

Transferability test checklist

Title:
 Author:
 Checklist completed by:

Version no.
 Date:
 Checklist date:

Section in VDI 3783 Part 20	Test point	Inapplicable	Fulfilled	Document section/ page
5	General information			
	type of facility		<input type="checkbox"/>	
	location of the facility with cartographic depiction		<input type="checkbox"/>	
	height of the source(s) above ground and sea level		<input type="checkbox"/>	
	information on wind measurement sites of various measurement network operators and on wind measurements in the facility's area		<input type="checkbox"/>	
	special features of the planned procedure for the dispersion calculation	<input type="checkbox"/>	<input type="checkbox"/>	
5	Information on reference wind stations			
	selection of the reference wind stations is documented (distances, elimination of unsuitable stations if relevant)		<input type="checkbox"/>	
	for all stations, height above sea level		<input type="checkbox"/>	
	for all stations, coordinates		<input type="checkbox"/>	
	for all stations, wind sensor height		<input type="checkbox"/>	
	for all stations, measurement period and data availability		<input type="checkbox"/>	
	for all stations, measurement period is continuous for at least 5 years		<input type="checkbox"/>	
	for all stations, start of the measurement period is no older than 15 years when starting the processing		<input type="checkbox"/>	
	for all stations, roughness length		<input type="checkbox"/>	
	for all stations, information on quality assurance is provided		<input type="checkbox"/>	
	special local features of individual stations	<input type="checkbox"/>	<input type="checkbox"/>	
6	Transferability test			
6.2.1	target area defined and selection justified	<input type="checkbox"/>	<input type="checkbox"/>	
6.2.2	expected values for wind direction distribution in the target area defined and clearly justified		<input type="checkbox"/>	
6.2.2	expected values for wind speed distribution in the target area defined and clearly justified		<input type="checkbox"/>	
6.2.3.2	measurements of the meteorological database converted to standardised roughness length and height above ground		<input type="checkbox"/>	
6.2.3.1	deviations between expected direction maximum and the reading of the reference wind stations calculated and compared with 30°		<input type="checkbox"/>	

Section in VDI 3783 Part 20	Test point	Inapplicable	Fulfilled	Document section/ page
6.2.3.2	The difference between the expected value of the long-term annual mean of the wind speed and the measured values from the reference wind stations was calculated and compared with $1,0 \text{ m} \cdot \text{s}^{-1}$.		<input type="checkbox"/>	
6.1	As a result, the transferability of the data of a reference wind station is justified on the basis of the checked criteria (normal case) or there is no suitable reference wind station found (special case).		<input type="checkbox"/>	
6.3	Special cases			
	in the event of adjustment of measured meteorological data: procedure and modelling methods documented and their suitability justified	<input type="checkbox"/>	<input type="checkbox"/>	
	in the event of adjustment of measured meteorological data: demonstration of the spatial representativity of the adjusted data	<input type="checkbox"/>	<input type="checkbox"/>	
6.4	Representative year			
	when selecting a representative year: selection procedure documented and its suitability justified	<input type="checkbox"/>	<input type="checkbox"/>	
	when selecting a representative year: statement whether the selection is based on a calendar year or not (arbitrary start of the annual time series)	<input type="checkbox"/>	<input type="checkbox"/>	
	when selecting a representative year: measurement period at least 5 years long and is no older than 15 years when starting the processing	<input type="checkbox"/>	<input type="checkbox"/>	
7.1	Preparation of the target dataset			
	anemometer heights integrated in the target database in accordance with the TA Luft roughness classes		<input type="checkbox"/>	
	when using stability data not obtained at the reference wind station: origin of the stability data documented and their suitability justified	<input type="checkbox"/>	<input type="checkbox"/>	
	Other			
7.2	in the event of special features in the investigated area: comments on the dispersion calculation and under which prerequisites using the provided meteorological data leads to correct results as defined in the TA Luft Annex on dispersion calculations	<input type="checkbox"/>	<input type="checkbox"/>	