

Checklist for ambient air pollution forecast reports

Report's title:
Report's author:

Report version No.:
Report date:

Checklist filled in by:

Checklist date:

Section in VDI 3783 Part 14	Check item	N/A	Present/ plausible	Section/ page in the report
4.1	General information about the project and the objective of the pollution forecast			
4.1.1	Formal particulars listed		<input type="checkbox"/>	
4.1.2	Task definition and project description stated		<input type="checkbox"/>	
4.1.3	The assessment principles are stated.		<input type="checkbox"/>	
4.1.3	Where there is a reference to measurement as defined in 39. BImSchV: measurement site described	<input type="checkbox"/>	<input type="checkbox"/>	
4.1.4 to 4.1.7	The local conditions and investigation area are described.		<input type="checkbox"/>	
4.2	Description of sources and emissions			
4.2.1.1	All relevant basic details relating to the traffic infrastructure are stated.		<input type="checkbox"/>	
4.2.1.2	The source of the traffic data is stated.		<input type="checkbox"/>	
4.2.1.2	Reference year of the traffic data is stated.		<input type="checkbox"/>	
4.2.1.2	The traffic volume data are used comprehensibly (DTV variants).		<input type="checkbox"/>	
4.2.1.2	For temporally resolved data: The approach is described comprehensibly.	<input type="checkbox"/>	<input type="checkbox"/>	
4.2.1.3	The vehicle fleet population's composition (incl. cold start behaviour as necessary), incl. differentiation between e.g. the fleet population's composition across Germany and in the region, is described comprehensibly.		<input type="checkbox"/>	
4.2.1.4	The traffic situations used are identified.		<input type="checkbox"/>	
4.2.1.5	Emission factors applied comprehensibly (incl. cold start supplement)		<input type="checkbox"/>	
4.2.1.5	Temporal resolution (annual emissions or time-resolved emissions) chosen comprehensibly		<input type="checkbox"/>	
4.2.2	The assumptions for the reference and forecast years are stated.		<input type="checkbox"/>	
4.2.2	The emissions are displayed.		<input type="checkbox"/>	
4.2.2	Vehicle-induced turbulence taken into account	<input type="checkbox"/>	<input type="checkbox"/>	
4.2.2	For tunnel sections: The Tunnel-specific variables are documented.	<input type="checkbox"/>	<input type="checkbox"/>	
4.3	Building density			
4.3	The building density is described.	<input type="checkbox"/>	<input type="checkbox"/>	
4.4	Meteorological data			
4.4	The basic data relating to wind measurement are documented.	<input type="checkbox"/>	<input type="checkbox"/>	
4.4	A comprehensible choice is made between meteorological time series and frequency distribution.		<input type="checkbox"/>	
4.4	When using modelled data: Model type, name and underlying modelling parameters are stated.	<input type="checkbox"/>	<input type="checkbox"/>	
4.4	The spatial representativeness of the data is substantiated.		<input type="checkbox"/>	
4.4	The temporal representativeness of the data is substantiated.		<input type="checkbox"/>	
5	Procedure for air pollution forecasts			
5	The computational model is stated The model is described.	<input type="checkbox"/>	<input type="checkbox"/>	
5.1.1.1	For detailed modelling: The calculation area and the spatial resolution are chosen comprehensibly.	<input type="checkbox"/>	<input type="checkbox"/>	

Section in VDI 3783 Part 14	Check item	N/A	Present/plausible	Section/page in the report
5.1.1.2	For detailed modelling: The built-up density is taken into account comprehensibly and this is documented.	<input type="checkbox"/>	<input type="checkbox"/>	
5.1.1.3	For detailed modelling: Uneven terrain is taken into account comprehensibly and this is documented.	<input type="checkbox"/>	<input type="checkbox"/>	
5.1.1.6	For simplified 2-D modelling: The boundary conditions are fulfilled.	<input type="checkbox"/>	<input type="checkbox"/>	
5.1.2.1	For screening calculation methods: The calculation area and the spatial resolution are chosen comprehensibly.	<input type="checkbox"/>	<input type="checkbox"/>	
5.1.2.2	For screening calculation models: The built-up density is taken into account comprehensibly and this is documented.	<input type="checkbox"/>	<input type="checkbox"/>	
5.2.1	For regional models: The calculation area and the spatial resolution are chosen comprehensibly.	<input type="checkbox"/>	<input type="checkbox"/>	
5.2.2	For regional models: The building density is taken into account comprehensibly and this is documented.	<input type="checkbox"/>	<input type="checkbox"/>	
5.2.3	For regional models: Uneven terrain is taken into account comprehensibly and this is documented.	<input type="checkbox"/>	<input type="checkbox"/>	
6	Initial ambient air pollution			
6.1	When determining the initial air pollution on the basis of measured data: The inclusion of urban or rural initial pollution is described.	<input type="checkbox"/>	<input type="checkbox"/>	
6.2	When determining the initial air pollution on the basis of calculations: The regional models or interpolation models used are described.	<input type="checkbox"/>	<input type="checkbox"/>	
6.3	For future development forecasts: The estimates or model calculations are stated.	<input type="checkbox"/>	<input type="checkbox"/>	
7	Computing the total pollution			
7.1	When taking NO _x -/NO ₂ conversion into account: The calculation of the annual mean total pollution and of the overshoot frequencies is described.	<input type="checkbox"/>	<input type="checkbox"/>	
7.2	Where dust is taken into account: The calculation of the annual mean total pollution and of the overshoot frequencies is described.	<input type="checkbox"/>	<input type="checkbox"/>	
8	The spatial region to which the air pollution relate is defined unambiguously and comprehensibly.		<input type="checkbox"/>	
8	The results are displayed in cartographic or tabulated form.		<input type="checkbox"/>	
8	The archiving of the input files and protocols is ensured.	<input type="checkbox"/>	<input type="checkbox"/>	
8.1	Comprehensible discussion of the results (the BImSchV, EU Air Quality Directive assessment criteria observed)		<input type="checkbox"/>	
8.2	The materials and documentation are listed.		<input type="checkbox"/>	
9	The base dataset is archived.	<input type="checkbox"/>	<input type="checkbox"/>	