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Wales

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Valero Energy Limited

Pembroke Refinery
Pembroke
Pembrokeshire
SA71 5SJ

Variation number
EPR/YP3930EX/V003

Permit number
EPR/YP3930EX

Pembroke Refinery

Permit number EPR/YP3930EX

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

This variation allows Valero to accept hazardous waste on to their permitted installation in Pembroke.

The schedules specify the changes made to the original permit.

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
Application QP3033LW	Duly made 21/09/2006	
Additional Information Received		Confirmation of site boundary.
Certificate of Incorporation	18/08/06	
Details on combustion units	24/01/07	
Site plan	24/02/07	
Response to Schedule 4 notice issued	02/02/07	
08/12/06	09/02/07	
	20/03/07	
	12/04/07	
	01/05/07	
Response to Schedule 4 notice issued	25/05/07	
02/04/07	15/06/07	
Response to Schedule 4 notice issue	19/06/07	
02/05/07	16/07/07	
Response to Schedule 4 notice issued	16/07/07	
04/01/07	17/09/07	
Historical data on emission to water	21/09/07	
Annual VOC emissions	25/09/07	
Historical data on emissions to air		
Historical data on carbon monoxide releases to air	04/10/07	
Sulphur dioxide emissions from sulphur recovery unit	15/10/07	
	16/10/07	
Letter justifying request for higher annual mass limit	17/10/07	
e-mail detailing methods used for monitoring emissions to water	01/11/07	

Status log of the permit		
Description	Date	Comments
e-mail detailing SO2 releases from SRU and % efficiency e-mail detailing effluent temperature e-mail on volumetric flows of A9/A10 flue e-mail on H2S concentration in Refinery fuel gas		
Permit determined	20/12/2007	Permit issued
Variation application ERR/QP3033LW/V002	Duly made 13/08/10	
Variation issued ERR/QP3033LW/V002	11/09/10	
Notified of change of company name and registered office address	26/08/11	
Variation issued EPR/QP3033LW/V003	21/09/11	
Variation application EPR/QP3033LW/V004	06/01/12	
Variation issued EPR/QP3033LW/V004	05/04/12	
Variation determined EPR/QP3033LW/V005	26/03/13	
Transfer application EPR/YP3930EX/T001 (full transfer of permit EPR/QP3033LW)	Duly made 18/09/13	
Transfer determined EPR/YP3930EX	01/01/14	Permit transferred to Valero Energy Limited company No 8566216 as of 01/01/14, from Valero Energy Limited company No 145197
Regulation 60 Notice sent to the Operator	08/10/15	Issue of a Notice under Regulation 60(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit.
Regulation 60 Notice response	06/11/15	Response received from the Operator.
Job Aid – PP-HES-JBA-0004	15/12/15	Supporting documentation
Variation determined EPR/YP3930EX/V002	23/12/15	Varied permit issued.
Variation determined EPR/YP3930EX/V003	09/12/16	NRW led variation to add hazardous waste storage to the permit.

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

Permit number
EPR/YP3930EX

issued to:
Valero Energy Limited

whose registered office is

**11 Old Jewry
7th Floor
London
EC2R 8DU**


company registration number **8566216**

to operate a regulated facility at

**Pembroke Refinery
Pembroke
Pembrokeshire
SA71 5SJ**

to the extent set out in the schedules.

The notice shall take effect from 9 December 2016

	9 December 2016
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Victoria Seller
Authorised on behalf of Natural Resources Wales

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

The following conditions are amended as detailed, following an NRW initiated variation
Table S1.1 activities table has been amended to include a newly added Directly Associated Activity (DAA) for storage of Hazardous Waste

Table S1.1 activities

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
S1.1 A(1) (a)	Boiler plant	Refinery fuel oil storage and supply, boilers and abatement plant including: <ul style="list-style-type: none"> (i) 1 x 63.9 MW(th) boiler [designated B1] (ii) 2 x 63.8 MW(th) boilers [B2, B3] (iii) 1 x 78.9 MW(th) boiler [B4] (iv) 3 x 62.7 MW(th) boiler [B5, B6, B7] (v) 1 x 24.9 MW(th) boiler [B8] (vi) 1 x 74 MW MW(th) boiler [B9]
S1.2 A1 (g)	Refining mineral oil – primary operations	From feed to oil refining unit to use, intermediate or product storage, or export including each of the following units: <ul style="list-style-type: none"> (i) Vacuum distillation unit (typical throughput capacity – 640 m³/hr) and 2 x 47.5MW(th) heaters [H1, H2] (ii) Visbreaker unit (typical throughput capacity - 170 m³/hr) and 32.3MW(th) heater [H3] (iii) Fluidised catalytic cracker (typical throughput capacity - 625 m³/hr) and 31.1MW (th) heater [H4] and 318 MW (th) Regenerator [H5]. (iv) Kerosene Merox unit (typical throughput capacity - 223 m³/hr) (v) Hydro treater HTU-1 (typical throughput capacity - 275m³/hr) and 3 heaters (16.9MW(th) [H6], 14.2MW(th) [H7]and 6.5(th) [H8]) (vi) Hydro treater HTU-2 (typical throughput capacity - 220m³/hr)and 2 heaters (10.5MW(th) [H9] and 4.2MW(th) [H10]) (vii) Isomerisation unit (typical throughput capacity – 110m³/hr) (viii) LPG recovery unit (typical throughput capacity – 69,277 sm³/hr) (ix) Unifiner unit (typical throughput capacity - 340m³/hr) and 3 heaters (11MW(th) [H11], 9.6MW(th) [H12] and 7.3MW(th) [H13]) (x) Hydrogen recovery unit (typical throughput capacity - 18,645 sm³/hr) (xi) Platformer unit (typical throughput capacity - 255m³/hr) and 4 heaters (37.4MW(th) [H14], 30.4MW(th) [H15], 18.1MW(th) [H16] and 15.3MW(th) [H17]) (xii) FCC Merox unit (typical throughput capacity - 220m³/hr) (xiii) Alkylation unit (typical throughput 250m³/hr production of alkylate) and 2 heaters (28.8MW (th) [H18], and 22.1MW (th) [H19]. (xiv) Butamer unit (typical throughput capacity - 135m³/hr) and 1.75MW (th) heater [H20]. (xv) Ultra-low sulphur gasoline (ULSG) unit (nominal throughput capacity - 328 m³/hr) and 33.4MW (th) heater [H24].

Table S1.1 activities

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
S1.2 A1 (g)	Refining mineral oil – secondary operations – oil movements and blending	From receipt of feed, through blending (where necessary) to feed, intermediate and product storage including: liquefied petroleum gases, white oils, gas oils/ black oils, Crude oil/ slops. Road and ship loading and associated vapour recovery units.
S1.2 A1 (h)	Handling and processing crude oil	From receipt of crude to operation of crude distillation unit including: (i) jetty operations (ii) Crude distillation unit (typical throughput capacity 13,360,300 m ³ /year) and 3 crude heaters (48.6MW(th) [H21], 52.7MW(th) [H22] and 58.5MW(th) [H23]) Crude storage (storage capacity – 538,625 m ³)
S1.2 A(1) (k)	Odourising LPG (or natural gas)	From feed to unit to discharge for storage or export
S4.2 A(1) (a)(v)	Sulphur recovery and production	Removal of sulphur from aqueous waste stream by use of : (i) amine recovery unit (nominal throughput capacity – 185 m ³ /hr/train; 2 trains) (ii) FCCU sour water stripper (nominal throughput capacity – 32 m ³ /hr) (iii) CDU waste water stripper (nominal throughput capacity – 30 m ³ /hr) (iv) VDU waste water stripper (nominal throughput capacity – 55 m ³ /hr) (v) SRU 1 (nominal throughput capacity - 80 tonnes of sulphur/day). (vi) SRU 2 (nominal throughput capacity - 80 tonnes of sulphur/day). (vii) tail-gas incinerator (viii) sulphur storage prior to export (storage capacity – 2pits of 1,400 tonnes each)
S5.3 A1 (a)	Disposal of hazardous waste (other than by incineration or landfill) in a facility with a capacity of more than 10 tonnes per day.	From receipt of ballast water, through treatment (oil recovery operations) to disposal of treated water and solid waste.
S5.3 A1 (c) (i)	Disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by biological treatment	Removal of oil and other chemicals from process water by action of aerobic bacteria within bio-cell.
S5.3 A1 (c) (ii)	Disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by physico-chemical treatment.	From formation of waste water stream, discharge into site drainage systems to discharge of effluents to Milford Haven waterway including interceptors, DAF units and clarifiers.

Directly Associated Activity		
Flaring of gases	Burning of sour and sweet gases at flares.	Hydrocarbon gas recovery compressor, flare headers, knock-out pots and flare stacks and any ancillary equipment.
Cooling water systems	Systems used for cooling.	All cooling water systems including storage, pipelines and equipment, to discharge to ETP.
Lagoons	The holding or temporary storage of water, effluents or oil-based liquids for settling (sedimentation) or other purposes	The feed point to the lagoon(s), the lagoon(s) and its drainage point.
Oxygen or nitrogen generation	Air separation unit	Air separation plant to pipeline(s) delivering nitrogen to process plants
Surface water drainage	Collection and handling of surface waters within installation	Handling and storage of site drainage until discharge to the site waste water treatment system or to discharge off-site.
Water treatment	All water treatment activities	From receipt of raw materials to dispatch to effluents to sewer or site waste water treatment system.
Storage of Hazardous Waste	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	The waste shall only be stored within designated area(s) agreed in advance in writing with Natural Resources Wales. This activity is only permitted for storage of liquid oil based hazardous wastes. All waste European Waste Classification Codes to be accepted at the site must be agreed in writing in advance. Any agreement is time limited for a period of 28 days, after which a new agreement must be sought if further waste is to be accepted.