Questionnaire for Cable Testing and Fault Locating

High Voltage, Inc. is making a renewed effort to serve your applications for cable fault locating and cable testing. HVI produces several of the top products available for these two areas. For example, our unique model VT33, a Very Low Frequency (VLF) AC Hipot-Thumper combination, is ideally suited for URD cable systems. This model provides a 0-33 kVac @ 0.1 Hz VLF output for testing cables after installation or repair, a 13 kVdc @ 860 joule thumper output, and a built-in TDR interconnect filter. HVI also offers several other thumper models: 0-5/10/20 kV @ 1000 joules and 0-9/18/36 kV @ 1600 or 3200 joules.

To best help you and to help us fine tune our line to meet your needs, we ask you to please answer the following questions. The answers you provide will help us to better serve you and the industry. Cable fault locating should never be about just buying a thumper. Rather, it should be approached with both testing and fault locating in mind, the different product technologies needed, and how best to combine these technologies and products into an integrated system designed to maximize the effectiveness of these instruments while minimizing the size, weight, cost, and portability of the system. HVI does this very well.

Thank you for your consideration of High Voltage, Inc. and for your time with this questionnaire. If you have any questions, please contact us at marketing@hvinc.com.

* Required

Present Hardware and Methods Used

 Do you now have a cable fault locator, or thumper? Mark only one oval.
Yes
No
2. If yes, what brand is it? Model number? How old?
3. What is the thumper voltage output? Mark only one oval.
5 - 10 kV
11 - 15 kV
16 - 20 kV
21 - 30 kV
31+ kV

4.	What is the thumper joules rating? Mark only one oval.
	0 - 500
	501 - 1000
	1001 - 2000
	2001 - 3000
	3001+
5.	Does it have a variable hipot output to test or burn the cable? Mark only one oval.
	Yes
	○ No
6.	If yes, what is the mA current rating? Mark only one oval.
	1 - 20
	21 - 50
	51 - 100
	101 - 200
	201 - 400
	401+
7.	Do you use the variable hipot for DC testing the cable? Mark only one oval.
	Yes
	No
8.	Do you use a TDR/radar to find the distance to the fault? If yes, what brand Mark only one oval.
	No TDR/Radar
	Brand?
9.	What kind of listening, or pinpointing, device do you use?

	you ever use the small suitcase thumpers, or Sectionalizers? * ark only one oval.
	Yes
	No No
_	yes, do you find they have enough power to find all your faults?
	Yes
	No
	the mini-thumper can't do the job, do you have a bigger thumper to use?
	Yes
	No
	e you happy with your present situation? ark only one oval.
	Yes
	No
	le System Facts hat are the voltage ratings of your system?
	ow many miles of underground cable is in ur system?
	ow much of it is direct buried?
	ow old is the system? What are your oldest bles still operating?

18.	What kind of insulation is mostly used?
	Check all that apply.
	PILC
	HMW
	☐ EPR
	XLPE
	TR-XLPE
	Other:
19.	Do you have any unjacketed cables?
	Mark only one oval.
	Yes
	No
20	Do you inject, or rejuvenate, cables to extend their life?
20.	Mark only one oval.
	Yes
	No
_	
Fa	ult History
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	How many faults a year, or a month, do you
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21.	How many faults a year, or a month, do you have?
21.	How many faults a year, or a month, do you
21.	How many faults a year, or a month, do you have? Are most faults in accessories or in the insulation?
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21.	How many faults a year, or a month, do you have? Are most faults in accessories or in the insulation? Mark only one oval. Accessories
21.	How many faults a year, or a month, do you have? Are most faults in accessories or in the insulation? Mark only one oval. Accessories Insulation Do you find your faults in an acceptable time frame?
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25.	What kind of cable testing do you do?
26.	What kind of product is used?
27.	Is your present method acceptable to you?
	Mark only one oval.
	Yes No
28.	When you install new cable, do you perform acceptance testing to make sure the installation was not flawed?
	Mark only one oval.
	Yes - DC hipot
	Yes - hot stick adapter
	Yes - insulation resistance
	Yes - VLF AC withstand
	○ No
29.	After a repair is made, what is done to verify the integrity of the cable, and the adjacent cables, before re-energizing?
Ne	w Area of Testing – Concentric Neutral Corrosion Testing
unw	you have problems resulting from corroded neutrals, like system voltage instability, stray currents in ranted or dangerous places, return currents not returning, fault relay coordination disrupted, fault ents jumping to other underground utilities or to homes, etc?
30	Do you wish you had a way to measure your neutrals' integrity?
50.	Mark only one oval.
	Yes
	No

System Have?

31. Maximum	voltage output?
Mark only Yes	
33. A Burn Mo Mark only	ode to burn faults? one oval.
Yes No	;
34. Joule/ene	rgy rating?
35. DC hipot o Mark only Yes	
37. Battery op Mark only Yes No	one oval.
38. TDR/radar Mark only Yes No	one oval.
Mark only Bui	OR or remote? one oval. ilt in mote

	Types of fault location? Check all that apply.	
	Arc reflection	
	Current pulse	
	Voltage decay	
	Other	
41.	Packaging requirements?	
	Standalone or built in?	
	Check all that apply.	
	Portable thumper	
	Built into a van	
	Is there anything else we haven't covered that you want to share about your company's cable testing and fault locating needs?	
	Mark only one oval.	
	Option 1	
44. If you would like an HVI product specialist to contact you for further discussion, please include your preferred method of contact below.		

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