

 ENGINEERING PRACTICES	ORIGINAL ISSUE DATE 01/31/20	NUMBER	
	REVISED DATE	EP7014	
TITLE REQUIRED EQUIPMENT & FREIGHT CAR CLEARANCES	RECOMMENDED Tom Ryan	DATE 1/30/20	PAGE 1
	APPROVED Joanna Pardini	DATE 1/31/20	OF 3

SCOPE AND NATURE

To establish a uniform procedure for maintaining required equipment and freight car clearances from catenary wires in electrified territory. The procedures in this Engineering Practice are intended to provide guidelines for establishing passing clearance (distance from wire) for equipment and are to be used in conjunction with the clearance routes outlined in the Amtrak Northeast Corridor Employee Timetable Special Instructions as outlined in the NORAC Operating Rule Handbook, current edition. The parameters included herein are intended to assist the Clearance department in its designation of minimum trolley heights.

SPECIAL REFERENCE

- NORAC
- NEC Employees Timetable

PROCEDURE

Procedure is described following this page and is a part of Engineering Practice 7014.

QUALIFICATION

These procedures were developed to provide uniform guidance to personnel engaged in the coordination and operation of equipment in electrified territory.

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RESPONSIBILITY

ET EmployeesEnsure Compliance with Procedure
Class "A" EmployeesEnsure Compliance with Procedure
Assistant ET Supervisor.....Ensure Compliance with Procedure
ET Supervisor/ ManagerEnsure Compliance with Procedure
Assistant Division EngineerEnsure Compliance with Procedure
Deputy Division EngineerEnsure Compliance with Procedure
Division EngineerEnsure Compliance with Procedure
Senior Manager Operations – ETEnsure Compliance with Procedure
Senior Manager Standard Policies & Procedures ..Ensure Compliance with Procedure
Deputy Chief Engineer – ETEnsure Compliance with Procedure

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1.0 REQUIRED CLEARANCES FROM CATENARY WIRES

1.1 Definitions

- ◆ OCS Overhead Contact System. A system of wires including Messenger, Auxiliary, and Contact (trolley) wires that comprise the system for delivery of energy to electric trains.

1.2 Clearances

- ◆ Table A shows required equipment and freight car clearances by location that must be maintained from the trolley wire, listed on the following page.

TABLE A

Required Equipment and Freight Car Clearances		
Clearance* (in)	Location	Additional Parameters
5	Tunnel**	OCS attached at intervals 60' or less
7	Tunnel**	OCS attached at intervals greater than 60'
	Bridge	OCS that supported on or within 15' of the bridge
9	Bridge	OCS that is unsupported
12	Mainline and Yard areas for wire spans greater than 100'	OCS located not under a structure but supported at regular intervals by catenary structures
18	As determined by Clearance Department	Freight equipment where the height of the loaded car is indeterminate i.e. Hopper cars or Gondolas where the material in the car can exceed the height of the top chord of the car

* Clearance from top of equipment or freight car to catenary wires
** Also includes underground stations, i.e. New York Penn Station