

# NOISE EXEMPTION REQUEST FOR CONSTRUCTION ASSOCIATED WITH PERMITS TREX22-00387 & EXCV22-00410

Any person responsible for any noise source may apply to the County Manager for an exemption or partial exemption from chapter 15 of the Arlington County Code. The County Manager may grant such exemption or partial exemption if he or she finds that:

1. The potential danger to the community is outweighed by the benefit to the public interest during the period of exemption, or
2. Compliance with the provisions of this chapter from which exemption is sought would produce serious hardship without equal or greater benefits to the public.

Dominion is requesting a noise exemption because this work must be done continuously until completed. This work would benefit the public by upgrading the Glebe Substation equipment that powers vital infrastructure and the local community businesses and residences.

## PROJECT NAME

Dominion Underground Transmission Line 2036/2037 Project Freeze Pit

## APPLICANT INFORMATION

<b>Name &amp; Job Title:</b> Craig Hurd, Senior Siting & Permitting Specialist	<b>Requesting Company Name:</b> Virginia Electric and Power Company (Dominion Energy)	
<b>Address of Company or Organization:</b> 10900 Nuckols Road 4th Floor		
<b>City:</b> Glen Allen	<b>State:</b> VA	<b>ZIP Code:</b> 23060
<b>Telephone Number(s):</b> O: (804) 771-6489 C: (804) 201-5020	<b>Email:</b> Craig.R.Hurd@dominionenergy.com	

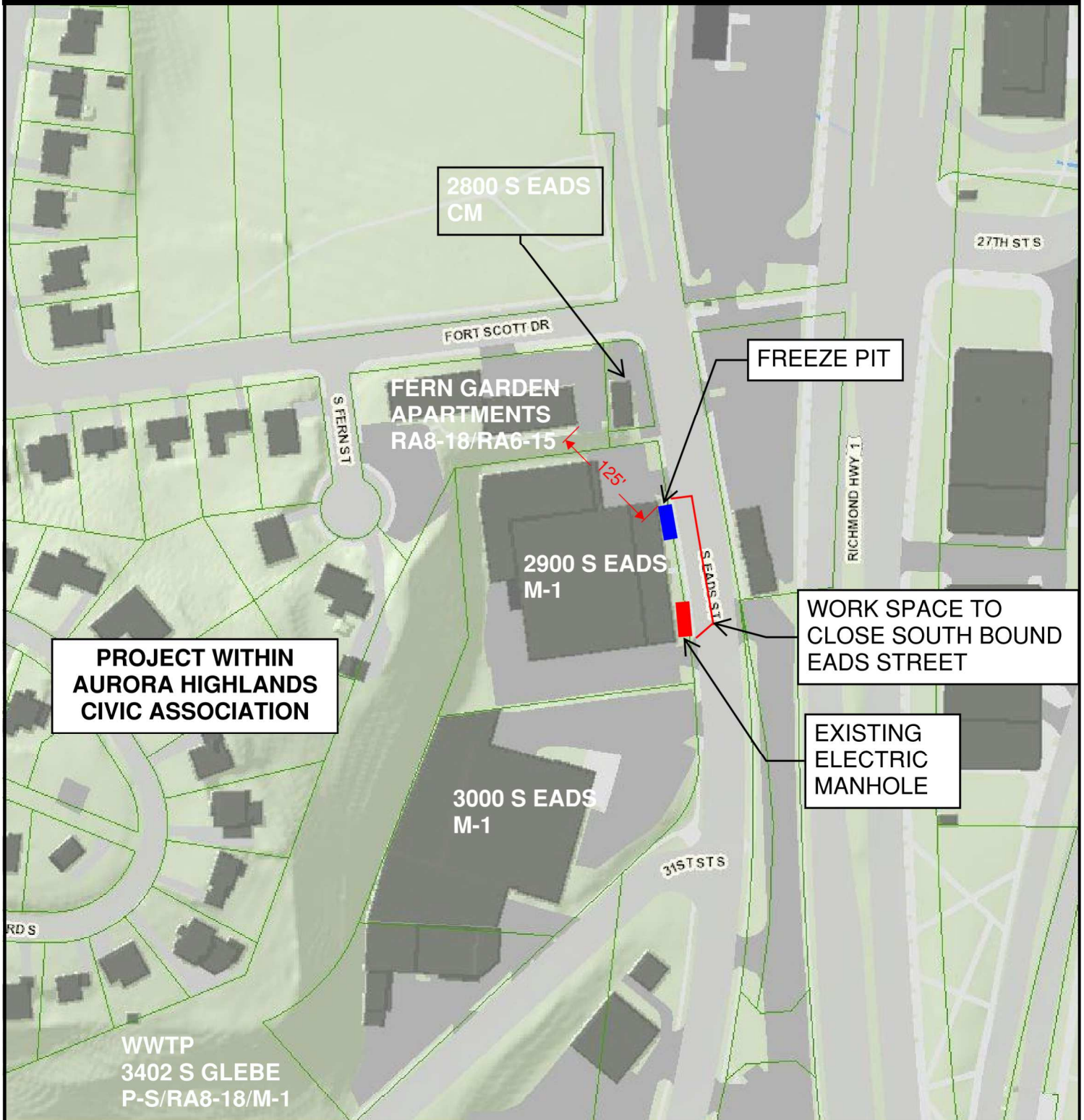
## PROPERTY/CONSTRUCTION/JOB SITE INFORMATION

Dates of proposed work: Starting April 25th, 2022 and working continuously day and night for 3 weeks until work is completed.

Property address: 2900 South Eads St, work to be done in front of building inside existing Dominion easement, vehicle/material staging will be in Arlington ROW.

Summary of work: The 20' x 6' freeze pit will be approximately 7' deep and will be over an existing dielectric oil filled underground transmission line inside a ductbank. The UG cables inside the duct bank will be replaced and to do so the liquid dielectric oil that surrounds the cables must be frozen in place using liquid nitrogen. This excavated pit and shack that goes over top the pit will house the coolant lines and creates an enclosed access point to the UG ductbank. Once the oil inside the conduit is frozen at the pit, the fluid can be drained back to the Glebe Substation and the cables are cut and removed. New cables will be brought in and spliced at the manhole 50' away in front of the same building at 2900 S Eads.

# MAP OF SITE, STREETS AND ADJACENT PROPERTIES



Work site is within Aurora Highlands Civic Association and the nearest residential dwellings are the Fern Gardens Apartments which are 125' from the work site at the closest point. The freeze pit will be located at the northeast corner of the building behind the sidewalk in the grass area in front of the building inside easement. The work site will close down the southbound lane of S Eads between the two entrances into 2900 S Eads, a detour will be provided to route traffic around the work site to Fort Scott Dr to S Grant St to 31st St S then back to S Eads St. Dominion will notify the Fern Gardens Apartments, local businesses and Aurora Highlands Civic Association of this planned work per exemption request instructions.

## DESCRIPTION OF WORK ACTIVITIES

- 1.The proposed freeze pit area located in greenspace will be excavated and safely shored approximately 35-50 feet north of (MH102)
- 2.Exposure of the existing 8-inch HPFF feeder pipe will require planned excavation work activities (hydrovac/hand excavation/dump truck and possibly a skid steer will be onsite during this time)
- 3.A temporary 'freeze shack' or enclosure will be installed over the recently excavated and shored pit (Construction of the wooden enclosure)
- 4.Coiled copper tubing will be wrapped external around the exposed 8-inch HPFF feeder pipe and exit the enclosure connected to either a N2 bulk source to maintain freeze operations (N2 tank or series of N2 dewers onsite during this time)
- 5.The freeze will be applied and monitored 24 hours around the clock by (2) or more field personnel until work operations are completed (pickup/rack truck and above equipment 'Step 4' onsite during this time)
- 6.Once the freeze is established the existing fluid between the (MH102) segment back to Glebe Sub will be evacuated (sucktruck/bottle truck/pickups onsite during this time)
- 7.The 8-inch feeder pipe will be cut and reducers welded on with the existing cable remaining inside (welders rigs will be onsite during this time)
- 8.Once the reducers are on the 8-inch feeder pipe the cable cut and nightcaps installed in preparations to allow the freeze to thaw
- 9.As the freeze thaws the N2 tank or dewers, copper coiling, and temporary enclosure can be removed off-site, and the pit area backfilled and restored with seed and straw
- 10.Once the pit area is restored, sub-sequential cable removal operations migrate to routine access inside (MH102)

**The loudest activity onsite during the above process will be the (hydrovac/sucktruck/welders rigs) all that could be utilized by the contractor during planned work operations during night-time hours. There will be noise related to blow-offs related to the operation of the equipment that maintains the freeze.**

## LIST OF EQUIPMENT TO BE USED

generator  
light plant  
nitrogen skid/dewers  
freeze shack  
hydrovac/sucktruck  
small excavator  
welding rigs  
vacuum pump  
splice truck  
boom truck  
rack truck  
road tractor  
cable reel trailer

## CONTACT

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