

April 18, 1968

Southern Railway System  
Office of Chief Engineer  
Knoxville, Tennessee 37924

Gentlemen:

The City of Harriman, Tennessee, acting by and through the Harriman Utility Board, request the approval of our application for a crossing over the main track at a point 695' North of M P 49 for a overhead power line.

We submit the following data covering this application.

1. Location 695' North M P 49
2. Type Utility Electric
3. Type Wire 1/0 aluminum ACSR, Poles - Southern Pine
4. Maximum Voltage 15 Kv
5. Eight (8) prints
6. Harriman Utility Board Members  
Sam Browder, Chairman  
Maurice Williams, Treasurer  
Wade Honeycutt, Secretary  
Tom Tarwater  
Hurst Walker

We shall appreciate your early attention of this application.

Very truly yours,

Jack Howard  
ASSISTANT MANAGER

JH:el

Enclosures



## SOUTHERN RAILWAY SYSTEM

## APPLICATION FOR WIRE CROSSING

## ELECTRIC LIGHT, POWER SUPPLY AND TROLLEY LINES

To the Superintendent of Knorrville Division:The undersigned hereby makes application to cross the right of way of the Southern Rail road

Company with a line of wires, as described below, forming a part of the applicant's line extending from Harriman to Knorrville, 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 ENGINEERING COMMITTEE OF ASSOCIATION OF AMERICAN RAILROADS AND EDISON ELECTRIC INSTITUTE ON CROSSINGS OF ELECTRICAL SUPPLY LINES AND FACILITIES OF STEAM AND ELECTRIFIED RAILROADS, 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 required by the Railway Company to cover said crossing.

## DESCRIPTION OF PROPOSED CROSSING

Proposed crossing to be located 695 ft. <sup>N or E</sup><sub>S or W</sub> of M. P. 49between Harriman and Knorrville and will be <sup>overgrade.</sup><sub>undergrade.</sub>Angle between center line of main track and supply line crossing span to be 93° degrees.The line will approach the crossing from <sup>N or E</sup><sub>S or W</sub> sides in a generally North easterly direction at N 66 E degrees.Number of tracks to be crossed 1 Number of pole lines to be crossed 1Number of poles on right of way of Railway Company — Number of guys or anchors —Distance from crossing poles or towers to center line of nearest main track N or E 78 ft.S or W 51 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 <sup>Poles.</sup><sub>Towers.</sub> Poles have <sup>Double</sup><sub>Single</sub> crossarms or vertical construction employing <sup>Clevises</sup><sub>Racks.</sub>If wood poles are used, give kind of timber So. Pine Length of pole 1-65 ft.Circumference at top 23 in. Circumference six feet from butt 65-44.5 in.Depth of pole to be set in ground 65-8.5 ft. Show on drawing location of all guys and anchors.A. C. Voltage 15KV No. phases 3 Operation <sup>Delta</sup><sub>Star</sub>

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 1/0 gauge { AWG } aln Material of wire ACSR { 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 52 ft. Height of lowest crossarm of wire support above ground \_\_\_\_\_ ft.  
Minimum vertical separation between nearest crossing wire and Railway communication wires 15 ft.  
Railway signal wires 37 ft.  
Length of crossing span 129 ft.  
Length of spans adjacent to crossing span N. or E. 300 ft. S. or W. 285 ft.  
Maximum sag in crossing span 1 ft. at 60 degrees Far,  
Maximum stress in each gauge of wire: 4280 gauge 1/0 lbs. gauge \_\_\_\_\_  
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 HARRIMAN Utility Board  
Incorporated under the laws of the State of \_\_\_\_\_  
Location of principal office HARRIMAN State of Tennessee  
If not incorporated, give names and addresses of principal owners: \_\_\_\_\_  
CITY OF HARRIMAN, Tennessee

\_\_\_\_\_  
(Town) (State) Signed \_\_\_\_\_  
Application Approved: \_\_\_\_\_, 19\_\_\_\_ Title \_\_\_\_\_  
\_\_\_\_\_  
Superintendent Superintendent Communications  
\_\_\_\_\_  
Chief Engineer M. W. & S. Signal and Electrical Superintendent



DRAWING OF 15 KV  
 POWER LINE OVER  
 SOUTHERN R.R. 690'  
 NORTH M.P. 49  
 HARRIMAN UTILITY  
 BOARD 4/17/68

