

ACHIEVEMENT PROGRAM MODEL RAILROAD ENGINEER ELECTRICAL STATEMENT OF QUALIFICATIONS FORM

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Member's Name:		_ NMRA #:	Exp:
Street:	City:	City: State/Prov.:	
ZIP/PC: Count	ry:	NMRA Region:	Division:
Date Submitted: E-Mail:		Phone:	
To qualify for this certificate you r	nust:		
an electrical control system on mainline trains in either direction If DC Power – 5 blocks th If DCC/TMCC/Other Power — 1 blocks th One Reverse Loop or Wyo One passing siding Facilities for storing of at One yard with a minimum One power supply with pr Other	a model railroad cap n, and containing at lea at can be controlled in wer – gaps/switches/ph e or Turntable or Trans least two unused motive of three tracks and a	able of simultaneous a ast: dependently ase for troubleshooting sfer Table we power units. switching lead independ	and independent control of two
2. Wire and demonstrate the electri Turnout Crossing Crossover Double crossover	☐ Single slip swite ☐ Gauge separatio ☐ Double junction	ch G on turnout S ₁ turnout O	track items: auntlet turnout pring switch perating switch in overhead ther
3. Wire and demonstrate the satisfa Electrical turnout positi Track occupancy Cab control Engine terminal Two turnout junctions High-frequency lighting Electronic throttle Grade crossing	on Two-way block Operating overl Computer contr Animated displ Layout lighting Command Com	signaling nead wire rol ays displays trol Receiver arol Throttle Buss	ne following features: Sound system Signaling system CTC system Onboard video system Computerized block detection Computerized operation Computer to railroad interface Other

4. Prepare a schematic drawing of the propulsion circuitry of the model railroad in Section 1 showing the gaps, blocks, feeders, speed and direction control, electrical switches and power supplies.



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5. Prepare schematic drawings identifying the wiring and components of the six items in Requirements 2 & 3. Submit a completed Statement of Qualifications (SOQ) which shall include the following: Attachment showing the track plan required in Requirement 1. Description of the track work features, method of construction and identification of commercial components used in 2 & 3. The signed witness certification form showing that each of the above items are operational and meet all applicable NMRA Standards. EVALUATOR'S NAME SIGNATURE NMRA# **Member Statement and Agreement:** I certify that I have completed all of the requirements for this Certificate of Achievement as listed above and that I will agree to assist other members in this subject whenever possible, whether or not they are participants Division Achievement Program Chair Review (optional): Reviewed for compliance and completeness. NAME: SIGNATURE: Date: Certification of Region Achievement Program Chair As the NMRA Region Achievement Program Chair of the ______, I certify that I have examined this SOQ and, having compared it to the stated requirements for this certificate, I am satisfied that the stated requirements have been met. Region Certificate #: Approval by AP National Executive Assistant Manager

NAME: SIGNATURE: Date: _____