

Air Release Points Base Option
Clear All Data

Go To: Air Release Points

Air Release Points

Please define your Release Points for Releases to Air

Are there any Air emissions? Yes Click the Add button below

Number	Description	Location or Grid Reference	Activity or Activities	Effective Height metres	Efflux Velocity m/s	Total Flow m3/hr
e.g. A1		North stack		150	25	5,000
1	20	boiler a	gas steam boiler	1	1.46	3154.6
2	21	boiler b	gas steam boiler	1	1.46	3154.6
3	22	boiler c	gas steam boiler	1	1.46	3154.6

Release Points:

Add
Delete
Copy

Comments:

Air Emissions Inventory Base Option, Release Point: 1 '20' Clear All Data

<< Back Next >> Go To: Air Emissions Inventory Release Point 1

Air Emissions Inventory

Please list all Substances released to Air for each Release Point identified in the previous page.

Number	Substance	Meas'ment Method	Operating Mode (% of Year)	Data relating to Long Term effects			Data relating to Short Term effects			Annual Rate tonne/yr	ELV Conc. mg/m3
				Conc.	Release Rate	Meas'ment Basis	Conc.	Release Rate	Meas'ment Basis		
				mg/m3	g/s		mg/m3	g/s			
e.g.	sulphur dioxide	Estimated*	70% load	1510	3000	annual avg	1510	3000	hourly avg	55,000	2000
1	Carbon monoxide	Estimate	20.7%	9.6	0.008425	annual avg	9.6	0.008425	hourly max	0.0549	
2	Nitrogen Dioxide	Estimate	20.7%	13.5	0.011795	annual avg	6.7	0.005897	hourly max	0.0768	
3	Carbon dioxide	Estimate	20.7%	194123.0	#####	annual avg	194123.0	#####	hourly max	1110.4417	

Measurement method: * provide detail in comments box

Substances:

Add Delete Copy

Comments:

Air Emissions Inventory Base Option, Release Point: 2 '21'

Go To: Air Emissions Inventory Release Point 2 Clear All Data

Air Emissions Inventory

Please list all Substances released to Air for each Release Point identified in the previous page.

Number	Substance	Meas'tment Method	Operating Mode (% of Year)	Data relating to Long Term effects			Data relating to Short Term effects			Annual Rate tonne/yr	ELV Conc. mg/m3
				Conc.	Release Rate	Meas'tment Basis	Conc.	Release Rate	Meas'tment Basis		
				mg/m3	g/s		mg/m3	g/s			
e.g.	sulphur dioxide	Estimated*	70% load	1510	3000	annual avg	1510	3000	hourly avg	55,000	2000
1	Carbon monoxide	Estimated	20.7%	9.6	0.008412	annual gas u	9.6	0.008412	hourly max	0.0549	
2	Nitrogen Dioxide	Estimated	20.7%	13.5	0.011795	annual gas u	6.7	0.005897	hourly max	0.0770	
3	Carbon dioxide	Estimated	20.7%	194123.0	#####	annual gas u	194123.0	#####	hourly max	1110.4417	

Measurement method: * provide detail in comments box

Substances: Add Delete Copy

Comments:

Air Emissions Inventory Base Option, Release Point: 3 '22'

Go To: Air Emissions Inventory Release Point 3 Clear All Data

Air Emissions Inventory

Please list all Substances released to Air for each Release Point identified in the previous page.

Number	Substance	Meas'tment Method	Operating Mode (% of Year)	Data relating to Long Term effects			Data relating to Short Term effects			Annual Rate tonne/yr	ELV Conc. mg/m3
				Conc.	Release Rate	Meas'tment Basis	Conc.	Release Rate	Meas'tment Basis		
				mg/m3	g/s		mg/m3	g/s			
e.g.	sulphur dioxide	Estimated*	70% load	1510	3000	annual avg	1510	3000	hourly avg	55,000	2000
1	Carbon monoxide	Estimated	20.7%	9.6	0.008412	annual usag	9.6	0.008412	hourly max		0.0549
2	Nitrogen Dioxide	Estimated	20.7%	13.5	0.011795	annual usag	6.7	0.005897	hourly max		0.0770
3	Carbon dioxide	Estimated	20.7%	194123.0	#####	annual usag	194123.0	#####	hourly max	1110.4417	

Measurement method: * provide detail in comments box

Substances:

Comments:

Air Impacts Base Option
Clear All Data

Go To: Air Impacts

Air Impacts

Calculate Process Contributions of Emissions to Air

This table estimates the Process Contribution (PC), calculated as the maximum ground level concentration for each emission listed in the inventory, according to the release point parameters input earlier. If you have more accurate data obtained through dispersion modelling, this may be entered as indicated and will be used instead of the estimated PC.

Number	Substance	Long Term			Short Term		
		EAL	PC	Modelled PC	EAL	PC	Modelled PC
		µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
1	Carbon monoxide		0.713		10000	90.1	
2	Nitrogen Dioxide	40	0.999		200	63.2	

Note that the Process Contribution shown for each substance is the sum of the individual process contributions of each point from which the substance is emitted. Process Contributions obtained from modelling data should incorporate all relevant release points and flow conditions.

* State the location of any detailed air dispersion modelling and also the main assumptions: Comments:

Air Impact Screening Base Option

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Air Impact Screening Stage One

Screen out Insignificant Emissions to Air

This page displays the Process Contribution as a proportion of the EAL or EQS. Emissions with PCs that are less than the criteria indicated may be screened from further assessment as they are likely to have an insignificant impact.

Number	Substance	Long Term EAL		Long Term			Short Term		
		µg/m3	µg/m3	PC	% PC of EAL	> 1% of EAL?	PC	% PC of EAL	> 10% of EAL?
1	Carbon monoxide	-	10,000	0.713	-		90.1	0.901	No
2	Nitrogen Dioxide	40.0	200	0.999	2.50	Yes	63.2	31.6	Yes

Air Impact Modelling Base Option

Go To: Air Impact Modelling

Air Impact Modelling Stage Two Screening

Identify need for Detailed Modelling of Emissions to Air

This page displays the Process Contributions in relation to the background pollutant levels and the EAL or EQS. You should use this information to decide whether to conduct detailed modelling. Note that releases that are insignificant are not shown as they are screened from further assessment. Also complete this page if you have already done detailed modelling.

Number	Substance	Air Bkgnd Conc. µg/m ³	PC µg/m ³	Long Term			Short Term			
				% PC of headroom (EAL - Bkgnd)	PEC mg/m ³	% PEC of EAL	% PEC of EAL >=70?	PC µg/m ³	% PC of headroom (EAL - Bkgnd)	% PC of headroom >=20?
2	Nitrogen Dioxide	6.68552	0.999	3.00	7.70	19.3	No	63.2	33.9	Yes

Background taken from grid reference 341 500 159500 DEFRA UK AIR information resource 2018

Air Impact Modelling Assessment		Clear All Data
Air Impact Modelling Assessment		
See guidelines in H1 Annex F section entitled "Decide if you need detailed air modelling."		
Describe here the justification for whether detailed modelling is, or is not required for any of the releases. Refer to the guidelines in H1 Annex F	Impact on local air quality limited to Nitrogen Dioxide, using gas as primary energy source for boilers, PC impact short term relates mainly to stack height. Modelling to be included as part of proposed stack extensions	
Describe source of background information:		
Document Reference of detailed modelling work:		



