

January 27, 1958

Mr. J. B. Singleton, Supt.
Southern Railway System
Somerset, Ky.

Dear Mr. Singleton:

Attached are 4 more copies of the application for a 13,200 volt 3-Ø power line crossing over the H. & N. E. R. R. located 4100 feet north of M. P. 1 within city limits of Harriman, Tennessee.

These are being sent to you pursuant to a telephone call from your Mr. Walter Hudson.

Yours very truly,

HARRIMAN UTILITY BOARD

C. E. Perkins, Mgr.

CEP/scl

January 20, 1958

Mr. J. B. Singleton
Southern Railway System
Somerset, Ky.

Dear Mr. Singleton:

Attached is an application for a 13,200 3 - ϕ power line crossing over your tracks located 4100 feet north of H. P. 1 within city limits of Harriman.

We will appreciate your prompt handling of this application.

Yours very truly,

HARRIMAN UTILITY BOARD

C. E. Perkins, Mgr.

CEP/scl

SOUTHERN RAILWAY SYSTEM

APPLICATION FOR WIRE CROSSING

ELECTRIC LIGHT, POWER SUPPLY AND TROLLEY LINES

To the Superintendent of Harrison & North Eastern Division:The undersigned hereby makes application to cross the right of way of the H & N. E. Rail Road

Company with a line of wires, as described below, forming a part of the applicant's line extending from T. V. A
Sub to Sewer Plant, and hereby agrees to construct, install, maintain and renew
 said crossing in strict accord with the applicable requirements of the latest issue of REPORTS OF JOINT ENGINEER-
 ING COMMITTEE OF ASSOCIATION OF AMERICAN RAILROADS AND EDISON ELECTRIC INSTITUTE
 ON CROSSINGS OF ELECTRICAL SUPPLY LINES AND FACILITIES OF STEAM AND ELECTRIFIED RAIL-
 ROADS, regardless of anything in the following descriptions which may be in conflict with such specifications, and
 further agrees, before attempting to effect the same, to execute, promptly upon submission, a contract, in form re-
 quired by the Railway Company to cover said crossing.

DESCRIPTION OF PROPOSED CROSSING

Proposed crossing to be located 4100 ft. ^{ N or E }_{ S or W } of M. P. 1between IN THE CITY OF HARRISMAN and will be ^{overgrade.}_{undergrade.}Angle between center line of main track and supply line crossing span to be 78 degrees.

The line will approach the crossing from ^{ N or E }_{ S or W } sides in a generally EASTWARDLY direction
 at N 73 E degrees.

Number of tracks to be crossed 1 Number of pole lines to be crossed NONENumber of poles on right of way of Railway Company 1 Number of guys or anchors NONEDistance from crossing poles or towers to center line of nearest main track N or E 174 ft.S or W 29 ft.

Distance from crossing poles or towers to center line of nearest side track N or E _____ ft.

S or W _____ ft.

If proposed line will parallel the Railway right of way on either side of crossing, state approximate length of parallel:

_____ ft. and separation between proposed line and Railway communication lines: _____ ft.

Type of Supports ^{ Poles. }_{ Towers. } Poles have ^{ Double }_{ Single } crossarms or vertical construction employing ^{ Clevises }_{ Racks }If wood poles are used, give kind of timber Sou. Pine Length of pole 70-3 55-3 ft.Circumference at top 23 in. Circumference six feet from butt 70' = 46" 55' = 41.5 in.Depth of pole to be set in ground 70' = 9' 55' = 7 1/2' ft. Show on drawing location of all guys and anchors.A. C. Voltage 13,200 No. phases 3 Operation ^{ Delta }_{ Star }

Configuration to be shown on drawing

(2)

Cycles 60 No. wires 4 Is neutral ground employed in supply line? yes

Will voltage be increased later? No If so, to what voltage _____

D. C. Voltage _____ Amperes _____ No. wires _____ Configuration to be shown on drawing _____

Size of wire 4 17 gauge { AWG } Material of wire Copper & Steel { Hard } drawn.
{ Solid } { Bare }
{ Stranded } { Insulated }

Insulators, Material Porcelain Type { Pin-type } Voltage Rating 15 Kv.
{ Rigid Dead-end }
{ Suspension }

Height of lowest wire above top of rail 43.5 ft. Height of lowest crossarm of wire support above ground 45 ft.

Minimum vertical separation between nearest crossing wire and Railway communication wires _____ ft.

Railway signal wires _____ ft.

Length of crossing span 203 ft.

Length of spans adjacent to crossing span N. or E. 429 ft. S. or W. 156 ft.

Maximum sag in crossing span 8 ft. at 60 degrees Far.

Maximum stress in each gauge of wire: 4A4 gauge 1494 lbs. AT 15°F 1/4" ice 4" wind

lbs. _____ gauge _____ lbs. under applicable loading conditions.

Applicant will attach drawing showing layout of proposed crossing and details of construction.

UNDERGRADE CROSSING

Depth below base of rail _____ ft. Size and character of duct _____

Number of ducts _____ ft. Type of protection for ducts _____

Applicant to give full description of material to be used and method of installation.

Name of applicant seeking crossing HARR. UB

Incorporated under the laws of the State of _____

Location of principal office HARR. State of Tenn

If not incorporated, give names and addresses of principal owners: _____

Owned by the City of Har.

Har. Tenn. Signed Harrington Utility Board
(Town) (State) by C. E. Perkins Mayor.

1-20 19 58 for City of Harriman Tenn.
Application Approved: _____ Title _____

Superintendent Superintendent Communications

Chief Engineer M. W. & S. Signal and Electrical Superintendent