

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

EDF Energy Nuclear Generation Limited

Hartlepool Power Station
Tees Road
Hartlepool
Cleveland
County Durham
TS25 2BZ

Variation application number

254/1885/V001

Permit number

254/1885

Hartlepool Power Station

Permit number 254/1885

Introductory note

This introductory note does not form a part of the notice.

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

Under the Registration, Evaluation, Authorisation & restriction of CHemicals (REACH) regulations it will no longer be permissible from 21/09/2017 to dose the Turbine Hall Ancillaries Cooling Water system with potassium chromate which was used as a corrosion inhibitor. Therefore the compliance limit and monitoring requirements for chromium have been removed from 31/10/2017. This date was chosen to allow for monitoring of residual chromate in the system. Potassium chromate has been replaced by a high concentration of potassium hydroxide. Sodium Molybdate will be required if spalling becomes an issue or there are problems with maintaining the chemistry. The Operating Technique OT1 has been incorporated into the permit to regulate the use of sodium molybdate. Compliance limits for the control of sodium molybdate are not required because the substance is not present in environmentally significant quantities in the discharge.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Permit determined 254/1885	05/10/2005	Original Permit issued to British Energy Generation Limited.
Permit modified 254/1885	28/08/2007	Modification to remove redundant conditions following the production of the feasibility study.
Permit modified 254/1885	24/09/2008	Modification to remove the weekly load limit on Dimethylamine.
Application 254/1885/V001 (variation and consolidation)	Duly made 29/06/2017	Removal of chromium limit and the addition of Operating Technique OT1 to regulate the use of sodium molybdate.
Variation determined 25/05/5037/V001	29/09/2017	Varied permit issued.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

254/1885

Issued to

EDF Energy Nuclear Generation Limited ("the operator")

whose registered office is

Barnett Way

Barnwood

Gloucester

GL4 3RS

company registration number **03076445**

to operate a water discharge activity at

Hartlepool Power Station

Tees Road

Hartlepool

Cleveland

County Durham

TS25 2BZ

to the extent set out in the schedules.

The notice shall take effect from 29/09/2017

Name	Date
M Karle	29/09/2017

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit 254/1885.

The following conditions were varied as a result of an Environment Agency initiated variation:

1.1.1, 1.1.2, 1.1.3, 2.3.2, 3.2.2, 4.1.1, 4.1.2, 4.2.1, 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.4.1, 4.4.2, S1.2, Schedule 5 and Schedule 6.

The following conditions were varied as a result of the application made by the operator:

All other conditions.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

254/1885

This is the consolidated permit referred to in the variation and consolidation notice for application **254/1885/V001** authorising,

EDF Energy Nuclear Generation Limited ("the operator"),

whose registered office is

**Barnett Way
Barnwood
Gloucester
GL4 3RS**

company registration number **03076445**

to operate a water discharge activity at

**Hartlepool Power Station
Tees Road
Hartlepool
Cleveland
County Durham
TS25 2BZ**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
M Karle	29/09/2017

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activity:
- (a) in accordance with a written management system that identifies and minimises risks of pollution so far as is reasonably practicable, including those risks arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of the permit.

2 Operations

2.1 Permitted activities

- 2.1.1 The only activity authorised by the permit is the activity specified in schedule 1 table S1.1.

2.2 The site

- 2.2.1 The discharge activity shall take place at the discharge point marked on the site plan at schedule 7 to this permit, and as listed in table S3.2; and, the operating techniques that are the subject of conditions prefixed by 2.3 shall be applied at the locations shown, or otherwise described, in schedule 7.

2.3 Operating techniques

- 2.3.1 For the activity referenced in schedule 1, table S1.1 the activity shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3 Emissions and monitoring

3.1 Emissions to water

- 3.1.1 The limits given in schedule 3 table S3.1 shall not be exceeded.

- 3.1.2 Samples of the incoming and discharge water shall be taken on each sampling occasion. The difference between the discharge and the incoming measurements will be calculated for each sampling occasion.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 The operator shall take appropriate measures to minimise so far as reasonably practicable the polluting effects of the emissions of substances in the discharge not controlled by emission limits (excluding odour).
- 3.2.2 For the activity referenced in schedule 1, table S1.1 all oils or chemicals stored in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Monitoring

- 3.3.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.3.
 - (b) inlet quality specified in tables S3.1 and S3.3.
- 3.3.2 The operator shall maintain records of all monitoring required by this permit.
- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.3.4 Accessible monitoring points shall be provided and maintained to enable the emissions monitoring programme and/or other monitoring to be carried out at the monitoring points specified in table S3.3 of schedule 3 and shown marked on the site plan in schedule 7.

4 Information

4.1 Records

- 4.1.1 All records required to be made by schedule 3, 4 and 5 to this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made.
- 4.1.2 The operator shall maintain convenient access, in either electronic or hard copy, to the records, plan and management system required to be maintained by this permit.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

- 4.2.2 Within the time period after the end of the reporting period specified in schedule 4 table S4.1 the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and monitoring points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.2; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.3 Notifications

- 4.3.1 The Environment Agency shall be notified as soon as reasonably practicable following detection, within the site of the regulated facility of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution; and
- (b) any breach of a limit specified in schedule 3 table S3.1.

Any other significant adverse environmental effects, which may have been caused by the activity, shall also be notified to the Environment Agency as soon as reasonably practicable following detection.

- 4.3.2 The information provided under condition 4.3.1 shall be supported by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

- 4.3.3 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

- 4.3.4 Where the operator proposes to make a change in the nature of the activity by increasing the concentration of, or the addition of, or allowing the introduction of, a substance to the activity to an extent that the operator considers could have a significant adverse environmental effect on the receiving waters, and the change is not permitted by emission limits specified within schedule 3 table S3.1 or the subject of an application for approval under the EP Regulations or under the terms of this permit:

- (a) the Environment Agency shall be notified in writing at least 14 days before the increase or addition or allowing the introduction; and
- (b) the notification shall contain a description of the proposed change.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “as soon as reasonably practicable”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 Activities	
Description of activity	Limits of specified activity
Discharge of trade effluent consisting of cooling waters and water treatment plant effluents via Outlet 1	N/A

Table S1.2 Operating techniques		
Description of documentation	Parts	Date Received
OT1: Document in support of Sodium Molybdate dosing application HAR/TH/R/017/334 Issue No:000 June 2017	Full document.	17/06/2017

Schedule 2 – Waste types, raw materials and fuels

Schedule 2 not in use.

Schedule 3 – Emissions and monitoring

Table S3.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Effluent(s) and discharge point(s)	Parameter	Limit (including unit)	Reference Period	Limit of effective range	Monitoring frequency	Compliance Statistic
Trade effluent consisting of cooling waters and water treatment plant effluents via Outlet 1	Maximum daily discharge volume	41,000 m ³ /day	Total daily volume	N/A	Daily	Maximum
	Maximum rate of discharge	474.54 litres per second	Instantaneous (spot sample)	N/A	Daily	Maximum
	Temperature	35 °C	Instantaneous (spot sample).	N/A	N/A	Maximum
	Temperature	15 °C	Instantaneous (spot sample).	The temperature of the effluent shall not be more than 15 °C above the temperature of the intake water	N/A	Maximum increase compared to inlet sample Condition 3.1.2 applies
	Ammoniacal nitrogen (expressed as N)	200 mg/l	Instantaneous (spot sample)	N/A	Monthly	Maximum
	Chromium (total and dissolved)	50µg/l	Instantaneous (spot sample)	Effective up to and including 31/10/2017	Monthly	Maximum
	pH	5 to 9	Instantaneous (spot sample)	N/A	Monthly	Minimum and maximum
	Oil (determined by infra red spectroscopy)	30 mg/l	Instantaneous (spot sample)	N/A	N/A	Maximum

Table S3.2 Discharge points			
Effluent Name	Discharge Point	Discharge point NGR	Receiving water/Environment
Trade effluent consisting of cooling waters and water treatment plant effluents	Outlet 1	NZ 53181 26980	Seaton Snook Drain

Table S3.3 Monitoring points			
Effluent(s) and discharge point(s)	Monitoring type	Monitoring point NGR	Monitoring point reference
Trade effluent consisting of cooling waters and water treatment plant effluents via Outlet 1	Effluent sampling	NZ 53181 26980	Effluent Sample Point Monitoring point to be appropriately labelled.
	Inlet sampling	NZ 52880 26790	Inlet Sample Point Monitoring point to be appropriately labelled.

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Monitoring point reference	Reporting period	Period begins
Total daily volume	Effluent Sample Point	Half yearly or at any other frequency as agreed in writing by the Environment Agency Report to be submitted within 28 days unless otherwise specified in writing by the Environment Agency	1 st January
Ammoniacal nitrogen (expressed as N)	Effluent Sample Point		
Iron	Effluent Sample Point		
Ferrous sulphate	Effluent Sample Point		
Total residual oxidant	Effluent Sample Point		
pH	Effluent Sample Point and Inlet Sample Point		
Chromium (total). Effective up to and including 31/10/2017.	Effluent Sample Point		
Chromium (dissolved). Effective up to and including 31/10/2017.	Effluent Sample Point		

Table S4.2 Reporting forms	
Parameter	Reporting format
Total daily volume	WISKI electronic format specified by the Environment Agency
Ammoniacal nitrogen (expressed as N)	WISKI electronic format specified by the Environment Agency
Iron	WISKI electronic format specified by the Environment Agency
Ferrous sulphate	WISKI electronic format specified by the Environment Agency
Total residual oxidant	WISKI electronic format specified by the Environment Agency
pH	WISKI electronic format specified by the Environment Agency
Chromium (total). Effective up to and including 31/10/2017.	WISKI electronic format specified by the Environment Agency
Chromium (dissolved). Effective up to and including 31/10/2017.	WISKI electronic format specified by the Environment Agency

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection or unless otherwise agreed in writing by the Environment Agency	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released/type or nature of sewage released	
Best estimate of the quantity or rate of release of substances and/or duration of discharge	
Best estimate of the environmental impact of the discharge	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit specified in schedule 3 table S3.1	
The information specified below is to be notified to the Environment Agency as soon as reasonably practicable following detection.	
Monitoring point reference/ source	
Self monitoring regime (where relevant)	
Type of failure	
Date of sample/event	
Parameter	
Result and units	
Limit and units	

Part B – to be submitted as soon as reasonably practicable unless otherwise agreed in writing by the Environment Agency

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident/breach/exceedance	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“appropriate measures” for the purposes of the emission of substances not controlled by emission limits condition (condition 3.2.1) do not require the operator to undertake treatment to a level beyond that specified in schedule 1 table S1.1, or to carry out routine monitoring for substances not controlled by emission limits.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the permitted activities, which are not controlled by an emission limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

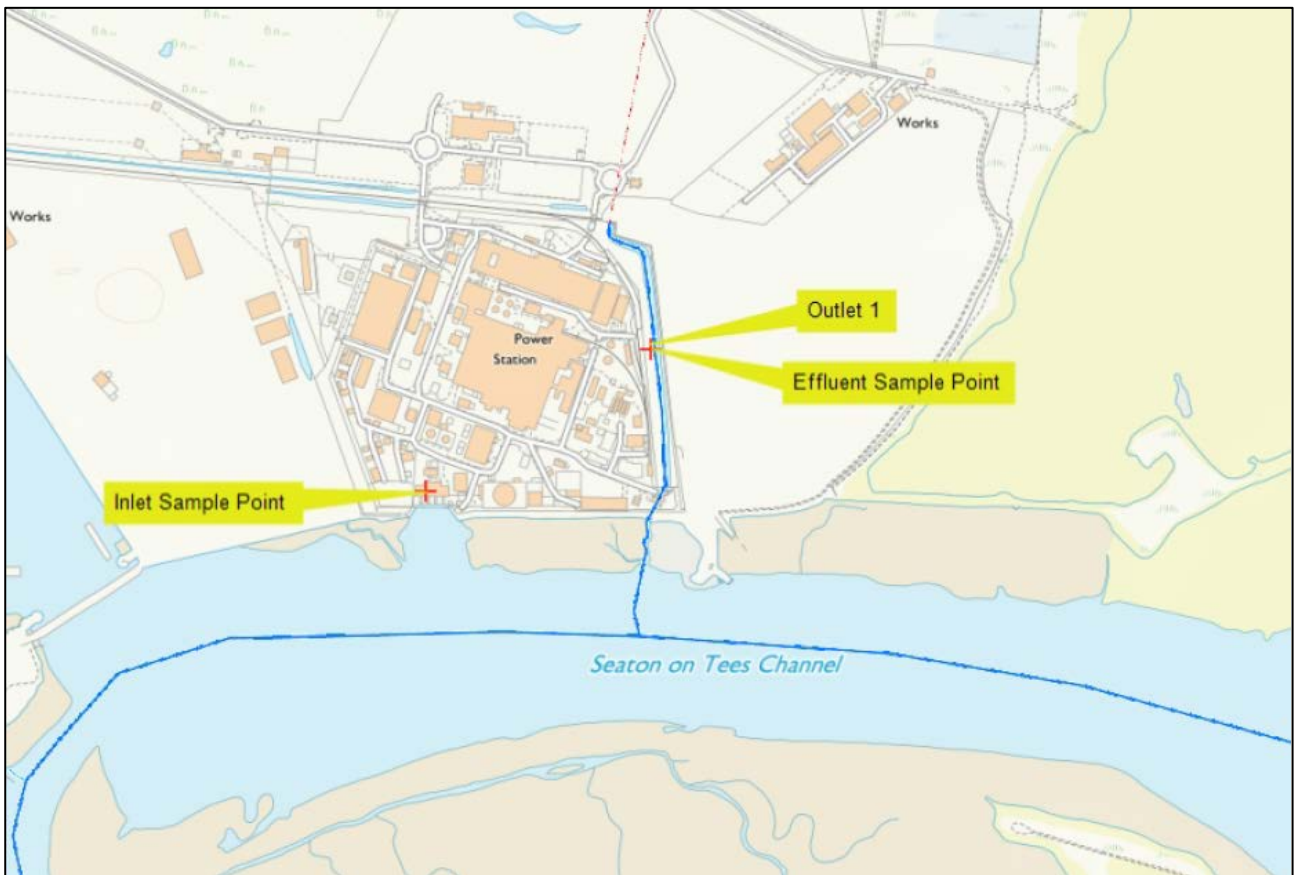
“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“half yearly” means twice every year commencing on 1 January or 1 July.

“significant pollution” means a category 1 or category 2 incident indicated by the Common Incident Classification Scheme (CICS).

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



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END OF PERMIT