

HAR Agreement	OPERATIONAL DOCUMENT	OD-114
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**List of Tests allowed to be subcontracted by the HAR
Laboratories**



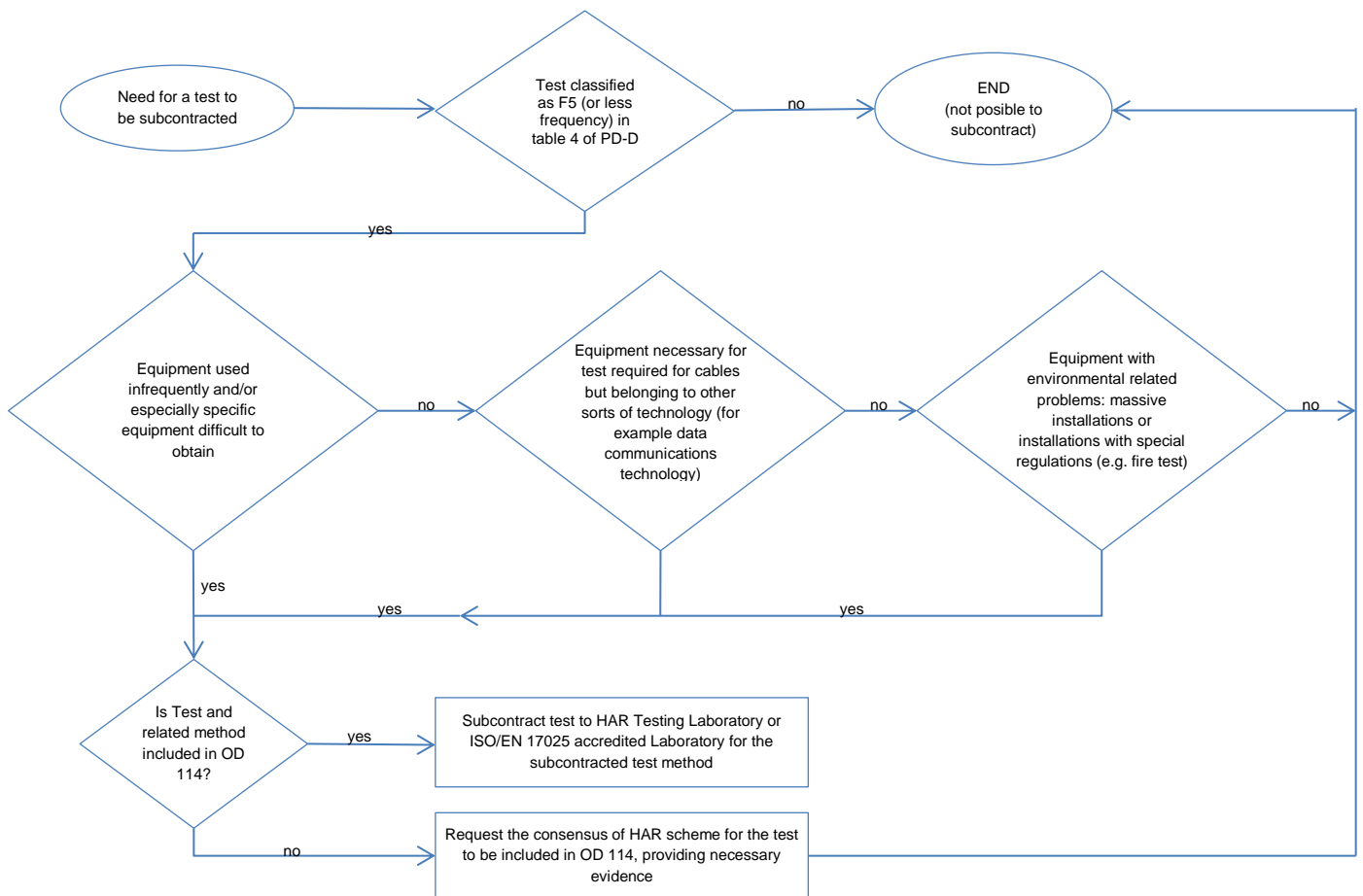
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List of Tests allowed to be subcontracted by the HAR Laboratories

1. GENERAL

This operational document defines the criteria and lists the tests and related test methods allowed to be subcontracted for the purpose of Type or Surveillance testing within the HAR Agreement. In order to facilitate the implementation, the provisions of this document are in line with those of the IEC/IEEE/CB Scheme for the same purpose.

The following process and criteria apply:



The subcontracting process could be managed by the Testing Laboratories of the Certification Bodies members of the Agreement or by the Certification organisation itself.

LIST OF TESTS ALLOWED TO BE SUBCONTRACTED
(References in this table are taken from table 1 of PD-C in order to ensure traceability)

REF.	TEST	TESTING STANDARD	CLAUSE	COMMENTS
1.8	Transfer impedance	EN 50395	12	Different Technology Infrequent use for energy cables
2.2.12	Carbon black content	EN 60811- 605	4.2. Method A or 4.3 Method B	Different Technology Infrequent use
2.2.13	Ozone resistance:			Specific equipment
	- Method A	EN 60811- 403		
	- Method B	EN 50396	8.1	
2.4.2	Test on bunched cables	EN 60332-3-24		Environmental limitations
2.4.3	Corrosivity and acid gas emission of non-metallic material Assessment of halogens for all non-metallic materials	EN 60754-1		Environmental limitations
		EN 60754-2		Environmental limitations
		EN 60754-3		Environmental limitations
		EN 60684-2		
		EN 50525-1	Annex B	
2.4.4	Smoke emission	EN 61034-1 EN 61034-2		Environmental limitations Specific equipment
2.4.5	Fire resistance (mineral cables)	IEC 60331-1 IEC 60331-2	---	Environmental limitations Infrequent use
2.2.20	Saponification for TPU sheath	EN 50396	10.1	Specific equipment, Infrequent use
2.2.25	Optional clashing test on PVC insulation	EN 61138	5.4	Specific equipment, Infrequent use
2.2.28	Weathering/UV resistance test on sheath (PV cables)	EN 50289-4-17	Method A	Specific equipment, Infrequent use
		EN 50618	Annex E	
2.3.20	Dynamic penetration	EN 50618	Annex D	Specific equipment, Infrequent use
END OF TESTS ALLOWED TO BE SUBCONTRACTED				