

Appendix 3B

<u>Helicopter Information</u>	Unit	Remarks
Helicopter Model	Airbus H175	
Engine Type	Twin Engine Turboshaft	
No. of Engine	2	
Max. SHP of Engine	1776 SHP	
Fuel Sulphur Content by Weight	0.3 %	

<u>SO₂ Emission Rate for Idling Mode</u>	Unit	Remarks
Time in Mode (Idling)	300 s	
Estimated SHP	106.56 SHP	1
Fuel Flow per Engine	0.02351591 kg/s	2
SO ₂ Emission Rate	0.282190917 g/s	3
Averaged SO ₂ Emission Rate in an Hour	0.023516 g/s	4
Total Emission of Idling Mode	84.65727506 g	

<u>SO₂ Emission Rate for Hovering (Approach) and Touchdown Mode</u>	Unit	Remarks
Time in Mode (Hovering (Approach) + Touchdown)	8 s	
Estimated SHP	1776 SHP	1,5
Fuel Flow per Engine	0.105756051 kg/s	2
SO ₂ Emission Rate	1.269072615 g/s	3
Averaged SO ₂ Emission Rate in an Hour	0.002820 g/s	4
Total Emission of Hovering (Approach) + Touchdown	10.15258092 g	

<u>SO₂ Emission Rate for Hovering (Take Off) and Lift-Off Mode</u>	Unit	Remarks
Time in Mode (Hovering (Take Off) + Lift-Off)	8 s	
Estimated SHP	1776 SHP	1
Fuel Flow per Engine	0.105756051 kg/s	2
SO ₂ Emission Rate	1.269072615 g/s	3
Averaged SO ₂ Emission Rate in an Hour	0.002820 g/s	4
Total Emission of Hovering (Take Off) + Lift-Off	10.15258092 g	

<u>SO₂ Emission Rate for Take-off or Approach Mode along the Flight Path (SW1)</u>	Unit	Remarks
Time in Mode (Take-off/ Approach)	60 s	
Estimated SHP	1776 SHP	1,5
Fuel Flow per Engine	0.105756051 kg/s	2
SO ₂ Emission Rate	1.269072615 g/s	3
Averaged SO ₂ Emission Rate in an Hour	0.021151 g/s	4
Effective area of the line source	2320.71 m ²	6
Averaged SO ₂ Emission Rate in an Hour	9.11411E-06 g/s/m ²	
Total Emission of Take-off/ Approach	76.14435688 g	

<u>SO₂ Emission Rate for Take-off or Approach Mode along the Flight Path (SW2)</u>	Unit	Remarks
Time in Mode (Take-off/ Approach)	60 s	
Estimated SHP	1776 SHP	1,5
Fuel Flow per Engine	0.105756051 kg/s	2
SO ₂ Emission Rate	1.269072615 g/s	3
Averaged SO ₂ Emission Rate in an Hour	0.021151 g/s	4
Effective area of the line source	2204.86 m ²	6
Averaged SO ₂ Emission Rate in an Hour	9.59299E-06 g/s/m ²	
Total Emission of Take-off/ Approach	76.14435688 g	

