Truth in Testimony

1. Name: Edward R. Hamberger

2. Title: President and CEO

3. Organization you are representing: Association of American Railroads

4. Date of hearing: September 13, 2018

5. The amount and source of each federal grant (or subgrant thereof) or contract (or subcontract thereof) related to the subject matter of the hearing, received by you or an entity represented by you during this year or the prior two calendar years (2016 and 2017): (attach additional pages as necessary).

The AAR hosts a Train Control Communications and Operations Committee that provides a forum for Class I Freight Railroads, the Transportation Technology Center, Inc. (TTCI) and the Federal Railroad Administration (FRA) to build strategies around train control and review industry/government cooperative projects. TTCI, which is a wholly owned subsidiary of the AAR has entered several FRA funded PTC- related projects in 2016 and 2017. A list of those projects are included in attachment A.

6. The amount and country of origin of any payment or contract related to the subject matter of the hearing originating with a foreign government, received by you or an entity represented by you during this year or the prior two calendar years (2016 and 2017): (attach additional pages as necessary)

None

2018 (Through August)	Total	Ś	1,720,071.36
2018 (Through August)	TO 0028 Interoperable EIC-PRT	\$	131,618.96
2018 (Through August)	TO 0030 PTC Interoperability Support - II	\$	44,064.74
2018 (Through August)	TO 0032 Higher Reliability Train Control	\$	114,391.12
2018 (Through August)	TO 0041 PTC MAIN	\$	243,315.46
2018 (Through August)	TO 054 PTC Test Facility Phase II	\$	110,288.48
2018 (Through August)	TO 700 Enhanced Overlay PTC	\$	171,578.63
2018 (Through August)	TO 764 Track Data Auditing System - Phase II	\$	205,035.62
2018 (Through August)	TO 778 Quasi-Moving Block PTC	\$	296,642.23
2018 (Through August)	TO 782 PTC Braking Algorithm Evaluation Methodology	\$	107,437.45
2018 (Through August)	TO 785 Analysis of Adaptive Braking Algorithm	\$	95,069.11
2018 (Through August)	Passenger Braking Algorithm Enhancement - Phase II	\$	4,057.51
2018 (Through August)	ITC RF Integrity and Security	\$	196,572.05
	Total		2,332,779.80
	TO 355 NEC PTC Network Design	\$	235,008.75
	TO 359 PTC Passenger Braking Algorithm	\$	322,763.63
	TO0017 PTC Machine Vision Track Map Audit	\$	65,591.27
	TO 0028 Interoperable EIC-PRT	\$	438,362.58
	PTC Interoperability Support - II	\$	178,454.63
	TO 0032 Higher Reliability Train Control	\$	530,006.73
	TO 0041 PTC MAIN	\$	161,191.83
	TO 0054 PTC Test Fac	\$	46,670.22
	TO 700 Enhanced Overlay PTC	\$	64,612.73
	TO 764 Track Data Auditing System - Phase II	\$	41,151.83
	TO 778 Quasi-Moving Block PTC	\$	51,850.39
	TO 782 PTC Braking Algorithm Evaluation Methodology	\$	45,920.89
	TO 785 Analysis of Adaptive Braking Algorithm	\$	23,682.26
2017	ITC RF Integrity and Security	\$	127,512.06
2016	Total	\$	3,239,614.87
2016	TO 312 Braking Algorithm Freight	\$	24,300.00
2016	TO 321 PTL Phase II	\$	284,988.59
2016	TO 330 EIC PRT	\$	55,826.15
2016	TO 335 PTC220 CHI KCS DFW Net Design	\$	31,852.37
2016	TO 339 FRA PTC TestBedVeri & Val	\$	6,452.91
2016	TO 350 EIC PRT Integration and Test	\$	348.70
2016	TO 355 NEC PTC Network Design	\$	290,792.22
2016	TO 358 TTT Signal System & ACSES	\$	393,553.00
2016	TO 359 PTC Passenger Braking Algorithm	\$	457,989.99
2016	TO 0007 PTC Test Bed BOS & CAD Upgrd	\$	113,264.40
2016	TO 0012 PTC Interop Support	\$	110,626.59
2016	TO 0013 Adaptive Interfer Canceller - Phase 1	\$	67,046.89
2016	TO 0015 FRA 220 Mhz Loco Filter Test	\$	483,000.51
2016	TO0017 PTC Machine Vision Track Map Audit	\$	225,509.30
2016	PTC Test Facility Analysis and Design	\$	41,816.00

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2016 FRA TO0028 EIC PRT Admin	\$ 410,224.39
2016 FRA TO 32 PTC Train Contr	\$ 195,708.77
2016 TO 0041 PTC MAIN	\$ 38,723.11
2016 FRA PTC Implement Grant	\$ 7,590.98