APPENDIX B: PHOTO SIMULATIONS – SELECT VIEWS
NOTES:
Viewpoint locations have been precision surveyed by Dominion Virginia Power Coordinator - Survey Services Larry Hedblom, L.S. 701 East Cary Street Richmond, Va. 23219 No part of this photosimulation shall be altered in any way. Visual Assessments should be made from the full size TrueView™ only.

CORRECT VIEWING OF TRUEVIEW™ PHOTOSIMULATIONS

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (500 mm)

DATE: 17-Feb-2014
WARRENTON - WHEELER - GAINESVILLE 230kV Project
Tower placement in simulation is preliminary - final tower locations and heights may change upon final design and survey

VIEWPOINT 20 - Auburn Historic District - Looking West South West - Existing View

EASTING POSITION (NAD 83): 11707835.4
NORTHING POSITION (NAD 83): 6947667.0
ELEVATION OF VIEWPOINT POSITION (ft): 429.2 (NAVD 88)
HEIGHT OF CAMERA ABOVE GROUND (ft): 5.4
DATE OF PHOTOGRAPHY: 24-Jan-2014 at 02:00 pm
ORIENTATION OF VIEW: WSW
HORIZONTAL FIELD OF VIEW: 124°
STRUCTURE TYPE: Galvanized Steel Pole
APPROX AVERAGE HEIGHT (ft): 85
WIDTH AT CROSSARM (ft): 35
WIDTH AT BASE (ft): 3.3
RIGHT OF WAY WIDTH (ft): 100

Photosimulation Created Using TrueView™ Technology
(Patent No.: US 8,184,906 B2)
Provided by www.truescape.com
NOTES:
Viewpoint locations have been precision surveyed by Dominion Virginia Power Coordinator - Survey Services Larry Hedblom, L.S. 701 East Cary Street Richmond, Va. 23219
No part of this photosimulation shall be altered in any way. Visual Assessments should be made from the full size TrueView™ only.

CORRECT VIEWING OF TRUEVIEW™ PHOTOSIMULATIONS

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (500 mm)

DATE: 17-Feb-2014
WARRENTON - WHEELER - GAINESVILLE 230kV Project
Tower placement in simulation is preliminary - final tower locations and heights may change upon final design and survey

VIEWPOINT 20
Auburn Historic District
Looking West South West

EASTING POSITION (NAD 83): 11707835.4
NORTHING POSITION (NAD 83): 6947667.0
ELEVATION OF VIEWPOINT POSITION (ft): 429.2 (NAVD 88)
HEIGHT OF CAMERA ABOVE GROUND (ft): 5.4
DATE OF PHOTOGRAPHY: 24-Jan-2014 at 02:00 pm
ORIENTATION OF VIEW: WSW
HORIZONTAL FIELD OF VIEW: 124°
STRUCTURE TYPE: Galvanized Steel Pole
APPROX AVERAGE HEIGHT (ft): 85
WIDTH AT CROSSARM (ft): 35
WIDTH AT BASE (ft): 3.3
RIGHT OF WAY WIDTH (ft): 100

Photosimulation Created Using TrueView™ Technology (Patent No.: US 8,184,906 B2)
Provided by www.truescape.com
Viewpoint 20 - Auburn Historic District - Looking West South West - Proposed View - Tower Overlay

EASTING POSITION (NAD 83): 11707835.4
NORTHING POSITION (NAD 83): 6947667.0
ELEVATION OF VIEWPOINT POSITION (ft): 429.2 (NAVD 88)
HEIGHT OF CAMERA ABOVE GROUND (ft): 5.4
DATE OF PHOTOGRAPHY: 24-Jan-2014 at 02:00 pm
ORIENTATION OF VIEW: WSW
HORIZONTAL FIELD OF VIEW: 124°
STRUCTURE TYPE: Galvanized Steel Pole
APPROX AVERAGE HEIGHT (ft): 85
WIDTH AT CROSSARM (ft): 35
WIDTH AT BASE (ft): 3.3
RIGHT OF WAY WIDTH (ft): 100

NOTES:
Viewpoint locations have been precision surveyed by Dominion Virginia Power Coordinator - Survey Services Larry Hedblom, L.S.
701 East Cary Street
Richmond, Va. 23219
No part of this photosimulation shall be altered in any way.
Visual Assessments should be made from the full size TrueView™ only.

For on-screen display:
Scale bar to be 4 inches (101.6 mm) wide
Viewing distance 19.7 inches (500 mm)
APPENDIX C: POLE SCHEMATICS
REMITON CT - WARRENTON JUNCTION

EXISTING 115KV CIRCUIT (LINE #6)  EXISTING 230KV CIRCUIT (LINE #2086)

47'-0"

EXISTING MAINTENANCE LIMITS  EXISTING MAINTENANCE LIMITS

60 FEET  60 FEET
120 FEET

EXISTING CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD WARRENTON

TYPE OF STRUCTURE: STEEL POLE
FOUNDATION : CONCRETE
APPROXIMATE AVERAGE HEIGHT: 94 FEET
WIDTH AT CROSSARM: 26 FEET
WIDTH AT BASE: 5 FEET
APPROX. AVERAGE SPAN LENGTH: 405 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 120 FEET
APPROXIMATE LENGTH OF LINE : 0.61 MILES
REMINGTON CT - WARRENTON JUNCTION

EXISTING PROPOSED PROPOSED
115KV CIRCUIT 230KV CIRCUIT 230KV CIRCUIT
(LINE #6) (LINE #2086) (LINE #2155)

EXISTING MAINTENANCE LIMITS

PROPOSED MAINTENANCE LIMITS

EXISTING MAINTENANCE LIMITS

PROPOSED CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD WARRENTON

TYPE OF STRUCTURE: STEEL POLE
FOUNDATION : CONCRETE
APPROXIMATE AVERAGE HEIGHT: 101 FEET
WIDTH AT CROSSARM: 26 FEET
WIDTH AT BASE: 5 FEET
APPROX. AVERAGE SPAN LENGTH: 412 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 180 FEET
APPROXIMATE LENGTH OF LINE : 0.61 MILES
WARRENTON JUNCTION - Str No 2086/51

EXISTING 230KV CIRCUIT
(LINE #2086)

EXISTING CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD WARRENTON

- **TYPE OF STRUCTURE:** CONCRETE POLE
- **FOUNDATION:** DIRECT BURIED
- **APPROXIMATE AVERAGE HEIGHT:** 83 FEET
- **WIDTH AT CROSSARM:** 26 FEET
- **WIDTH AT BASE:** 2 FEET
- **APPROX. AVERAGE SPAN LENGTH:** 585 FEET
- **CONDUCTOR TYPE:** ALUMINUM
- **RIGHT OF WAY WIDTH:** 100 FEET
- **APPROXIMATE LENGTH OF LINE:** 5.10 MILES
WARRENTON JUNCTION - Str No 2086/51

EXISTING 230KV CIRCUIT (LINE #2086)  PROPOSED 230KV CIRCUIT (LINE #2155)

PROPOSED CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD WARRENTON

TYPE OF STRUCTURE: STEEL POLE
FOUNDATION: CONCRETE
APPROXIMATE AVERAGE HEIGHT: 107 FEET
WIDTH AT CROSSARM: 26 FEET
WIDTH AT BASE: 5 FEET
APPROX. AVERAGE SPAN LENGTH: 585 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE: 5.10 MILES
EXISTING CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD WARRENTON

TYPE OF STRUCTURE: H-FRAME
FOUNDATION: DIRECT BURIED
APPROXIMATE AVERAGE HEIGHT: 58.4 FEET
WIDTH AT CROSSARM: 42 FEET
WIDTH AT BASE: 22 FEET
APPROX. AVERAGE SPAN LENGTH: 389 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE: 0.81 MILES
Str No 2086/51 - Str No 2086/62

EXISTING 230KV CIRCUIT (LINE #2086)  PROPOSED 230KV CIRCUIT (LINE #2155)

EXISTING R/W  EXISTING R/W

50 FEET   50 FEET

100 FEET

PROPOSED CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD WARRENTON

TYPE OF STRUCTURE: STEEL POLE
FOUNDATION: CONCRETE
APPROXIMATE AVERAGE HEIGHT: 104 FEET
WIDTH AT CROSSARM: 26 FEET
WIDTH AT BASE: 5 FEET
APPROX. AVERAGE SPAN LENGTH: 714 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE: 0.81 MILES
Str No 2086/62 - WARRENTON

EXISTING
230KV CIRCUIT
(LINE #2086)

EXISTING CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD WARRENTON

TYPE OF STRUCTURE: CONCRETE POLE
FOUNDATION: DIRECT BURIED
APPROXIMATE AVERAGE HEIGHT: 82 FEET
WIDTH AT CROSSARM: 26 FEET
WIDTH AT BASE: 2 FEET
APPROX. AVERAGE SPAN LENGTH: 556 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE: 5.37 MILES
Str No 2086/62 - WARRENTON

EXISTING 230KV CIRCUIT (LINE #2086)

PROPOSED 230KV CIRCUIT (LINE #2155)

PROPOSED CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD WARRENTON

TYPE OF STRUCTURE: STEEL POLE
FOUNDATION : CONCRETE
APPROXIMATE AVERAGE HEIGHT: 106 FEET
WIDTH AT CROSSARM: 26 FEET
WIDTH AT BASE: 5 FEET
APPROX. AVERAGE SPAN LENGTH: 556 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE : 5.37 MILES
WHEELER - DAM JUNCTION

EXISTING NOVEC
115KV CIRCUIT
(LINE #922)

EXISTING CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD DAM JUNCTION

- TYPE OF STRUCTURE: CONCRETE
- FOUNDATION: DIRECT BURIED
- APPROXIMATE AVERAGE HEIGHT: 98 FEET
- WIDTH AT CROSSARM: 24 FEET
- WIDTH AT BASE: 2 FEET
- APPROX. AVERAGE SPAN LENGTH: 597 FEET
- CONDUCTOR TYPE: ALUMINUM
- RIGHT OF WAY WIDTH: 100 FEET
- APPROXIMATE LENGTH OF LINE: 2.03 MILES
WHEELER - DAM JUNCTION

PROPOSED 230KV CIRCUIT (LINE #2161)  PROPOSED 230KV CIRCUIT (LINE #2174)

EXISTING R/W  EXISTING R/W
50 FEET  50 FEET
100 FEET

PROPOSED CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD DAM JUNCTION

TYPE OF STRUCTURE: STEEL POLE
FOUNDATION: CONCRETE
APPROXIMATE AVERAGE HEIGHT: 110 FEET
WIDTH AT CROSSARM: 26 FEET
WIDTH AT BASE: 5 FEET
APPROX. AVERAGE SPAN LENGTH: 595 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE: 2.03 MILES
DAM JUNCTION - WELLINGTON ROAD

EXISTING
115KV CIRCUIT
(LINE #922)

EXISTING CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD GAINESVILLE

TYPE OF STRUCTURE: CONCRETE
FOUNDATION: DIRECT BURIED
APPROXIMATE AVERAGE HEIGHT: 94 FEET
WIDTH AT CROSSARM: 24 FEET
WIDTH AT BASE: 2 FEET
APPROX. AVERAGE SPAN LENGTH: 573 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE: 3.26 MILES
DAM JUNCTION - WELLINGTON ROAD

PROPOSED 230KV CIRCUIT (LINE #2161)

PROPOSED CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD GAINESVILLE

TYPE OF STRUCTURE: CONCRETE
FOUNDATION: DIRECT BURIED
APPROXIMATE AVERAGE HEIGHT: 94 FEET
WIDTH AT CROSSARM: 24 FEET
WIDTH AT BASE: 2 FEET
APPROX. AVERAGE SPAN LENGTH: 573 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE: 3.26 MILES
WELLINGTON ROAD - GAINESVILLE

EXISTING
115KV CIRCUIT
(LINE #922)

EXISTING CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD GAINESVILLE

TYPE OF STRUCTURE: STEEL POLE
FOUNDATION: CONCRETE
APPROXIMATE AVERAGE HEIGHT: 121 FEET
WIDTH AT CROSSARM: 24 FEET
WIDTH AT BASE: 3.5 FEET
APPROX. AVERAGE SPAN LENGTH: 700 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE: 0.80 MILES
WELLINGTON ROAD - GAINESVILLE

PROPOSED 230KV CIRCUIT (LINE #2161)

PROPOSED CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD GAINESVILLE

TYPE OF STRUCTURE: STEEL POLE
FOUNDATION: CONCRETE
APPROXIMATE AVERAGE HEIGHT: 121 FEET
WIDTH AT CROSSARM: 24 FEET
WIDTH AT BASE: 3.5 FEET
APPROX. AVERAGE SPAN LENGTH: 700 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE: 0.80 MILES
GAINESVILLE - Str No 535/32

EXISTING LINE 535
EXISTING LINE 124

EXISTING LINE 569
EXISTING LINE 2030

EXISTING CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD LOUDOUN

TYPE OF STRUCTURE: STEEL H-FRAME
FOUNDATION: CONCRETE
APPROXIMATE AVERAGE HEIGHT: 120 FEET
WIDTH AT CROSSARM: 90 FEET
WIDTH AT BASE: 31 FEET
APPROX. AVERAGE SPAN LENGTH: 854 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT-OF-WAY WIDTH: 240 FEET
APPROXIMATE LENGTH OF LINE: 2.43 MILES
GAINESVILLE - Str No 535/32

EXISTING LINE 535
PROPOSED LINE 2161

EXISTING LINE 569
EXISTING LINE 2030

39 FEET

EXISTING R/W

70 FEET
100 FEET
70 FEET

240 FEET

PROPOSED CONFIGURATION

TYPICAL RIGHT OF WAY LOOKING TOWARD LOUDOUN

TYPE OF STRUCTURE: STEEL H-FRAME
FOUNDATION: CONCRETE
APPROXIMATE AVERAGE HEIGHT: 120 FEET
WIDTH AT CROSSARM: 90 FEET
WIDTH AT BASE: 31 FEET
APPROX. AVERAGE SPAN LENGTH: 854 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT-OF-WAY WIDTH: 240 FEET
APPROXIMATE LENGTH OF LINE: 2.43 MILES
Str No 535/32 - LOUDOUN

Existing Line 535          Existing Line 569
Existing Line 124          Existing Line 2030

Existing R/W

41 FEET

70 FEET  100 FEET  70 FEET

240 FEET

Existing Configuration
Typical Right of Way Looking Toward Loudoun

Type of Structure: Lattice Steel Tower
Foundation: Concrete
Approximate Average Height: 130 Feet
Width at Crossarm: 84 Feet
Width at Base: 40 Feet
Approx. Average Span Length: 1012 Feet
Conductor Type: Aluminum
Right of Way Width: 240 Feet
Approximate Length of Line: 5.22 Miles
Str No 535/32 - LOUDOUN

EXISTING
LINE 535
PROPOSED
LINE 2161

EXISTING
LINE 569
EXISTING
LINE 2030

41 FEET

EXISTING
R/W

100 FEET

70 FEET

240 FEET

EXISTING
R/W

PROPOSED CONFIGURATION

TYPICAL RIGHT OF WAY LOOKING TOWARD LOUDOUN

TYPE OF STRUCTURE: LATTICE STEEL TOWER
FOUNDATION: CONCRETE
APPROXIMATE AVERAGE HEIGHT: 130 FEET
WIDTH AT CROSSARM: 84 FEET
WIDTH AT BASE: 40 FEET
APPROX. AVERAGE SPAN LENGTH: 1012 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 240 FEET
APPROXIMATE LENGTH OF LINE: 5.22 MILES
DAM JUNCTION - VINT HILL

FUTURE
230KV CIRCUIT

PROPOSED
230KV CIRCUIT
(LINE #2174)

PROPOSED CONFIGURATION
TYPICAL RIGHT OF WAY LOOKING TOWARD VINT HILL

TYPE OF STRUCTURE: STEEL POLE
FOUNDATION: CONCRETE
APPROXIMATE AVERAGE HEIGHT: 110 FEET
WIDTH AT CROSSARM: 26 FEET
WIDTH AT BASE: 5 FEET
APPROX. AVERAGE SPAN LENGTH: 635 FEET
CONDUCTOR TYPE: ALUMINUM
RIGHT OF WAY WIDTH: 100 FEET
APPROXIMATE LENGTH OF LINE: 3.49 MILES