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## RESPONSE TO INFORMATION REQUEST

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<b>Project</b>	Amazon Data Services Ireland Limited, Grange Castle South Business Park, Baldonnell Road, Dublin 22, D22 E7C9. Reg. No.: P1170-01
<b>Subject</b>	Regulation 10(2)(b)(ii) Response
<b>Date</b>	17 November 2022
<b>Ref.</b>	JG/217501.0178TR01

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### 1.0 INTRODUCTION

This document sets out the response to the additional information request under Regulation 10(2)(b)(ii) received 27<sup>th</sup> October 2022 in respect of the Industrial Emissions licence application (Reg. No.: P1170-01) from Amazon Data Services Ireland Limited for an installation located at Amazon Data Services Ireland Limited, Grange Castle South Business Park, Baldonnell Road, Dublin 22, D22 E7C9.

#### **Request - Planning Document**

1. Submit the Planner's Report associated with the planning ref. SD20A/0121

#### ***Response:***

*The Planner's Report associated with the planning ref. SD20A/0121 was submitted to the Agency on 2 November 2022.*

#### **Request - Air Dispersion Modelling Report**

2. Revise the Air Dispersion Modelling to include the 3 no. 3 MWth diesel powered back-up generators.

#### ***Response:***

*The Air Dispersion Modelling (Attachment-7-1-3-2-Air Emissions Impact Assessment dated 15 November 2022) has been revised to include the 3 no. 2.19 MWth diesel-powered back-up generators.*

*The Application stated that these 3 no generators had a thermal input of 3.03 MWth, on review these smaller emergency generators are only 2.19 MWth.*

**Request - Sewer Emissions**

3. It is noted in the application that the proposed monitoring locations for the emissions to sewer are downstream of the foul waste stream mixing with the trade effluent. Please identify a suitable location (SE-1 and SE-2) to monitor the trade effluent as defined in the Water Services Act, 2007.

***Response:***

Indicative monitoring locations on the foul sewer that would monitor the trade effluent only for Building A (SE1-1 and SE1-2) and Buildings B (SE1-3) have been identified on the included revised drawing (A093-CSE-XX-XX-DR-C-1201 - Foul Water Plan). The exact location of this monitoring will be agreed with the Agency once installed.

Indicative monitoring locations on the foul sewer that would monitor the trade effluent only for Building C (SE2-1 and SE2-2) have not been identified at this stage as the detailed design of these buildings has not been completed. The exact location of this monitoring will be agreed with the Agency once installed.

A revised Attachment-7-3-1-Emissions-to-Sewer has been provided with this additional information response.

**Request - Evaporative Cooling System**

4. Provide details on how the public water supply is treated onsite prior to use as an 'evaporative cooling water'.

***Response:***

*Mains water is used on site for both domestic purposes (offices and kitchens) and for data hall cooling at ambient temperatures above a set point. No treatment chemicals or softeners are added to the cooling water. Prior to the cooling process water is sanitised using ultraviolet disinfection. When water is used for cooling it is recirculated in a closed loop system. Cooling water discharges typically have conductivity values between 1,200-1,500uS/cm and is discharged at ambient temperature. When a conductivity setpoint of 1,500uS/cm is reached cooling water is automatically discharged.*

*See the below process water flow diagram Figure 1.1*

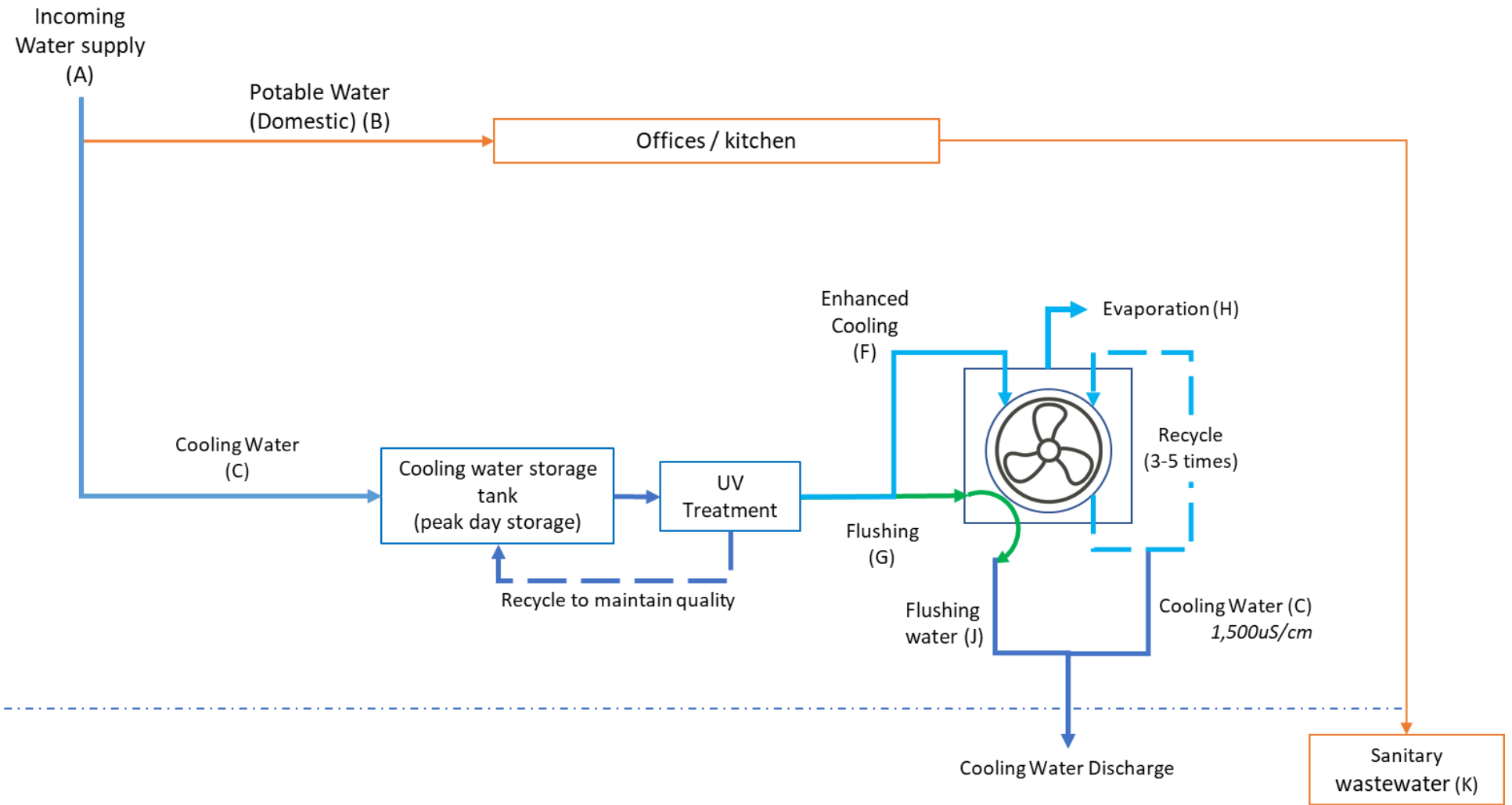


Figure 1.1 Water Use

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### **Request - Evaporative Cooling System**

5. During the winter months it is noted that the evaporative cooling system is drained down every 7-days to prevent legionella growth. Please confirm if the drain down during the winter months will be discharged to sewer or otherwise?

#### **Response:**

*The anti-legionella flush cycle drains the supply pipework of stagnant water when the evaporative cooling system has not been enabled for 7 Days. Once activated, the cycle opens the fill and drain valves simultaneously for 3 minutes. The water flushes through air handling units and to the cooling system drain ultimately discharging to the foul sewer. The system is gravity drained to ensure no pockets of water remain within the system. See Figure 1 below which details the flushing process.*

*Once all phases of a data centre building have been fully constructed, the data centre cooling system will be winterised. This means that the entire cooling water system will be drained and will remain dry during the winter months when evaporative cooling is not required. The cooling water storage tanks will discharge to the surface water drain.*

### **Request - Prevent of Accidents**

6. Provide the SOP for the diesel unloading operation at the installation.

#### **Response:**

*The Standard Operating Procedure (SOP) 'Fuel intake at main Storage Tank' for the diesel unloading operation at the installation has been provided with this information response.*

### **Request - EIAR**

7. Provide a list of the experts who contributed to the preparation of the EIAR, identifying for each expert:
- (i) The part or parts of the report which the expert is responsible for or to which the expert contributed;
  - (ii) The expert's competence and experience included relevant qualification(s), if any, in relation to such parts; and
  - (iii) Such additional information in relation to his or her expertise that demonstrate the expert's competence in the preparation of the report and ensures its completeness and quality.

#### **Response:**

*The list of the experts who contributed to the preparation of the EIAR was submitted to the Agency on 2 November 2022.*