2.D.3.b - Road Paving

Short description

Category Code	Method				AD					EF							
2.D.3.b	T1					AS					CS						
Key Category	SO 2	NO×	NH₃	NMV	oc co	BC	Pb	Hg	Cd	Diox	PAH	HCB	TSP	PM10	PM2 5		
2.D.3.b	-/-	-/-	-	-/-	-	-	-	-	-	-	-	-	-/-	-/-	-/-		
T = key source b	by Tre	end L	. = k	ey sou	rce by	/ Lev	vel										
Methods																	
	D				De	fault	:										
	RA				Re	ferer	nce	Арр	roa	ch							
	T1			Tie	Tier 1 / Simple Methodology *												
	T2				Tie	Tier 2*											
	Т3			Tie	Tier 3 / Detailed Methodology *												
	С				CO	RINA	١R										
	CS				Co	untry	y Sp	ecif	ic								
	Μ				Мо												
* as described in						sion	Inv	ento	ory (Guide	book	- 200)7, in	the g	roup sp	ecific cha	apters
AD - Data Soui			tivit	ty Dat	a												
NS National Stat		-															
RS Regional Sta																	
IS International			;														
PS Plant Specifi																	
AS Associations			-		ons												
Q specific ques			s, sui	rveys													
EF - Emission I																	
D Default (EME	P Gu	idebo	ook)														
C Confidential																	
CS Country Spec																	
Plant Specific	c dat	a															

Currently, the report tables list produced quantities of mixed asphalt products (from stationary installations only) and NMVOC, NOx and SO2 emissions caused of this. Only emissions from asphalt production are reported. Figures relative to emissions released during laying of asphalt have not been examined.

Method

Activity data

The applicable quantity of mixed asphalt products produced (activity rate) has been taken from communications of the Deutscher Asphaltverband (DAV; German asphalt association). In total about 660 asphalt-mixing plants produce more than 40 Million tonnes of hot-mix for road paving [1].

Emission factors

Emission factors have been determined country-specifically, pursuant to Tier 2. For determination of emission factors for emissions measurements from over 400 asphalt-mixing plants, made during the period 1989 through 2000, were used. The majority of the emissions occur during drying of pertinent mineral substances. Almost all of the NMVOC emissions originate in the organic raw materials used, and they are released primarily in parallel-drum operation, as well as from mixers and

loading areas. On average, about 50% of the NOx and SO2 involved come from the mineral substances (proportional process emissions). CO emissions are calculated solely in connection with fuel inputs.

Table 1: Overview of applied emission factors, in kg/t

pollutant	Name of Category	EF value	EF trend
NMVOC	Production of mixed asphalt	0.030	constant
NOx	Production of mixed asphalt	0.015	constant
SOx	Production of mixed asphalt	0.030	constant
TSP	Production of mixed asphalt	0.006	constant
PM10	Production of mixed asphalt	0.0057	constant
PM2.5	Production of mixed asphalt	0.003	constant

Recalculations

With activity data and emission factors remaining unrevised, no recalculations have been carried out compared to last year's submission.

Planned improvements

At the moment, no category-specific improvements are planned.