

**SALTEND COGENERATION PLANT:
2002 UPDATE OF ENVIRONMENTAL STATEMENT**

1. INTRODUCTION

1.1 Environmental Statement 2001

In 2002, the Saltend Cogeneration Plant, operated by the Saltend Cogeneration Company (SCCL) received registration under the Eco-Management and Audit Scheme (EMAS)¹. As part of the registration process, an Environmental Statement was published, and verified by EAQA, which contained the following information:

- A message from the Station Manager
- Health Safety and Environmental Policy
- A description of the Environmental Management System
- A review of Environmental Aspects and Impacts
- Data relating to the environmental performance of the Power Plant in 2001
- Performance against 2001 environmental improvements objectives
- Environmental Improvement Objectives for 2002.

1.2 Update of Environmental Statement 2001

This document comprises an annual update of environmental improvement objectives and environmental performance information for the year 2002.

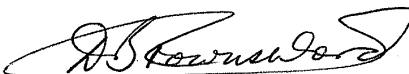
Since the publication of the 2001 Environmental Statement, the Health Safety and Environmental Policy was re-approved by the Station Manager in April 2002. SCCL maintained full legal compliance and there have been no changes to the Environmental Management System. The performance-auditing programme for 2002 was completed with all actions closed out. This included both internal review and audit by independent external bodies. An expanded programme was developed for auditing future performance.

2. ENVIRONMENTAL IMPROVEMENT OBJECTIVES

The following objectives were set for 2002 based on a review of the significant aspects and impacts, with contributions and support from SCCL personnel.

2002 OBJECTIVE	TARGET	PROGRESS
Enhance Contractor induction material to include mandatory compliance with the site Health Safety and Environmental policy and schedule 9 requirements	May 2002	Completed - new handout material compiled.
Implement training programme for appropriate staff to practice spillage response	May 2002	Completed - training courses held from 5 th -7 th June 2002.
Enhance procedures relating to the	May 2002	Completed - new

¹ EC No 761/2001


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delivery of substances by tanker to include the management of diesel oil deliveries		procedure PR-OPS-59 (version 1).
Establish recording system for quantities of unburned gas released	June 2002	System devised and data included in report to EA - Feb 03
Improve waste management procedure by integrating IPC Authorisation (section 6) requirements	June 2002	Completed - see procedure PR-ENV-11 (version 3).
Develop and agree an off-site creative conservation initiative in consultation with English Nature	July 2002	Initiative developed with SCCL commitment to proceed
Achieve EMAS registration.	August 2002	Completed - registered 14 th November 2002
Commission dock-dosing equipment as agreed with the Environment Agency	December 2002	Chemical delivery point installed. Control logic prepared.
Survey external noise levels for review and reporting.	December 2002	Noise surveys completed by specialist noise consultant and data reported to the relevant local authorities.
Install silencing equipment for Start-up and Secondary Boiler De-aerator vents	December 2002	Dearator vent noise levels determined. Design assessment completed.

The following Environmental improvement objectives are set for 2003

Environmental Management

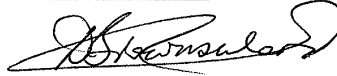
2003 OBJECTIVE	TARGET
Review maintenance of environmentally critical plant	June 2003
New environmental accident management plan	December 2003
Introduce new induction hand-out	May 2003

Emissions Monitoring

2003 OBJECTIVE	TARGET
CCTV for stack and cooling tower releases.	December 2003
Establish recording of unburned gas released.	April 2003
Include local air quality in monitoring procedure.	June 2002
Improve dock discharge monitoring	June 2003
Complete new EA reporting requirement.	February 2003

Ecology

2003 OBJECTIVE	TARGET
Complete dock fish survey	May 2003
Support water vole conservation project	April 2003
Agree creative conservation initiative	April 2003


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Noise

2003 OBJECTIVE	TARGET
Silencing equipment for start-up and secondary boiler de-aerator vents.	December 2003
Silencers to HRSG de-aerator vents	August 2003
Noise surveys	December 2003

Resources

2003 OBJECTIVE	TARGET
Site energy efficiency plan.	April 2003
Recycle waste water	March 2003
Complete 'duty of care' audit on waste disposal streams	Sept 2003
Quantify solid waste for off-site disposal.	April 2003

3. ENVIRONMENTAL PERFORMANCE 2002

3.1 Key Raw Material Use

The quantity of key raw materials used on site is summarised below.


RAW MATERIALS	QUANTITY (tonnes)	
	2001	2002
Dock Water (net abstraction)	5,626,164	7,433,448
Mains (potable) water	1,925,222	2,272,254
Natural Gas	1,394,796	1,196,672
Sodium hydroxide (caustic soda)	3,380	3,696
Sulphuric acid	3,336	3,041
Sodium hypochlorite (bleach)	735	817

An increase in water use was required to satisfy customer demand for process steam. However without the improvements made to operational practices the increased consumption would have been even larger.

3.2 Energy Produced

The quantity of electricity and steam produced by the Saltend Cogeneration Plant is summarised below.

ENERGY PRODUCTION	QUANTITY	
	2001	2002
Electricity exported (megawatts)	8,200,840	7,413,576
Steam supplied (tonnes)	944,420	1,199,557


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3.3 Air Emissions

Emissions to air from the operation of the Saltend Cogeneration Plant are summarised below.

AIR EMISSIONS	QUANTITY (tonnes)		LIMIT (tonnes)
	2001	2002	
Carbon dioxide	< 3,836,000	< 3,290,849	4,077,000
Nitrogen oxides	< 3,413	< 3,176	4,055
Carbon monoxide	< 109	< 92	not applicable
Sulphur dioxide	< 44	< 38	50
Unburned Natural Gas	not available	< 31	not applicable

3.4 Water

Discharges to water from the operation of the Saltend Cogeneration Plant are presented below.

WATER DISCHARGES	QUANTITY		LIMIT
	2001	2002	
Water abstracted (tonnes)	13,650,243	14,731,198	26,280,000
Total discharge (tonnes)	8,024,079	7,297,750	not applicable
Cadmium (kilograms)	< 0.012	< 0.013	2
Mercury (kilograms)	< 0.052	< 0.014	10

3.5 Waste

Waste arising from the operation of the Saltend Cogeneration Plant is summarised below.

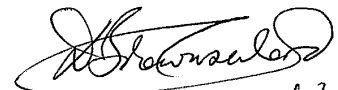
WASTE DISPOSAL	QUANTITY	
	2001	2002
General Waste	4,628 tonnes	199 tonnes
Special Waste	33 tonnes	6 tonnes

Improved monitoring of waste disposals provided a better estimate of the quantities arising in 2002. Recycling efforts also reduced the disposal of waste. This included the use of re-usable 'stillage' boxes for the delivery of components required for annual maintenance.

3.2 Complaints

In 2002 the Plant received one call concerning noise. This was during the commissioning of a new process steam control valve. Precautionary checks at the time did not reveal a significant increase in site boundary noise. However, in response to the call new operational settings were immediately adopted. A new environmental improvement objective was also developed. This involves fitting silencers to the HRSG Dearator vents. The measures taken were explained to the caller who was also invited to visit the Plant.

No other environmental complaints were received during 2002.


 J. Stammers
 CMAA Ltd

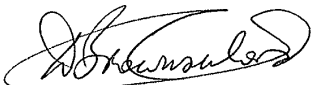
4. FURTHER INFORMATION

The next update of environmental information will be issued in 2004 and will contain data for the year 2003.

In the meantime, further information can be sought from

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Telephone 01482 895 500


EAOA Ltd



SALTEND COGENERATION COMPANY LTD

VERIFICATION STATEMENT BY AFAQ-EAQA LTD

AFAQ-EAQA Ltd is pleased to have been asked by the Saltend Cogeneration Company Ltd to carry out the independent review and verification of the Saltend Cogeneration Plant.

Methodology

In order to carry out this task, the following activities were undertaken:

- ◆ Review conformity to the company environmental policy
- ◆ Review company performance against corporate and local environmental objectives
- ◆ Interview staff responsible for the preparation of the statement and supporting data
- ◆ Review a sample of the environmental performance data submitted by all locations where Saltend is the owner and/or operator including overseas locations
- ◆ Examine a sample of the corporate internal environmental audit reports
- ◆ Review a sample of the environmental management system certification/surveillance audit reports for the ISO 14001 certificated UK locations

Conclusions

On the basis of the investigations and verification carried out, we are satisfied that the statements and data contained in the Saltend Cogeneration Company's Environmental Statement provide an accurate representation of the commitment to a high level of environmental management and the overall environmental performance of the Saltend Cogeneration Company Ltd.

D Brownsword
Nominated Lead Verifier, AFAQ-EAQA Ltd
July 2003

