Notice: Variation of Permit

This permit has been varied by the Scottish Environment Protection Agency (SEPA) in exercise of its powers under Regulation 46 of the Pollution Prevention and Control (Scotland) Regulations 2012 ("the Regulations"). The terms used in this notice, unless otherwise defined, have the same meaning as in the Regulations.

Permit Number:	PPC/A/1013495
Operator:	Shell U.K. Limited Company Registration Number – 00140141 Registered Address- Shell Centre, York Road, London, SE1 7NA.
Variation Number:	VN06
Effective Date of Variation:	17 December 2021
Details of Variation:	The permit is varied as specified in the Schedule(s) attached.

Schedule

The permit has been varied as follows:

1. In Schedule 2, Table 2.1 - Reporting and Notification Requirements, a new row has been added, as follows:

Table 2.1 - Reporting and Notification Requirements

Summary of Information to be Reported or Notified	Condition	Date/Within period/ Frequency to be Reported	Date First Report Due
Best Available Technique for automatically optimising steam control report.	4.3.17	Single Report	30 Sep 2023

2. In Schedule 4, Condition 4.3.11 is deleted and a new Condition 4.3.11 is inserted as follows:

4.3.11 From 30 June 2023 the Operator shall continuously monitor and record:

i. the gas flow from NGL to the ground flares A7005 and B7005;

3. In Schedule 4, Condition 4.3.12 is deleted and a new Condition 4.3.12 is inserted as follows:

4.3.12 From 30 June 2022 the NGL No. 1 HP Elevated flare tip (emission point A04) shall:

i. operate using a low sound flare burner (tip) designed with internal steam tubes or an equivalent design which will deliver the same performance for sound reduction;
ii. have an acoustic insulation muffler installed around the steam injectors; and
iii. have a smokeless capacity of 10% as a minimum.

4. In Schedule 4, new Conditions 4.3.16 and 4.3.17 are inserted as follows:

4.3.16 From 31 December 2023 the Operator shall continuously monitor and record:

i. the gas flow to the NGL elevated flares (emission points A04 and A05); and

ii. the composition of flare gas and the steam flow rates to the NGL elevated flares (emission points A04 and A05).

4.3.17 By 30 September 2023, the Operator shall undertake and report on an evaluation of the Best Available Technique for automatically optimising steam control to prevent smoke during flaring events on the NGL elevated flares (emission points A04 and A05). The evaluation shall assess the effectiveness of an infrared technique to optimise steam injection rates for the gases being flared to prevent smoke compared to the conventional technique of controlling the ratio of flare gas to steam by continuous monitoring of gas flow and composition. The report submitted to SEPA shall as a minimum include:

(a) Details of the trial to assess the effectiveness of the infrared technique;
(b) The steam to hydrocarbon gas ratios and steam rates in tonnes per hour as set by the flare tip manufacturer for each of the design flaring scenarios;
(c) The effectiveness of the infrared technique during rainy or foggy conditions compared to the conventional technique;
(d) The effectiveness of the infrared technique over the range of gas compositions at the Permitted Installation.
(e) The effectiveness of the infrared technique for the flaring scenarios at the Permitted Installation;
(f) The conclusion of the evaluation of BAT with a clear demonstration which technique is most effective in achieving a high general level of protection of the environment as a whole including the justification that the preferred technique represents BAT.