

Water Quality Public Register Scanning – Work Instruction
Appendix 1

PERMIT REFERENCE:
(EDRM OTHER REFERENCE)

Permit Reference as it appears on the permit including characters (/.-\)

254/1885

CONSENT NO. 254/1885

THE WATER RESOURCES ACT 1991 – SCHEDULE 10(6)
(As amended by the Environment Act 1995)

**NOTICE OF MODIFICATION OF CONSENT
TO DISCHARGE**

To: British Energy Generation Limited
Hartlepool Power Station
Tees Road, Hartlepool, TS25 2BZ

The Environment Agency ("the Agency") in pursuance of its powers under the Water Resources Act 1991(as amended by the Environment Act 1995) having reviewed the consent for the making of a discharge of **Trade Effluent** from Hartlepool Power Station, **Hereby modifies** consent number 254/1885, issued on 5th October 2005 and modified on 28th August 2007, as specified below:-

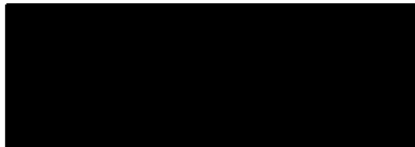
SECTION 254/1885.01: TRADE EFFLUENT

1.6 Composition

Condition 1.6.1e, which relates to the maximum weekly load of Dimethylamine, is deleted.

NOTES

- i) All other conditions, pages, schedules and annexes as included in Consent No. 254/1885, dated 5th October 2005 and modified on 28th August 2007, remain unaltered.
- ii) The effect of this Modification is to remove the weekly load limit on Dimethylamine.
- iii) If the Applicant or Consent Holder considers that the conditions imposed by this Modification are unreasonable they may, within three months of the date given below, appeal to the Secretary of State DEFRA c/o the Environment Appeals Team, The Planning Inspectorate, Room 4/04, Kite Wing, Temple Quay House, 2 The Square, Temple Quay, Bristol, BS1 6PN.

Signed  Date 24th September 2008

Permitting Team Leader

CONSENT NO. 254/1885

**THE WATER RESOURCES ACT 1991
(As amended by the Environment Act 1995)**

SECTION 88 - SCHEDULE 10

**NOTICE OF MODIFICATION OF CONSENT
TO DISCHARGE**

**To: BRITISH ENERGY GENERATION LIMITED
HARTLEPOOL POWER STATION, TEES ROAD
HARTLEPOOL, CLEVELAND, TS25 2BZ**

[For the attention of Mr. S Crooks, Station Director]

NOTICE is hereby given that **Consent Number 254/1885**, issued on the 5th day of October 2005, and as amended by any other relevant Modifications and Variations, in respect of the making of a Discharge of Trade Effluent from Hartlepool Power Station to the Seaton Snook Drain, is hereby Modified as follows:

Section 254/1885 – Trade Effluent

- Condition 1.10 - which relates to the Feasibility Study, is revoked in its entirety and no longer applies.
- Condition 1.11 - which relates to the Improvement Programme, is revoked in its entirety and no longer applies.
- Condition 1.12 - which relates to the Early Review, is revoked in its entirety and no longer applies.
- Condition 1.15 - which relates to "List II Substances", shall now read as follows:-

1.15 Listed Substances

- 1.15.1** The Discharge shall not contain a concentration of any listed substance (List I and List II Substances as defined in the Dangerous Substances Directive 76/464/EEC) such as to cause any of the relevant Environmental Quality Standards set out in DoE Circular 007/89, SI 1997 No. 2560 and SI 1998 No. 389 to be exceeded in the receiving water.

[the list of dangerous substances is given on Page 10 of 12 of Consent No. 254/1885

[Continued on Page 2 →]

CONSENT NO. 254/1885

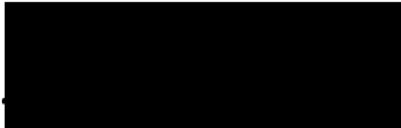
**THE WATER RESOURCES ACT 1991
(As amended by the Environment Act 1995)**

VARIATION OF CONSENT TO DISCHARGE (cont'd)

NOTES

1. All other conditions, pages, schedules, and annexes as included in Consent Number 254/1885, dated the 5th October 2005, and as amended by any relevant Modifications and Variations, remain unaltered.
2. The effect of this Modification is to remove redundant conditions following the production of the "Feasibility Study" and subsequent agreement between the Consent Holder and the Agency.
3. If the Applicant or Consent Holder considers that the conditions imposed by this Variation are unreasonable they may, within three months of the date given below, appeal to the Secretary of State DEFRA c/o the Environment Appeals Team, The Planning Inspectorate, Room 4/12, Eagle Wing, Temple Quay House, 2 The Square, Temple Quay, Bristol, BS1 6PN.

Subject to the provisions of Paragraphs 7. & 8. of Schedule 10 of the Water Resources Act 1991, as amended by the Environment Act 1995, no notice shall be served by the Agency, altering the Variation made by this notice, without the agreement in writing of the Consent Holder, during a period of four years from the date this notice is served

Signed  ... Date 28th August 2007

**D. SHEPHERD, REGULATORY WATER QUALITY TEAM LEADER
ON BEHALF OF THE ENVIRONMENT AGENCY, NORTH EAST REGION**

DATE OF ENTRY
INTO REGISTER:

30 October 2005

Consent to Discharge

Water Resources Act 1991

(as amended by the Environment Act 1995)

Consent Holder:

**British Energy Generation
Limited**

Hartlepool Power Station
Tees Road
Hartlepool
TS25 2BZ

For the attention of:

Mr Wayne D B Johnson
Environmental Safety Group Head

Consent to Discharge from:

Hartlepool Power Station
Tees Road
Hartlepool
TS25 2BZ

[Discharge to Seaton Snook]

Consent Number:

254/1885

Environment Agency

Tyneside House, Newcastle Business Park, Newcastle upon Tyne NE4 7AR

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Introduction

This note does not form part of the Consent.

This Consent does not exempt the Consent Holder from obtaining any Consent required by, or from complying with, any other statutory provisions, statutory instruments or byelaws.

If the Applicant or Consent Holder considers that the conditions of this Consent are unreasonable they may within three months from the giving of the Consent, appeal to the Secretary of State for the Environment, c/o Environmental Appeals Administration, The Planning Inspectorate, Environmental Appeals Team, Room 215, Regus Building, 1 Friary, Temple Quay, Bristol, BS1 6EA.

The Agency intends to monitor the impact of the Discharge on the receiving waters and may after the statutory period review this Consent as appropriate.

Following a review, this new Consent is issued to replace Consent Ref. No 254/1108 which is revoked concurrently.

Consent History

Detail	Date	Comment
Consent No. 254/478	Issued : 26 May 1972	Reviewed : 7 July 1987
Consent No. 254/478	Reviewed : 7 July 1987	Revoked : 19 December 1991
Consent No. 254/1108	Issued : 19 December 1991	Revoked : 5 October 2005
Consent No. 254/1885	Issued : 5 October 2005	Effective : 5 October 2005

Consent to Discharge

Water Resources Act 1991
Section 88, Schedule 10
(as amended by the
Environment Act 1995)



**ENVIRONMENT
AGENCY**

Consent to Discharge

Consent Number **254/1885**

To:

British Energy Generation Limited

Hartlepool Power Station

Tees Road, Hartlepool, Cleveland, TS25 2BZ

The Environment Agency ("the Agency") in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby consents to the making of a discharge, as follows:

Trade Effluent – Generator transformer cooling water plus water treatment plant effluents and surface water drainage - (254/1885.01)

From: **Hartlepool Power Station**

At: **Tees Road,**

Hartlepool, TS25 2BZ

To: **Seaton Snook Drain, River Tees Catchment**

Subject to the conditions set out in this Consent.

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991 (as amended by the Environment Act 1995), no notice shall be served by the Agency, altering this Consent, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this Consent takes effect (see also Condition 1.12).

This Consent is issued and takes effect on: **5th October 2005**

Signed



D. SHEPHERD, Regulatory Water Quality Team Leader

On behalf of the Environment Agency, North East Region

Conditions of Consent

1 TRADE EFFLUENT (254/1885.01)

1.1 Source and Nature

- 1.1.1 The Discharge shall be derived from the Hartlepool Power Station, Tees Road, Hartlepool, TS25 2BZ and shall consist solely of trade effluent, including generator transformer cooling water, water treatment plant effluents and surface water drainage.

1.2 Location

- 1.2.1 The Discharge shall be made in the manner and at the place specified as:
- a discharging via an existing outlet to the Seaton Snook Drain into the Seaton Channel - River Tees Estuary,
 - b at National Grid Reference NZ 5320 2700,
 - c as indicated 'Consent Point' on the Site Plan included in this Consent.

1.3 Volume of Discharge

- 1.3.1 The volume of trade effluent discharged in any one day (any period of twenty four consecutive hours) shall not exceed forty one thousand cubic metres (41,000 m³/d).

Note: Rainfall dependent surface water is also discharged via the same outfall – 1.2.1a above – but is excluded from the volume limitations and charging requirements relating to this consent.

1.4 Flow Measurement and Related Conditions

- 1.4.1 At the request of the Agency, the Consent Holder shall install, operate and maintain a means of flow measuring to a specification and at a location required by the Agency, to enable the daily volume and/or instantaneous flow of the discharge to be recorded.
- 1.4.2 The Consent Holder shall calibrate, operate and maintain the flow monitoring and recording system to a standard agreed or specified by the Agency. The flow and maintenance records shall be provided to the Agency as and when requested.

1.5 Temperature

- 1.5.1 The temperature of the Discharge shall not exceed thirty five degrees...

...Celsius (35°C), or fifteen degrees Celsius (15°C) in excess of the temperature of the intake water for the power station taken from the Seaton Channel, whichever is the higher.

1.6 Composition

1.6.1 The composition of the Discharge shall be as follows:-

- a** Oil (determined by infra red Spectroscopy) shall not exceed 30 milligrams per litre (30mg/l)
- b** The pH shall not be less than five (5) and not more than nine (9).
- c** ammoniacal nitrogen (expressed as N) shall not exceed two hundred milligrams per litre (200 mg/l)
- d** ammoniacal nitrogen load shall not exceed 335Kg per week
- e** the Dimethylamine load shall not exceed 600Kg per week
- f** Chromium shall not exceed fifty micrograms per litre (50.µg/l)

1.7 Substantial Change

1.7.1 A Discharge shall not be made from the site if it would cause a significant increase in the polluting effects of the Discharge on controlled waters.

1.7.2 An increase in the polluting effects of the Discharge on controlled waters is not significant for the purposes of this condition, if it relates to any characteristic of the Discharge which is specifically regulated by Conditions 1.6.1 of this Consent, but it may be significant if it is caused by a change in some other characteristic of the Discharge.

1.8 Sample Point

1.8.1 A sample point shall be provided and maintained at the point of discharge into Seaton Snook, at National Grid Reference NZ 5320 2700, as indicated on the site plan included in this consent, or as otherwise agreed in writing with the Agency, so that a representative sample of the Discharge may be obtained.

1.8.2 The Consent Holder shall ensure that all constituents of the Discharge pass through the said sample points at all times, and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.

1.8.3 A sample point shall also be provided and maintained at the cooling water intake at national grid reference NZ 5288 2679 as indicated on the site plan included in this consent, or as otherwise agreed in writing with the Agency, so that a representative sample of the intake water may be obtained. This sample point is required in relation to Condition 1.5 only.

1.9 Clean-up

- 1.9.1 Where the discharge results in unsatisfactory matter being visible in the receiving watercourse or on the banks of the receiving watercourse, in the vicinity of the outfall, the Consent Holder shall take all reasonable steps to collect and remove any such matter as soon as reasonably practicable after the Discharge has been reported.

1.10 Feasibility Study

- 1.10.1 The Consent Holder shall, by 30th September 2006, or any alternative date as agreed in writing with the Agency, produce and submit to the Agency a written report assessing the means of removing, or significantly reducing, the effluent from the current discharge point to the Seaton Snook. The report shall address alternative discharge locations and include the costs and benefits and environmental impact involved.

1.11 Improvement programme

- 1.11.1 In addition to the above feasibility study, the Consent Holder shall produce and submit to the Agency by 30th September 2007, or any alternative date as agreed in writing with the Agency, an appropriate Improvement programme describing the means to achieve the removal, or significant reduction, of the effluent to the Seaton Snook.
- 1.11.2 The Consent Holder shall, unless otherwise agreed in writing with the Agency implement the said improvement Programme by 30th September 2008, or any alternative date as agreed in writing with the Agency.

1.12 Early Review

- 1.12.1 If by the 30th September 2007, or any alternative date as agreed in writing with the Agency, an Improvement Programme (1.11 above) is not produced or agreed with the Agency, the Agency may review the conditions of this consent within the statutory period in accordance with prior agreement and/or the relevant Directives.

1.13 Notification

- 1.13.1 The Consent Holder shall as soon as reasonably practicable notify the Agency of any incident or non-routine action that may have adversely affected, or have the potential to adversely affect, the effluent quality.

1.14 Notice of Change Condition

- 1.14.1 The Consent Holder shall notify the Agency in writing if any known introduction or material change in respect of discharges from trade...

...premises occurs that may increase or introduce in to the effluent any "dangerous substance" as set out in the list of Dangerous Substances included in this Consent (as updated by the Agency from time to time, and notified to the Consent Holder in writing), or any other substance considered by the Consent Holder as having or likely to have a significant effect on the receiving waters.

1.15 List II Condition

1.15.1 The quantity of List II Substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the discharge shall not increase above

- I the levels specifically regulated by specific numeric conditions (see under Composition) , and/or
- II the levels in the discharge on the date of effect of this Consent where no specific level is authorised, and

1.15.2 notwithstanding 1.15.1 above, the discharge shall not contain quantities of any List II Substance such as to cause or contribute to the concentration of that substance in the receiving water exceeding the relevant Environmental Quality Standard (EQS).

1.16 Self- monitoring Condition

1.16.1 The Consent Holder shall undertake monitoring of pH and concentration of, Ammonia, Dimethylamine, Total and Dissolved Chromium, Iron, Ferrous Sulphate and residual oxidants in the effluent and/or its constituent streams at monthly intervals (see also 1.16.3).

1.16.2 The monitoring and an analysis shall be carried out in a manner and by analytical methods satisfactory to the Agency.

1.16.3 Samples for the analysis of Ammonia, Chromium (total and dissolved) and Dimethylamine (as with all other relevant determinands) shall be taken at each sampling event, whether or not the said substances are being discharged..

1.16.4 The specified self-monitoring requirements may be amended by the Agency at any time. The Consent Holder shall implement such changes within 28 days of the receipt of the notice.

1.16.5 The Agency may review the self-monitoring requirements at the request of the Consent Holder only after the analytical results from a minimum of twelve sampling events are available.

1.17 Reporting Requirements

1.17.1 The Consent Holder shall keep records of the results of samples and analyses taken and carried out as part of the self monitoring programme in accordance with Condition 1.16.1 above.

- 1.17.2 Such records shall be made available for inspection by a representative of the Agency at all reasonable times.
- 1.17.3 The Consent Holder shall supply the Agency with a report on the monitoring carried out for 1.16.1 and 1.16.2 above, half yearly or at any other frequency and in a form specified by the Agency.
- 1.18 **Investigate and Monitor Condition**
- 1.18.1 If the Agency is of the opinion that the dangerous substances in the discharge have changed significantly, or that a significant change is likely then at the request of the Agency, the Consent Holder shall undertake any necessary investigations and provide an assessment of the source and quantity of specified List I and List II Substances (as defined in the Dangerous Substances Directive 76/464/EEC) within the discharge.
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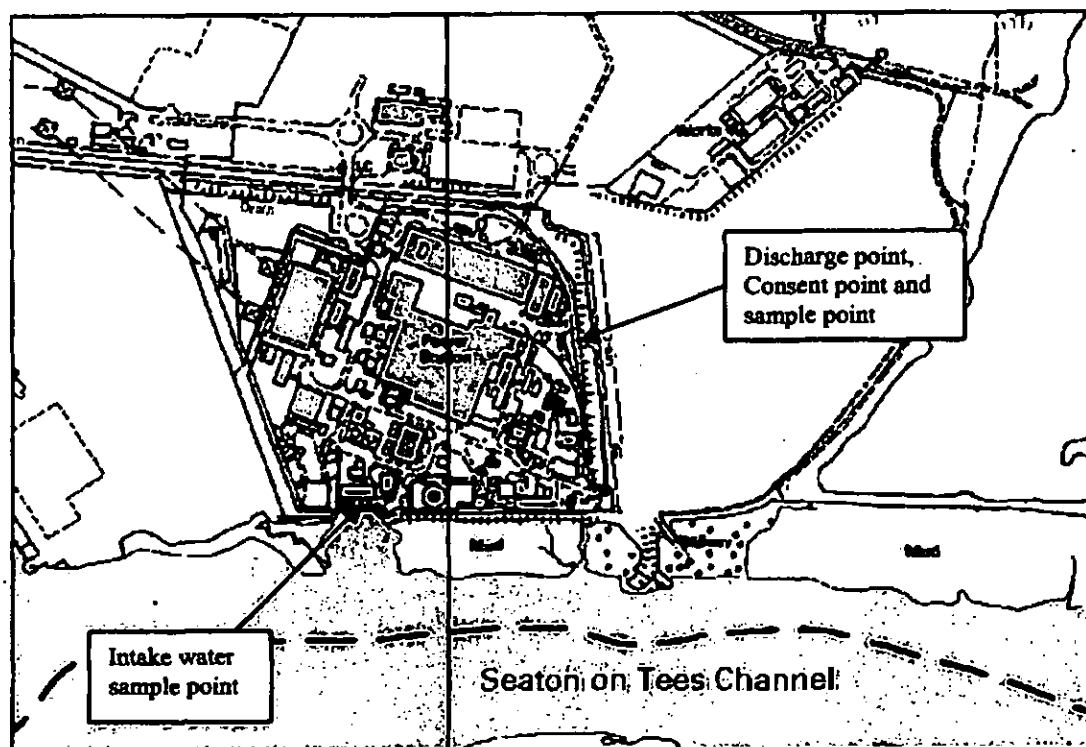
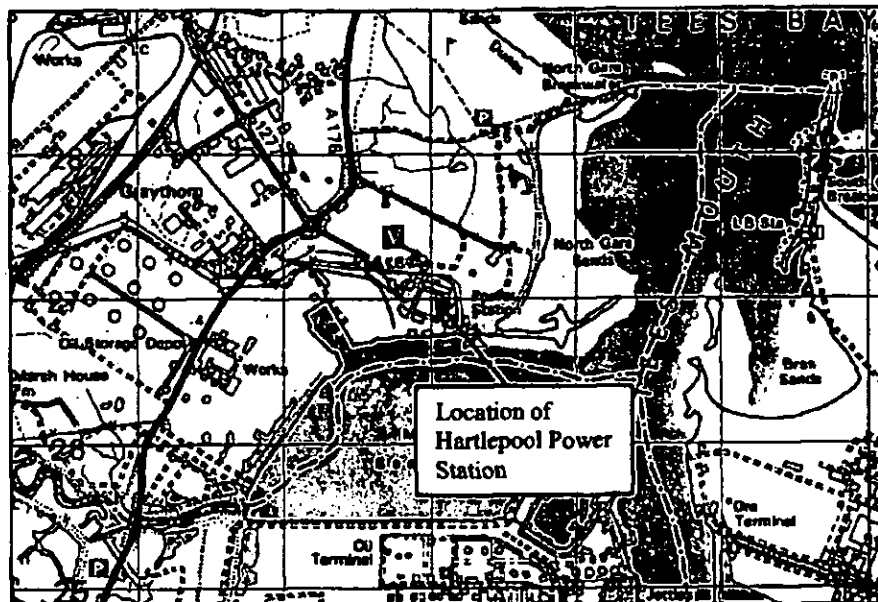
List of dangerous substances

Mercury and its compounds	Cadmium and its compounds	Hexachlorocyclohexane (lindane and related compounds)
Carbon tetrachloride	DDT (the isomers of 1,1,1-trichloro- 2,2 bis(p-chlorophenyl) ethane)	Pentachlorophenol (PCP)
Aldrin	Dieldrin	Endrin
Isodrin	Hexachlorobenzene (HCB)	Hexachlorobutadiene (HCBD)
Chloroform	Polychlorinated biphenyls	Dichlorvos
1,2-Dichloroethane	Trichlorobenzene	Atrazine
Simazine	Tributyltin compounds	Triphenyltin compounds
Trifluralin	Fenitrothion	Azinphos-methyl
Malathion	Endosulfan	Lead
Chromium	Zinc	Copper
Nickel	Arsenic	Iron
pH outside range 5.5 to 9.0	Boron	Vanadium
PCSD'S	Cyfluthrin	Sulcofuron
Fluocifuron	Permethrin	4-Chloro-3-methyl-phenol
2-Chlorophenol	2,4-Dichlorophenol	2,4-D (ester)
2,4-D (non ester)	1,1,1-Trichloroethane	1,1,2-Trichloroethane
Bentazone	Benzene	Biphenyl
Chloronitrotoluenes	Demeton	Dimethoate
Linuron	MCPA	Mecoprop
Mevinphos	Napthalene	Omethoate
Toluene	Triazophos	Xylene
Cyanide	Azinphos-ethyl	Fenthion
Parathion	Parathion-methyl	Trichloroethylene
Tetrachloroethylene	Dioxins	PAHs
Nonyl phenol	Nonyl phenyl ethoxylate	Di-ethylhexyl phthalate
Bisphenol-A	Diazinon	Chlorfenvinphos
Chlorotoluron	Isoproturon	Diuron
Propetamphos	Flumethrin	Amitraz
High-Cis Cypermethrin	Cyromazine	Deltamethrin
Cypermethrin		

This list is applicable as at 1 December 1998 and will be updated as and when changes to the relevant legislative requirements occur.

Site Plan (a)

Location plan for Hartlepool Power Station.

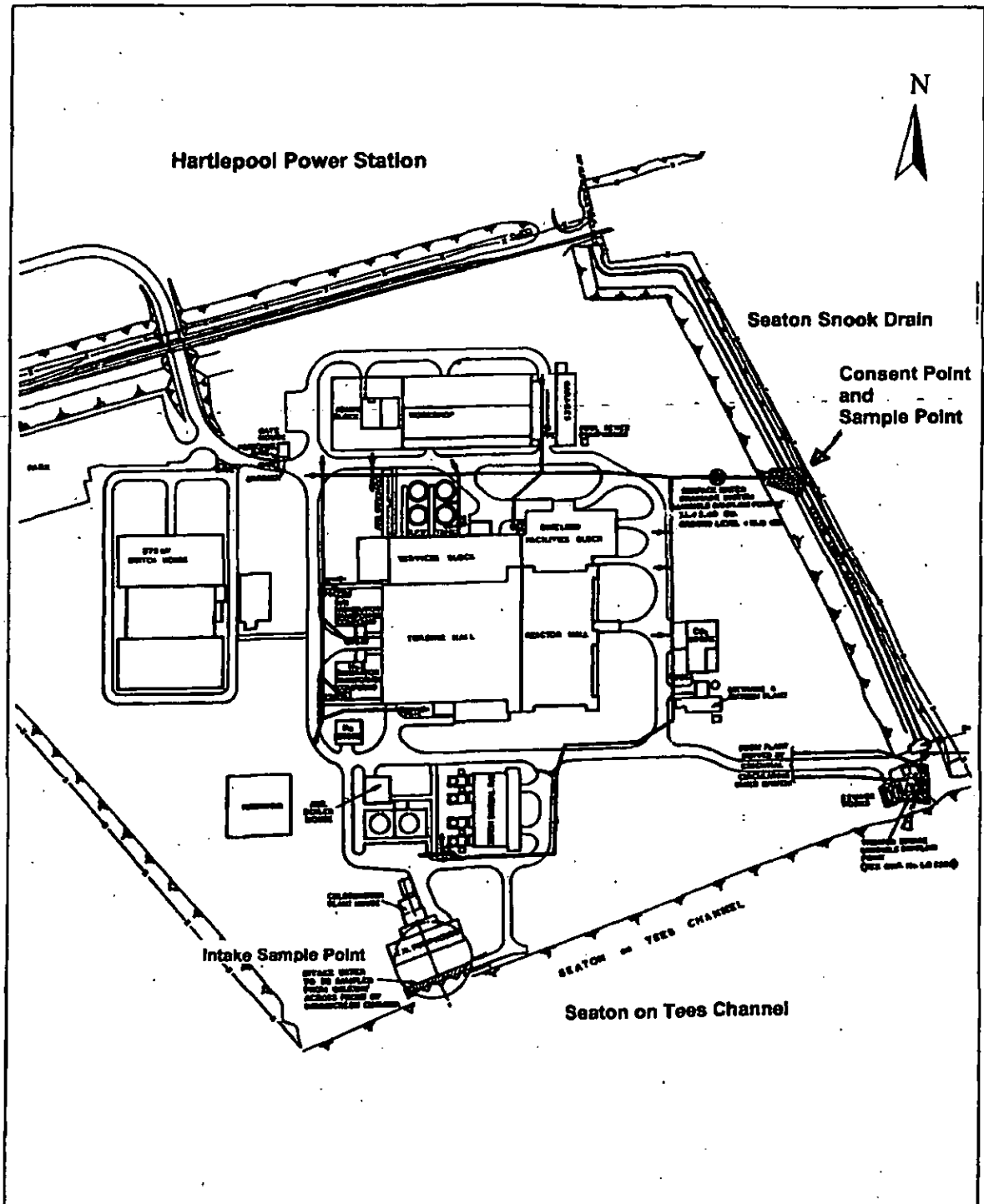


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Site Plan (b)

Drainage Plan for Hartlepool Power Station auxiliary sea water discharge.



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Water Resources Act 1991
as amended by the Environment Act 1995
Consent to Discharge
Certificate of Holder



**ENVIRONMENT
AGENCY**

Part A

To: British Energy Generation Limited
Hartlepool Power Station
Tees Road
Hartlepool
TS25 2BZ

The Environment Agency ("the Agency") hereby confirm that the above named person is a/the registered holder of consent Ref. 254/1885

Nature of Discharge(s): Trade Effluent – Generator transformer cooling water plus water
at Treatment plant effluents and surface water drainage
Hartlepool Power Station, Tees Road, Hartlepool, TS25 2BZ

Note: This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else you must pass the consent to them and tell the Agency within 21 days. Responsibility for the consent cannot be disclaimed by the holder but the registration of holder may be transferred to a successor. To do this please complete the form below, then tear it off and return it to the address shown. If you fail to transfer the consent, even though you are no longer on the site, you may still be liable for prosecution for pollution. If you transfer the consent but do not tell us, you will be committing an offence. In case of any queries please contact your local Environment Agency office.

Part B

Please complete in block capitals or type.

To: **The Environment Agency, Tyneside House, Skinnerburn Road,
Newcastle Business Park, Newcastle Upon Tyne, NE4 7AR**

Water Resources Act 1991: Notice of transfer of consent to discharge

Consent: **254/1885**

Name:
Address:

I/We* hereby serve notice on the Agency that I/we* am/are* no longer a/the* Holder of the above consent which will be/was* transferred to: * delete as appropriate

Name(s) of new holder(s):
Address:

Post Code:

Date of Transfer to new Holder(s);

Signed:

Dated:

Name (block capitals):

Position:

