Topic RADII Disclaimer	
This is a summary of the of the con represent the opinion or standpoint	ments are made by the DCA-Members to this item in the workshop. Some of the comments are contradicting each other. These do not necessarily
The DCA will use this information in	the next revision of the technical guidelines as the association feel appropriate.
Торіс	Remarks
	n to most members stood by those who did read it (both the current and the previous version) and 40 English version) should include a value for C in boulder clay and marl
	ement for larger radius should be put in case of:
 Unfavourable soil cor Large diameters pipe 	
_ ·	m) in the eye of the beholder calculated and compared would be desirable
There is a contradiction betw	een the concept of having a changeable subsoil surcharge for calculating a design radius (from 1.2 to 1.8) but allowing for an overall drilling tolerance of e subsoil surcharge is to account for a formation causing unexpected drilling conditions, then there should be an increase in the accepted drilling
	that more investigation / calculation over how the size of the reaming overcut can affect the final radius of an installed steel pipe. There are apparently apply this concept to casing, even horizontally
jettable soils safety farock/use of mud motor	
	t relevant, since both cable and duct have low allowable radii. Correct position (left/right and level) are more important.
	increasing parts such as mud motor should be mentioned. Provide examples and minimal values
	here as well and replace the 10%, e.g. Rmin should not be underrun by 20%
1	ct pipe, it may be advisable to use a larger radius. page 44 seems in contradiction with the other.
	an appendix with drill pipe diameters with minimum radii. Many don't understand the minimum bending radius for drill pipes.
	g the bending radii of different pipe materials, generally the figure of 50D is used so the effect of temperature could be disregarded.
	t always use large enough radii
	ering tool, non mags etc) and the factor C (table 3) are often not considered
There was a comment about specifications for reaming to	the consideration of the minimum radius for reamers, especially on larger diameter projects even though minimum radii are normally not included on ols
	this radius is the decisive radius
	oretically only 10% deviation from Rdesign (unrealistic, should be 30%)
What about deviations due to	
Maybe the annular space sho A 20 or 20% larger hale diameter.	
A 20 or 30% larger note diame A clean hole is also an influer	tter will reduce the risk, and partly reduce the radius (over a part)
R_min Steel • Is conclusive	Le lactor for the faulus.
	be and BHA are dictating radius in this case.
Is conclusive	o and Drivitare distaining fudice in the edge.
	ying pipes and not relevant for HDD
	ed while everybody knows we still have minimum 1 flat HDPE pipe per day in our industry.
The opinions about the reaso	

Overbend	Calculation is clear and correct
	Is conclusive
Combined Radius	Combined radius often not considered in design, resulting in a too small radius
	Minimum Curvature and actual radius in as built
	Should be emphasised more, the effects of it should be better explained
	Is the decisive radius for the (steel) pipe
	Especially for overbends the coating can be an issue because many companies use small radii, and little nr of lifting points.
Neues Thema	On page 99 (German version) the various pipe materials fit for HDD are described. In section 7.3.1.4.1 (PE pipes) more detail should be given, e.g. RT, RC etc
20 " Steel - What Radii is basis for	Depending on many factors such as steel quality, wall thickness etc
the Drill-Line? Why?	Deponding on many factors such as steet quarty, wat thickness etc
How can you fulfil the Accuracy of	Much more difficult with a large radii. Staggering may be advisable. (e.g. upto 300 m -> 10 %).
10%?	As a recommendation it is fine, Emphasis should be put on the fact this is to be looked at per crossing
	10% can only be achieved under good (drilling) conditions, otherwise not possible
	10% is too strict, is causing forma, administrative problems, despite there is no actual technical problem
	Not realistic, recommendation to use 30%
General remarks in relation to radii	Remark that there should be a straight section at both entry and exit sides
	In general, the chapter is considered to be well described, in sufficient detail.
General remarks to the new revision	Page numbering on the inside of the printed version not practical
	Proposal: Use more examples of actual jobsites; on the other hand, this was rejected.