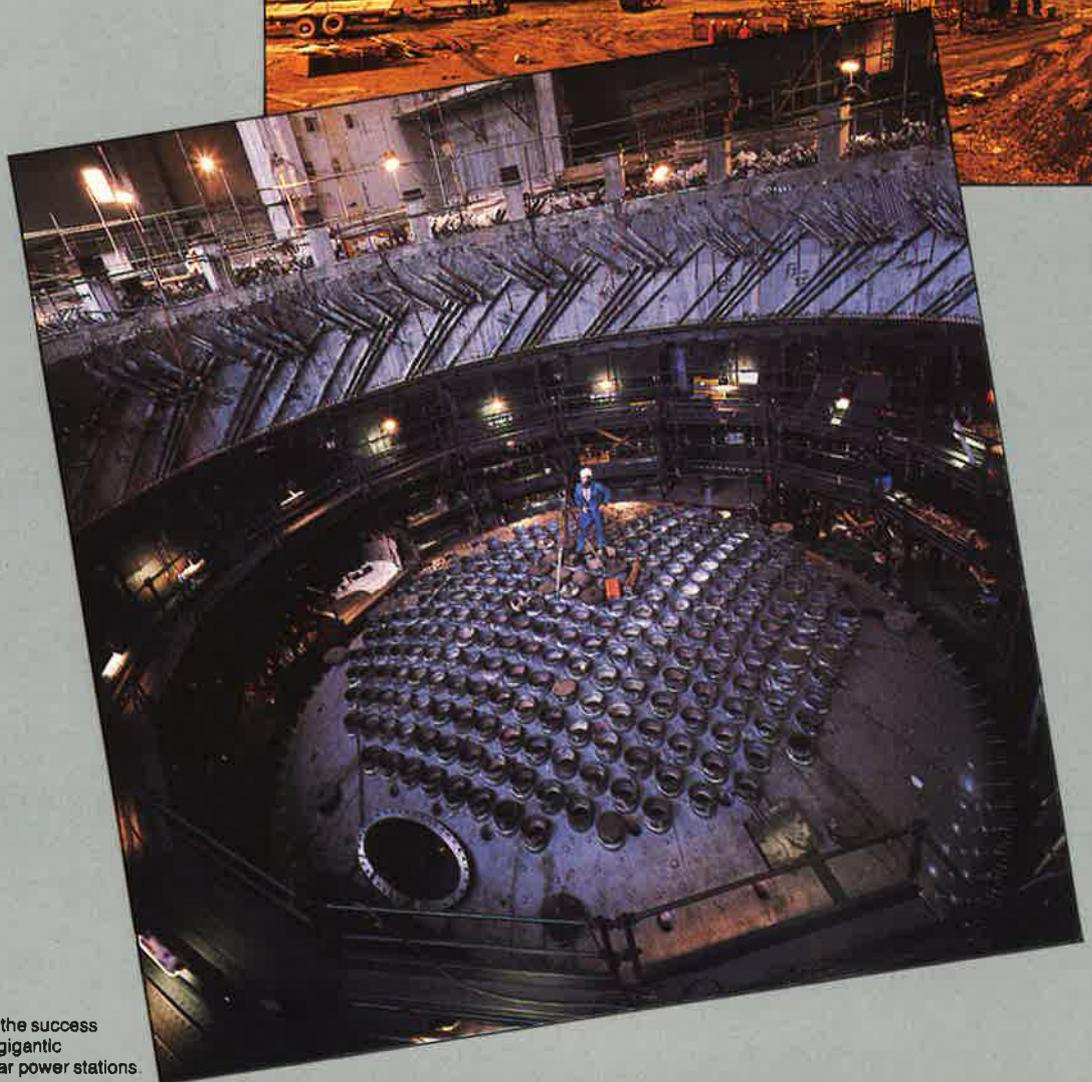
# ***SAFETY AND SECURITY LIGHTING***



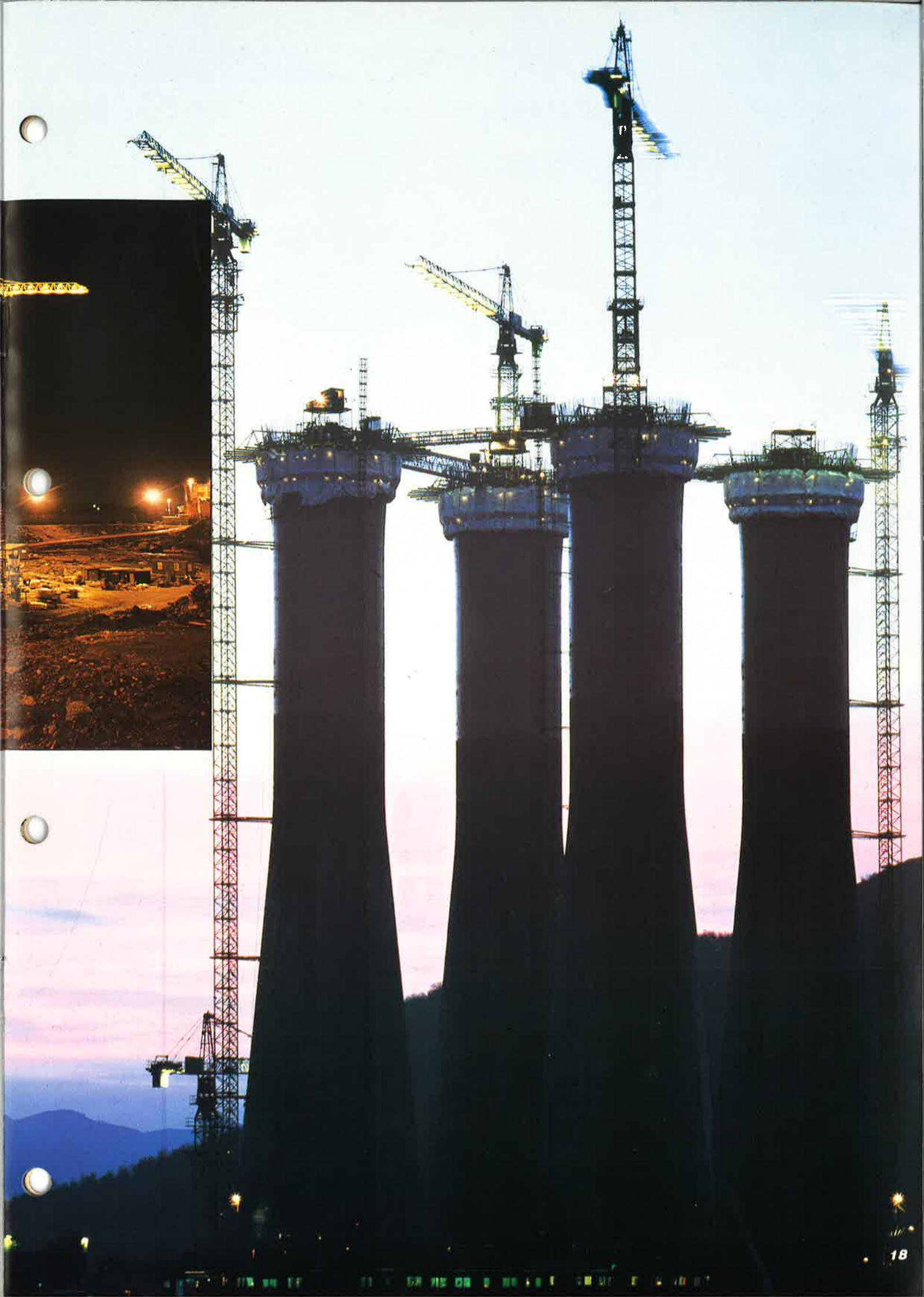
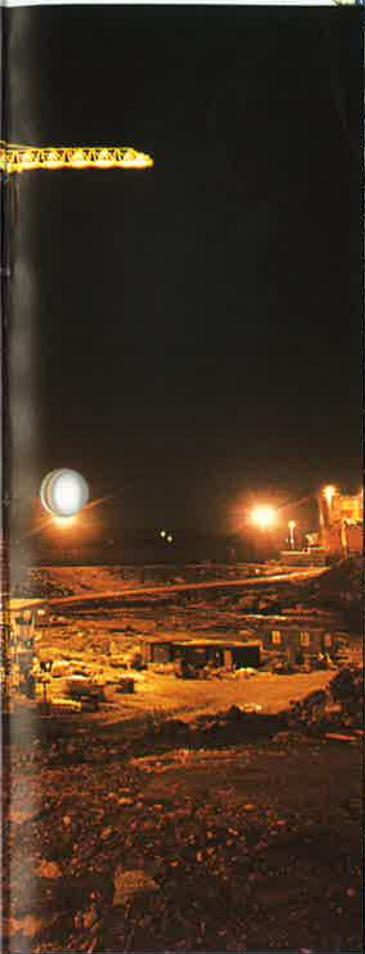
# LIGHTING ON SITE

Over the years, our Lighting Engineers have built up a considerable body of experience in the fields of construction and heavy engineering. Reliable floodlighting is clearly of paramount importance where large projects are at stake and lighting must continue to reflect the changing requirements of a major programme as work progresses.

Indicative of the flexibility of THORN EMI Lighting systems is the extent to which they can grow with the job. As a structure takes shape our lighting scheme mirrors its progress. This means that neither the site nor its surroundings are ever the victims of inadequate illumination.



Lighting is an essential ingredient to the success of major construction projects, from gigantic floating platforms to advanced nuclear power stations.



# EMERGENCY AND STANDBY SYSTEMS

If your lights fail temporarily, it's comforting to know that THORN EMI Lighting standby systems, installed as part of your general lighting scheme, will allow work to continue. That's why our Lighting Engineers place so much emphasis on them. Standby systems allow you to continue vital processes, or where appropriate have them properly shut down, despite the absence of light from routine sources. In either event, production losses will clearly be minimised.

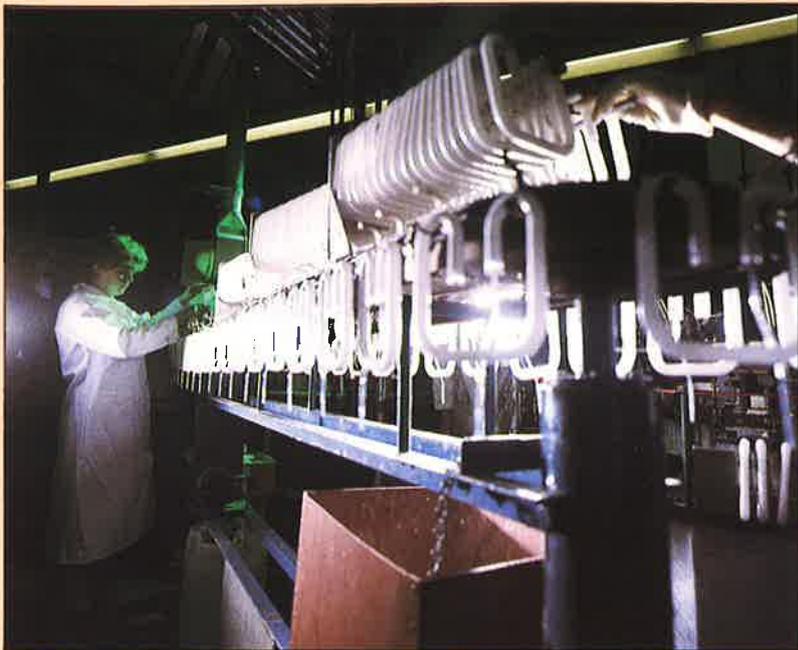
The same systems which provide standby lighting will also serve to guide office or production staff to the appropriate exits in the event of a real emergency. THORN EMI Lighting Engineers will provide the correct level of illumination on all exit routes, thereby ensuring your employees can leave swiftly and safely should the need arise.



At Leyland, fluorescent emergency lights operate as standby lighting if mains power fails. Alternatively, for commercial areas emergency equipment can be integrated into standard luminaires, so avoiding obtrusive and costly separate units.







# LEADERS IN THE WORLD OF LIGHTING

**A**s these pages have shown, THORN EMI Lighting is a company dedicated to the world of light. Our research, testing and laboratory facilities are among the most advanced in the industry. Equally important, we have both the experience and the vision to bring the latest technology to bear on your particular requirements.

If this brochure has stimulated your own imagination, why not call your nearest Sales office. You'll find a highly trained team of lighting specialists ready to answer your questions and interpret your ideas, and any advice you receive is absolutely free.

We also have a comprehensive range of catalogues and leaflets available which describe our product range in detail. We will be delighted to send any of these to you on request.

Remember, the first step towards transforming your working environment is only a phone call away.

*Left: A battery of CSI lamps on a tilted frame is used as an "artificial sun" to test solar panels at the Technical University of Denmark.*

**THORN EMI Lighting Limited**  
**U.K. Regional Sales Offices and Showrooms**

**Belfast**  
Prince Regent Road, Castlereagh,  
Belfast BT5 6QR  
Telephone 0232-794122  
Telex 74695 TLLBft G

**Birmingham**  
Thorn House, Aston Church Road,  
Sallley Trading Estate,  
Birmingham B8 1BE  
Telephone 021-327 1535  
Telex 337435 TLLBhm G

**Cardiff**  
Thorn House, Penarth Road,  
Cardiff, Wales CF1 7YP  
Telephone 0222-44200  
Telex 498334 TLLCdf G

**Leeds**  
Thorn House, 3 Ring Road,  
Lower Wortley, Leeds LS12 6EJ  
Telephone 0532-636321  
Telex 55110 TLLLds G

**London**  
Victoria Trading Estate, Victoria Way,  
Charlton, London SE7 7PA  
Telephone 01-858 3281  
Telex 896171 TLLChn G

**Manchester**  
Thorn House, 2 Claytonbrook Road,  
Clayton, Manchester M11 1BP  
Telephone 061-223 1322  
Telex 688642 TLLMcr G

**Scotland**  
Thorn House, Industrial Estate,  
Larkhall, Lanarkshire ML9 2PA  
Telephone 0698 886007  
Telex 777930 TLLLkh G

**Government Contracts & Order Office**  
Tricity House  
284 Southbury Road,  
Enfield,  
Middlesex EN1 1TJ  
Telephone 01-363 5353  
Telex 263201 THORN G TOTLG

**Head Office**  
Tricity House  
284 Southbury Road,  
Enfield,  
Middlesex EN1 1TJ  
Telephone 01-363 5353  
Telex 263201 THORN G TOTLG

**Direct Exports Head Office**  
PO Box 18, 3 King George Close  
Eastern Avenue West, Romford  
Essex RM7 7PP  
Telephone 0708 66033  
Telex 897759 THLITE G  
Calbes Thornlite Rford

**International Subsidiaries**  
Tricity House  
284 Southbury Road  
Enfield, Middlesex EN1 1TJ  
Telephone 01-363 5353  
Telex 263201 THORN G TOTLG  
**Subsidiaries in**

**Australia**  
THORN EMI Lighting Ltd  
210 Silverwater Road  
Lidcombe  
New South Wales 2141  
Telephone 648 8000  
Telex 22350 THORN LIT Sydney

**Austria**  
THORN EMI Licht  
Erzherzog-Karl-Strasse 57  
1220 Wien  
Telephone (0222) 2335 71  
Telex 136128 THOR WA

**Canada**  
THORN EMI Lighting Canada Ltd  
1400 Meyerside Drive  
Mississauga  
Ontario L5T 1H2  
Telephone (416) 677 4248  
Telex (0) 6 968 569

**Denmark**  
THORN EMI Belysning AB  
Brogrenen 8  
DK 2635 Ishøj  
Telephone (02) 54 06 77  
Telex 33197 KENWD DK

**France**  
THORN EMI Éclairage  
61 Rue Emile Zola  
69150 Decines  
Telephone (7) 849-81-12  
Telex 380900 THORN F

**Germany**  
THORN EMI Licht GmbH  
Möhnestrasse 55  
5760 Arnsberg 1  
Telephone (029 32) 205-0  
Telex 847166 D

**Ireland**  
THORN EMI Lighting Ireland Ltd  
320 Harolds Cross Road  
Dublin 6  
Telephone 961877  
Telex 4596 TORN EI

**Italy**  
SIVI Illuminazione SpA  
Casella Postale 604  
36100 Vicenza  
Telephone 0444 595100  
Telex 480049 SIVI

**New Zealand**  
THORN EMI Lighting (NZ) Ltd  
PO Box 15150  
13a Veronica Street  
New Lynn  
Auckland 7  
Telephone 871-169  
Telex NZ 2648

**Norway**  
THORN EMI Belysning A/S  
Brobekkveien 107  
Oslo 5  
Telephone (02) 64 28 00  
Telex 16928 ATLAS N

**South Africa**  
THORN EMI Lighting (Pty) Ltd  
PO Box 43075  
Corner Watt & Edison Street  
Industria 2042  
Transvaal  
Telephone (011) 839 2434  
Telex J0149

**Sweden**  
THORN EMI Belysning AB  
Anderstorpsvagen 4  
Box 4203  
17104 Solna  
Telephone (08) 83 4100  
Telex 10106 THORN ABS

Distribution in Belgium, Holland, and  
Switzerland.

THORN EMI Lighting Limited is constantly developing and improving its products. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. The right is reserved to change specifications without prior notification or public announcement. The majority of the products described herein are manufactured in the United Kingdom, products not so manufactured will bear an appropriate indication. All goods supplied by the Company are supplied subject to the Company's General Conditions of Sale, a copy of which is available on request.



THORN EMI Lighting Advisory Centres