

RELEASES TO AIR
QUARTERLY RETURN
MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS
OPERATING MODE:

Operator: Dow Silicones UK Ltd Form: IED/LCPBREF CON2 (Gas Turbines)
Location: Barry Cogeneration Plant Vers/date: V3.0 Mar 2021
Permit/Variation Number: EPR/JP3632ZH/V004

Year: 2025	A1 / LCP 60 - ALL DATA					
	NOx (mg/m3)			CO (mg/m3)		
Month	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean
January	22.09	49.42		16.4	86.1	
February	43.31	53.21		7.	26.1	
March	32.76	54.43		8.4	77.6	
April	36.16	49.53		0.9	3.4	
May	36.02	74.47		4.7	23.	
June	-	0.		-	0.	
July						
August						
September						
October						
November						
December						
Monthly ELV & Daily ELVs: (Period 1) (f)	75.	80.		80.	80.	
Monthly ELV & Daily ELVs: (Period 2) (f)						
	Annual Mean (d)	Annual ELV		Annual Mean (d)	Annual ELV	
Annual Mean & ELV (g)		55.			30.	
	Annual Percentile (d)	Annual ELV		Annual Percentile (d)	Annual ELV	
Annual 95th Percentile (h)		125.			80.	

NOTES:

(a) All concentration data, at 15% O2, dry, 273K, 101.3 kPa, are based on validated hourly mean concentrations, excluding start-up and shut-down, periods of Malfunction or Breakdown of abatement equipment or Black Start operation.

(b) Daily, Monthly and Annual means, and Annual percentile concentrations, are calculated from the validated hourly means defined in (a). CCGT qualifying periods for Hourly, Daily, Monthly and Annual averages are 40m, 6h, 72h or 3d, and 500h, respectively. OCGT qualifying periods are the same apart from the Hourly qualifying period which is reduced to 20m of normal operation. Annual averages, for plants with an Annual ELV, and Annual percentile concentrations, are submitted with the final return (Quarter 4).

(c) Extend report to cover the required number of LCP on each site and repeat report for each separately regulated Operating Mode as required, e.g., Combined Cycle, Open Cycle, Supplementary firing, Auxiliary firing.

(d) Averages determined at loads in the range E-DLN < Load ≤ 100% ISO base load and above (where E-DLN is the Effective-DLN load point).

(e) Averages determined in the range MSUL* < Load = 100% ISO base load and above. (* For a 3 parameter approach, from the point of Start-Up to the point of Shut-down).

(f) When there is an in-year change of ELV, record both ELVs in consecutive rows. For example, compliance with the LCP BREF begins in August 2021 therefore replace 'Period 1' with 'Jan - Jul' and 'Period 2' with 'Aug - Dec'. Otherwise, replace 'Period 1' with 'Jan - Dec' and delete or blank out the row containing 'Period 2'.

(g) For plants with an Annual ELV, for each pollutant, report the Annual mean in the first column and the Annual ELV in the second column. Annual ELVs are not applicable, and are not entered on the form, when the plant operates less than 1500 hours within the reporting year or for plant with a 1500 h/yr five-year rolling average derogation. Otherwise, reporting of the Annual mean begins in 2021 but compliance assessment with the Annual ELV begins in 2022 (incorporating plant operation from 1 January 2022); the Annual ELV is therefore not entered on the form for 2021 reporting.

(h) For each pollutant, report the Annual 95th percentile of hourly means in the first column and the Annual 95th percentile ELV in the second column. However, if there is an in-year reduction of the percentile ELV then it is not mandatory to enter the ELV as compliance assessment will commence in the following year.

Signed on behalf of the Operator by:
28th July 2025

Date of return:

No confidence adjustment

RELEASES TO AIR
QUARTERLY RETURN
MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS
OPERATING MODE:

Operator: Dow Silicones UK Ltd Form: IED/LCPBREF CON2
Location: Barry Cogeneration Plant Vers/date: V3.0 Mar 2021
Permit/Variation Number: EPR/JP3632ZH/V004

Year: 2025	A2 / LCP 60					
	NOx (mg/m3)			CO (mg/m3)		
Month	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean
January	N/A	34.43		N/A	2.4	
February	-	0.		-	0.	
March	N/A	0.		N/A	0.	
April	N/A	0.		N/A	0.	
May	N/A	56.3		N/A	274.4	
June	55.25	57.52		3.5	11.1	
July						
August						
September						
October						
November						
December						
Monthly ELV & Daily ELVs: (Period 1) (f)	100.	110.		100.	110.	
Monthly ELV & Daily ELVs: (Period 2) (f)						
	Annual Mean (d)	Annual ELV		Annual Mean (d)	Annual ELV	
Annual Mean & ELV (g)		100.			40.	
	Annual Percentile (d)	Annual ELV		Annual Percentile (d)	Annual ELV	
Annual 95th Percentile (h)		200.			200.	

- NOTES:
- (a) All concentration data, at 3% O2, dry, 273K, 101.3 kPa, are based on validated hourly mean concentrations, excluding start-up and shut-down, periods of Malfunction or Breakdown of abatement equipment or Black Start operation.
- (b) Daily, Monthly and Annual means, and Annual percentile concentrations, are calculated from the validated hourly means defined in (a). CCGT qualifying periods for Hourly, Daily, Monthly and Annual averages are 40m, 6h, 72h or 3d, and 500h, respectively. OCGT qualifying periods are the same apart from the Hourly qualifying period which is reduced to 20m of normal operation. Annual averages, for plants with an Annual ELV, and Annual percentile concentrations, are submitted with the final return (Quarter 4).
- (c) Extend report to cover the required number of LCP on each site and repeat report for each separately regulated Operating Mode as required, e.g., Combined Cycle, Open Cycle, Supplementary firing, Auxiliary firing.
- (d) Averages determined at loads in the range E-DLN < Load ≤ 100% ISO base load and above (where E-DLN is the Effective-DLN load point).
- (e) Averages determined in the range MSUL* < Load = 100% ISO base load and above. (* For a 3 parameter approach, from the point of Start-Up to the point of Shut-down).
- (f) When there is an in-year change of ELV, record both ELVs in consecutive rows. For example, compliance with the LCP BREF begins in August 2021 therefore replace 'Period 1' with 'Jan - Jul' and 'Period 2' with 'Aug - Dec'. Otherwise, replace 'Period 1' with 'Jan - Dec' and delete or blank out the row containing 'Period 2'.
- (g) For plants with an Annual ELV, for each pollutant, report the Annual mean in the first column and the Annual ELV in the second column. Annual ELVs are not applicable, and are not entered on the form, when the plant operates less than 1500 hours within the reporting year or for plant with a 1500 h/yr five-year rolling average derogation. Otherwise, reporting of the Annual mean begins in 2021 but compliance assessment with the Annual ELV begins in 2022 (incorporating plant operation from 1 January 2022); the Annual ELV is therefore not entered on the form for 2021 reporting.
- (h) For each pollutant, report the Annual 95th percentile of hourly means in the first column and the Annual 95th percentile ELV in the second column. However, if there is an in-year reduction of the percentile ELV then it is not mandatory to enter the ELV as compliance assessment will commence in the following year.

Signed on behalf of the Operator by:

[Redacted Signature]

28th July 2025

RELEASES TO AIR
QUARTERLY RETURN
MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS
OPERATING MODE:

Operator: Dow Silicones UK Ltd Form: IED/LCPBREF CON2 (Gas Turbines)
Location: Barry Cogeneration Plant Vers/date: V3.0 Mar 2021
Permit/Variation Number: EPR/JP3632ZH/V004

Year: 2025	A3 / LCP 60 - TEG MODE					
	NOx (mg/m3)			CO (mg/m3)		
Month	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean
January	25.17	24.45		8.4	16.7	
February	23.14	24.19		10.6	28.76	
March	25.68	34.14		5.05	20.42	
April	33.29	38.33		2.62	6.89	
May	33.79	36.13		5.38	19.98	
June	32.7	36.2		1.08	3.68	
July						
August						
September						
October						
November						
December						
Monthly ELV & Daily ELVs: (Period 1) (f)	75.	80.		80.	80.	
Monthly ELV & Daily ELVs: (Period 2) (f)						
	Annual Mean (d)	Annual ELV		Annual Mean (d)	Annual ELV	
Annual Mean & ELV (g)						
	Annual Percentile (d)	Annual ELV		Annual Percentile (d)	Annual ELV	
Annual 95th Percentile (h)						

NOTES:

(a) All concentration data, at 15% O2, dry, 273K, 101.3 kPa, are based on validated hourly mean concentrations, excluding start-up and shut-down, periods of Malfunction or Breakdown of abatement equipment or Black Start operation.

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(c) Extend report to cover the required number of LCP on each site and repeat report for each separately regulated Operating Mode as required, e.g., Combined Cycle, Open Cycle, Supplementary firing, Auxiliary firing.

(d) Averages determined at loads in the range E-DLN < Load ≤ 100% ISO base load and above (where E-DLN is the Effective-DLN load point).

(e) Averages determined in the range MSUL* < Load = 100% ISO base load and above. (* For a 3 parameter approach, from the point of Start-Up to the point of Shut-down).

(f) When there is an in-year change of ELV, record both ELVs in consecutive rows. For example, compliance with the LCP BREF begins in August 2021 therefore replace 'Period 1' with 'Jan - Jul' and 'Period 2' with 'Aug - Dec'. Otherwise, replace 'Period 1' with 'Jan - Dec' and delete or blank out the row containing 'Period 2'.

(g) For plants with an Annual ELV, for each pollutant, report the Annual mean in the first column and the Annual ELV in the second column. Annual ELVs are not applicable, and are not entered on the form, when the plant operates less than 1500 hours within the reporting year or for plant with a 1500 h/yr five-year rolling average derogation. Otherwise, reporting of the Annual mean begins in 2021 but compliance assessment with the Annual ELV begins in 2022 (incorporating plant operation from 1 January 2022); the Annual ELV is therefore not entered on the form for 2021 reporting.

(h) For each pollutant, report the Annual 95th percentile of hourly means in the first column and the Annual 95th percentile ELV in the second column. However, if there is an in-year reduction of the percentile ELV then it is not mandatory to enter the ELV as compliance assessment will commence in the following year.

Signed on behalf of the Operator by:

28th July 2025

Date of return:

No confidence adjustment

RELEASES TO AIR
QUARTERLY RETURN
MONTHLY MEAN, MAXIMUM DAILY MEAN AND ANNUAL PERCENTILE CONCENTRATIONS
OPERATING MODE:

Operator: Dow Silicones UK Ltd Form: IED/LCPBREF CON2 (Gas Turbines)
Location: Barry Cogeneration Plant Vers/date: V3.0 Mar 2021
Permit/Variation Number: EPR/JP3632ZH/V004

Year: 2025	A3 / LCP 60 - FD MODE					
	NOx (mg/m3)			CO (mg/m3)		
Month	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean	Monthly Mean	Max Daily Mean	Part Load Max Daily Mean
January	47.27	50.39		0.04	0.29	
February	48.56	51.11		0.	0.02	
March	62.33	73.56		0.	0.	
April	79.65	80.31		0.	0.	
May	77.64	76.52		0.02	0.	
June	76.73	84.31		0.24	2.49	
July						
August						
September						
October						
November						
December						
Monthly ELV & Daily ELVs: (Period 1) (f)	100.	110.		100.	110.	
Monthly ELV & Daily ELVs: (Period 2) (f)						
	Annual Mean (d)	Annual ELV		Annual Mean (d)	Annual ELV	
Annual Mean & ELV (g)						
	Annual Percentile (d)	Annual ELV		Annual Percentile (d)	Annual ELV	
Annual 95th Percentile (h)						

NOTES:

(a) All concentration data, at 15% O2, dry, 273K, 101.3 kPa, are based on validated hourly mean concentrations, excluding start-up and shut-down, periods of Malfunction or Breakdown of abatement equipment or Black Start operation.

(b) Daily, Monthly and Annual means, and Annual percentile concentrations, are calculated from the validated hourly means defined in (a). CCGT qualifying periods for Hourly, Daily, Monthly and Annual averages are 40m, 6h, 72h or 3d, and 500h, respectively. OCGT qualifying periods are the same apart from the Hourly qualifying period which is reduced to 20m of normal operation. Annual averages, for plants with an Annual ELV, and Annual percentile concentrations, are submitted with the final return (Quarter 4).

(c) Extend report to cover the required number of LCP on each site and repeat report for each separately regulated Operating Mode as required, e.g., Combined Cycle, Open Cycle, Supplementary firing, Auxiliary firing.

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(h) For each pollutant, report the Annual 95th percentile of hourly means in the first column and the Annual 95th percentile ELV in the second column. However, if there is an in-year reduction of the percentile ELV then it is not mandatory to enter the ELV as compliance assessment will commence in the following year.

Signed on behalf of the Operator by:

28th July 2025

Date of return:

No confidence adjustment

RELEASES TO AIR

QUARTERLY RETURN

2025

Q2

CUMULATIVE ROLLING MALFUNCTION AND BREAKDOWN HOURS (12 MONTH PERIOD)(a), (b)

OPERATING MODE:

Operator: DOW

Location: Barry Cogeneration Plant

Permit/Variation Number: EPR/JP3632ZH/V004

Form:

Version/date:

IED/LCPBREF BD1

V.3.1 31 Dec 2015

Year: 2023	A1 / LCP 60			
	NOx (mg/m3)		CO (mg/m3)	
Month	Malfunction (hours)	Breakdown (hours)	Malfunction (hours)	Breakdown (hours)
January	0.	0.	0.	0.
February	0.	0.	0.	0.
March	0.	0.	0.	0.
April	0.	0.	0.	0.
May	0.	0.	0.	0.
June	0.	0.	0.	0.
July	-	-	-	-
August	-	-	-	-
September	-	-	-	-
October	-	-	-	-
November	-	-	-	-
December	-	-	-	-
Annual total (hours)	-	-	-	-
Annual cap (hours)	120.	120.	120.	120.

NOTES:

- (a) Cumulative rolling malfunction and breakdown hours (12 month period) updated monthly
- (b) Data Acquisition and Handling Systems without the capability to report Black Start hours separately may incorporate Black Start hours on this form provided that a
- (c) Insert the relevant months for the preceding 12 month period, e.g., starting with March 2016
- (d) Gas turbines with CO abatement only (columns may be deleted for other plant types)
- (e) Plants with HCl abatement only (columns may be deleted for other plant types)

Signed on behalf of the Operator by:

[Redacted Signature]

, Environmental Specialist

Date of return:

28th July 2025

No confidence adjustment

RELEASES TO AIR

QUARTERLY RETURN

2025

Q2

CUMULATIVE ROLLING MALFUNCTION AND BREAKDOWN HOURS (12 MONTH PERIOD)(a), (b)

OPERATING MODE:

Operator: DOW

Location: Barry Cogeneration Plant

Permit/Variation Number: EPR/JP3632ZH/V004

Form:

Version/date:

IED/LCPBREF BD1

V.3.1 31 Dec 2015

Year: 2022	A2 / LCP 60			
	NOx (mg/m3)		CO (mg/m3)	
Month	Malfunction (hours)	Breakdown (hours)	Malfunction (hours)	Breakdown (hours)
January	0.	0.	0.	0.
February	0.	0.	0.	0.
March	0.	0.	0.	0.
April	0.	0.	0.	0.
May	0.	0.	0.	0.
June	0.	0.	0.	0.
July	-	-	-	-
August	-	-	-	-
September	-	-	-	-
October	-	-	-	-
November	-	-	-	-
December	-	-	-	-
Annual total (hours)	-	-	-	-
Annual cap (hours)	120.	120.	120.	120.

NOTES:

(a) Cumulative rolling malfunction and breakdown hours (12 month period) updated monthly

(b) Data Acquisition and Handling Systems without the capability to report Black Start hours separately may incorporate Black Start hours on this form provided that a

(c) Insert the relevant months for the preceding 12 month period, e.g., starting with March 2016

(d) Gas turbines with CO abatement only (columns may be deleted for other plant types)

(e) Plants with HCl abatement only (columns may be deleted for other plant types)

Signed on behalf of the Operator by:

[Redacted Signature]

Environmental Specialist

Date of return:

28th July 2025

No confidence adjustment

RELEASES TO AIR

QUARTERLY RETURN

2025

Q2

CUMULATIVE ROLLING MALFUNCTION AND BREAKDOWN HOURS (12 MONTH PERIOD)(a), (b)

OPERATING MODE:

Operator: DOW

Location: Barry Cogeneration Plant

Permit/Variation Number: EPR/JP3632ZH/V004

Form:

Version/date:

IED/LCPBREF BD1

V.3.1 31 Dec 2015

Year: 2022	A3 / LCP 60			
	NOx (mg/m3)		CO (mg/m3)	
Month	Malfunction (hours)	Breakdown (hours)	Malfunction (hours)	Breakdown (hours)
January	0.	0.	0.	0.
February	0.	0.	0.	0.
March	0.	0.	0.	0.
April	0.	0.	0.	0.
May	0.	0.	0.	0.
June	0.	0.	0.	0.
July	-	-	-	-
August	-	-	-	-
September	-	-	-	-
October	-	-	-	-
November	-	-	-	-
December	-	-	-	-
Annual total (hours)	-	-	-	-
Annual cap (hours)	120.	120.	120.	120.

NOTES:

(a) Cumulative rolling malfunction and breakdown hours (12 month period) updated monthly

(b) Data Acquisition and Handling Systems without the capability to report Black Start hours separately may incorporate Black Start hours on this form provided that a

(c) Insert the relevant months for the preceding 12 month period, e.g., starting with March 2016

(d) Gas turbines with CO abatement only (columns may be deleted for other plant types)

(e) Plants with HCl abatement only (columns may be deleted for other plant types)

Signed on behalf of the Operator by:

[Redacted Signature]

, Environmental Specialist

Date of return:

28th July 2025

No confidence adjustment

RELEASES TO AIR

RETURN OF DISCONTINUOUS MONITORING RESULTS

Operator: Dow Silicones UK Ltd
 Location: Barry Cogeneration Plant
 Permit/Variation Number: EPR/JP3632ZH/V004

Form: IED PM1
 Version: V.11 Mar 2016

Year: 2025	LCP 60 (A1 & A3 HR-001A & B)				
Six months to -30/6/25					
Measurement approach	NO _x	SO ₂	CO	Hg	Dust
Time					
Date					
Measurement 1 (mg/m ³) ^(b)					
Measurement 2 (mg/m ³) ^(b)					
Measurement 3 (mg/m ³) ^(b)					
Alternative approach ^(c)					
Method ^(d)		FS			DF
Calculation (mg/m ³)		0.24			0
Operational data ^(a)					
Load (%MCR)					
Fuel 1 Natural Gas (%)		100			100
Fuel 2 name (%)					
Fuel 3 name (%)					
Daily Emission Limit Value (mg/m ³)					

NOTES:

- (a) Operational data for the test period (measurement approach) or the six month period to date (Alternative approach)
- (b) Reference conditions for mg/m³ are 15% O₂ CCGT, 6% O₂ solid fuels, 3% O₂ for oil and gas, dry, 0°C, 101.325 kPa
- (c) Alternative approach to discontinuous monitoring by agreement with the Competent Authority
- (d) Use abbreviation: NF for agreed NO_x factor, FS for fuel sulphur content, CS for agreed CO factor, DF for agreed dust factor

Signed on behalf of the Operator by:  Environmental Specialist

Date of return: 28th July 2025 

RELEASES TO AIR

RETURN OF DISCONTINUOUS MONITORING RESULTS

Operator: Dow Silicones UK Ltd
 Location: Barry Cogeneration Plant
 Permit/Variation Number: EPR/JP3632ZH/V004

Form: IED PM1
 Version: V.11 Mar 2016

Year: 2025	LCP 60 (A2 FB-001)				
Six months to -30/6/25					
Measurement approach	NO _x	SO ₂	CO	Hg	Dust
Time					
Date					
Measurement 1 (mg/m ³) ^(b)					
Measurement 2 (mg/m ³) ^(b)					
Measurement 3 (mg/m ³) ^(b)					
Alternative approach ^(c)					
Method ^(d)		FS			DF
Calculation (mg/m ³)		0.72			0
Operational data ^(a)					
Load (%MCR)					
Fuel 1 Natural Gas (%)		100			100
Fuel 2 name (%)					
Fuel 3 name (%)					
Daily Emission Limit Value					
(mg/m ³)					

NOTES:

- (a) Operational data for the test period (measurement approach) or the six month period to date (Alternative approach)
- (b) Reference conditions for mg/m³ are 15% O₂ CCGT, 6% O₂ solid fuels, 3% O₂ for oil and gas, dry, 0°C, 101.325 kPa
- (c) Alternative approach to discontinuous monitoring by agreement with the Competent Authority
- (d) Use abbreviation: NF for agreed NO_x factor, FS for fuel sulphur content, CS for agreed CO factor, DF for agreed dust factor

Signed on behalf of the Operator by:  Environmental Specialist 

Date of return: 28th July 2025

RELEASES TO AIR

RETURN OF DISCONTINUOUS MONITORING RESULTS

Operator: Dow Silicones UK Ltd
 Location: Barry Cogeneration Plant
 Permit/Variation Number: EPR/JP3632ZH/V004

Form: IED PM1
 Version: V.11 Mar 2016

Year: 2025	LCP 60 (A4 FB-002A)				
Six months to -30/6/25					
Measurement approach	NO _x	SO ₂	CO	Hg	Dust
Time	12:00		12:00		
Date	16/05/2025		16/05/2025		
Measurement 1 (mg/m ³) ^(b)	97.5		1.7		
Measurement 2 (mg/m ³) ^(b)					
Measurement 3 (mg/m ³) ^(b)					
Alternative approach ^(c)					
Method ^(d)		FS			DF
Calculation (mg/m ³)		0.72			0
Operational data ^(a)					
Load (%MCR)					
Fuel 1 Natural Gas (%)	100	100	100		100
Fuel 2 name (%)					
Fuel 3 name (%)					
Daily Emission Limit Value					
(mg/m ³)	110	38.5	100		5.5

NOTES:

- (a) Operational data for the test period (measurement approach) or the six month period to date (Alternative approach)
- (b) Reference conditions for mg/m³ are 15% O₂ CCGT, 6% O₂ solid fuels, 3% O₂ for oil and gas, dry, 0°C, 101.325 kPa
- (c) Alternative approach to discontinuous monitoring by agreement with the Competent Authority
- (d) Use abbreviation: NF for agreed NO_x factor, FS for fuel sulphur content, CS for agreed CO factor, DF for agreed dust factor

Signed on behalf of the Operator by:  Environmental Specialist 

Date of return: 28th July 2025

RELEASES TO AIR

RETURN OF DISCONTINUOUS MONITORING RESULTS

Operator: Dow Silicones UK Ltd
 Location: Barry Cogeneration Plant
 Permit/Variation Number: EPR/JP3632ZH/V004

Form: IED PM1
 Version: V.11 Mar 2016

Year: 2025	LCP 60 (A5 FB-002B)				
Six months to -30/6/25					
Measurement approach	NO _x	SO ₂	CO	Hg	Dust
Time	10:15		10:15		
Date	16/05/2025		16/05/2025		
Measurement 1 (mg/m ³) ^(b)	95.1		2.2		
Measurement 2 (mg/m ³) ^(b)					
Measurement 3 (mg/m ³) ^(b)					
Alternative approach ^(c)					
Method ^(d)		FS			DF
Calculation (mg/m ³)		0.72			0
Operational data ^(a)					
Load (%MCR)					
Fuel 1 Natural Gas (%)	100	100	100		100
Fuel 2 name (%)					
Fuel 3 name (%)					
Daily Emission Limit Value					
(mg/m ³)	110	38.5	100		5.5

NOTES:

- (a) Operational data for the test period (measurement approach) or the six month period to date (Alternative approach)
- (b) Reference conditions for mg/m³ are 15% O₂ CCGT, 6% O₂ solid fuels, 3% O₂ for oil and gas, dry, 0°C, 101.325 kPa
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Signed on behalf of the Operator by: , Environmental Specialist 

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