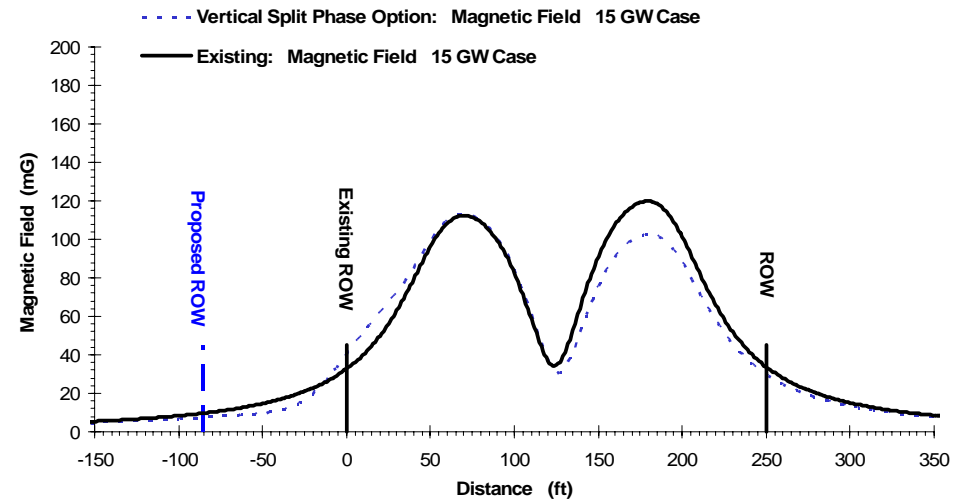
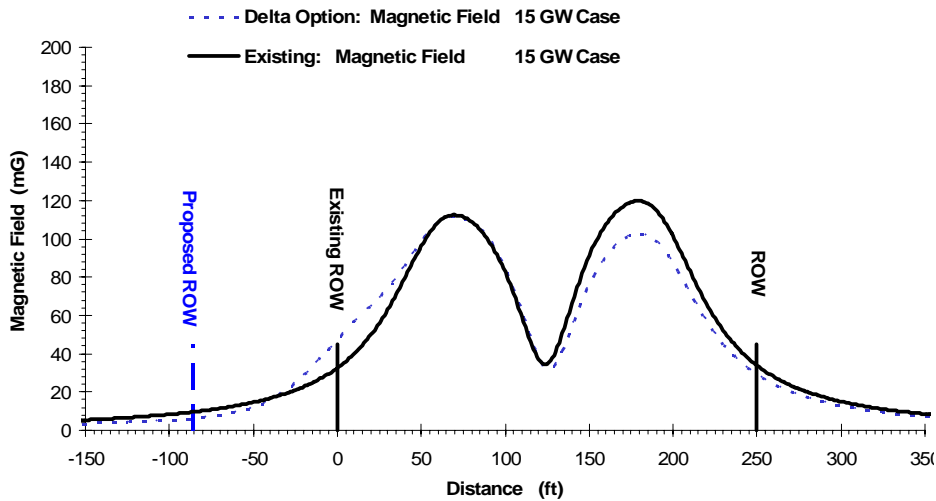


Cross Section 1 (15GW Case)

Typical Segment – Scovill Rock S/S to Chestnut Junction in the City of Middletown

		Transmission ROW																											
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	100'	50'	Center	50'	100'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'		
Existing Lines (For Reference)	5.4	6.1	7.0	8.0	9.2	10.9	12.9	15.7	19.4	24.8	32.6	12.9	27.0	79.2	99.1	66.7	33.8	25.6	20.0	16.1	13.3	11.1	9.5	8.1	7.1	6.2	5.5		
0 Proposed Lines on Existing ROW (For Reference)	4.0	4.4	4.9	5.5	6.3	7.2	8.4	9.9	11.9	14.7	18.6	45.5	59.2	105.4	35.0	102.3	30.1	22.9	18.1	14.6	12.1	10.2	8.7	7.5	6.6	5.8	5.2		
		OPTIONS																											
1 345 kV Delta (optimized height & phasing)	2.1	2.3	2.5	2.7	3.0	3.3	3.7	4.1	4.6	5.3	6.2	31.0	77.0	106.7	39.4	102.1	28.8	21.8	17.0	13.7	11.2	9.4	8.0	6.9	6.0	5.2	4.6		
3 Vertical 345 kV Split Phase	2.8	3.0	3.3	3.6	4.0	4.4	4.9	5.4	6.1	6.8	7.5	22.0	75.8	107.2	37.9	102.3	29.6	22.5	17.7	14.2	11.7	9.9	8.4	7.2	6.3	5.6	4.9		

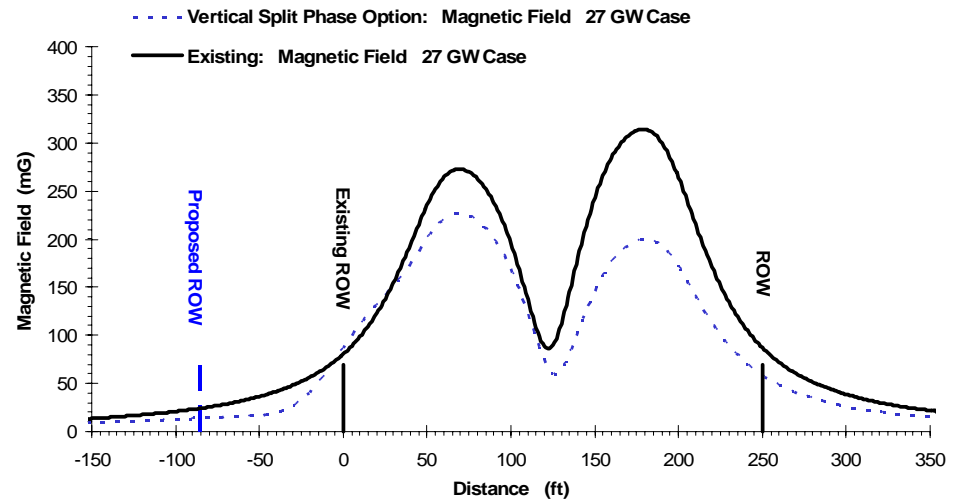
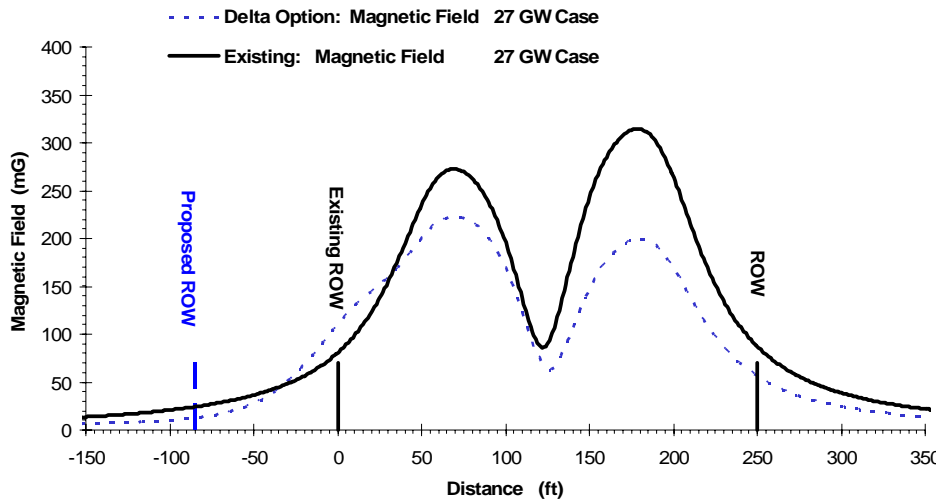


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 1 (27GW Case)

Typical Segment – Scovill Rock S/S to Chestnut Junction in the City of Middletown

		Transmission ROW																										
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	100'	50'	Center	50'	100'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'	
Existing Lines (For Reference)	13.6	15.3	17.4	19.9	23.1	27.0	32.2	39.0	48.2	61.3	80.6	32.2	66.9	194.3	237.7	180.7	87.2	65.9	51.5	41.4	34.0	28.5	24.2	20.8	18.1	15.9	14.1	
Proposed Lines on Existing ROW (For Reference)	8.6	9.6	10.8	12.2	13.9	16.1	18.9	22.5	27.3	34.0	43.6	121.4	123.9	210.1	65.1	199.2	59.0	45.1	35.6	28.9	23.9	20.2	17.3	15.0	13.1	11.6	10.3	
		OPTIONS																										
1	345 kV Delta (optimized height & phasing)	3.9	4.2	4.6	5.0	5.5	6.0	6.7	7.6	8.7	10.3	12.7	73.5	163.8	213.3	76.5	198.7	55.7	42.0	32.8	26.3	21.6	18.0	15.3	13.2	11.4	10.0	8.9
3	Vertical 345 kV Split Phase	5.4	5.9	6.5	7.1	7.8	8.6	9.4	10.4	11.5	12.7	13.9	45.8	157.0	214.5	72.6	199.0	57.9	43.9	34.5	27.8	22.9	19.3	16.4	14.2	12.4	10.9	9.7

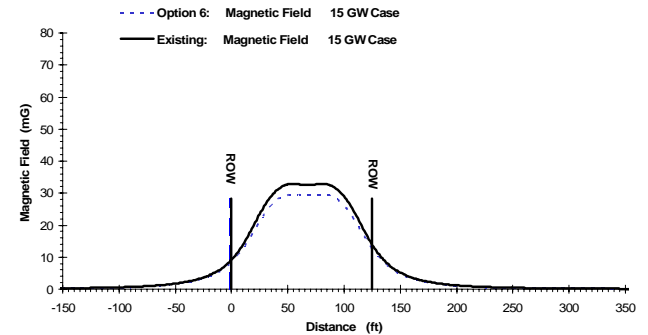
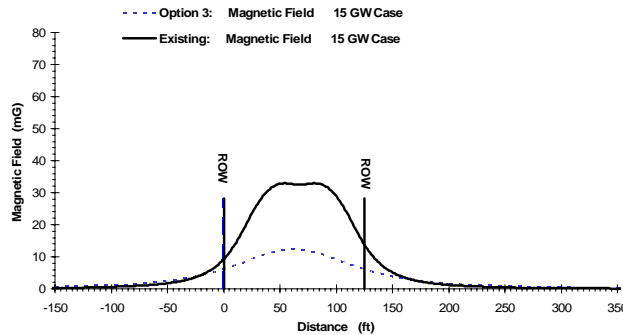
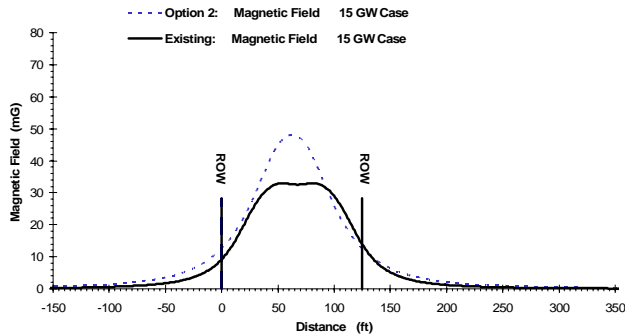


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 2 (15GW Case)

Typical Segment – Oxbow Junction to Besock S/S in the Municipalities of Haddam, Durham, Middlefield, Wallingford & Middletown

		Transmission ROW																										
Site Condition		150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)		0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	3.1	5.2	9.2	15.6	30.2	32.6	32.5	21.5	13.9	7.5	4.3	2.7	1.7	1.2	0.9	0.6	0.5	0.4	0.3
0 Proposed Lines on Existing ROW (For Reference)		3.6	4.2	4.9	5.7	6.9	8.4	10.3	13.1	16.9	22.3	30.4	40.4	69.0	79.8	46.9	22.8	17.1	12.6	9.8	7.8	6.4	5.4	4.5	3.9	3.4	3.0	2.6
OPTIONS																												
2 345 kV Split Phase Centered on ROW - 115 kV line Underground in Street		0.7	0.8	1.0	1.3	1.6	2.1	2.9	4.0	5.6	8.2	12.4	18.2	36.4	48.1	35.5	17.7	12.4	8.2	5.6	4.0	2.9	2.1	1.6	1.3	1.0	0.8	0.7
3 345 kV Split Phase Centered on ROW with additional 30' in height - 115 kV line Underground in Street		0.6	0.7	0.9	1.1	1.3	1.7	2.1	2.7	3.6	4.7	6.2	7.7	10.8	12.3	10.7	7.6	6.2	4.7	3.6	2.7	2.1	1.7	1.3	1.1	0.9	0.7	0.6
6 New 345 kV ROW* (115 kV Lines Remain) EMF values are for 115kV lines		0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.8	4.6	8.3	14.0	27.1	29.3	29.1	19.3	12.4	6.8	3.9	2.4	1.6	1.1	0.8	0.6	0.4	0.3	0.3



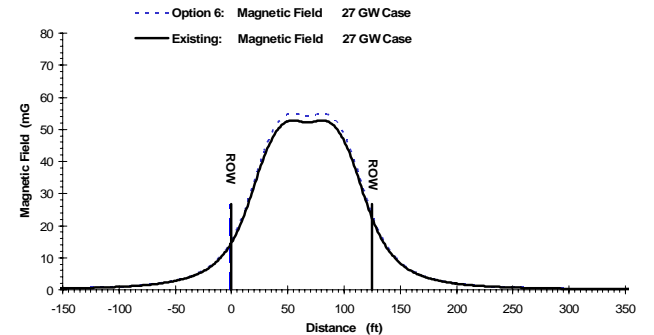
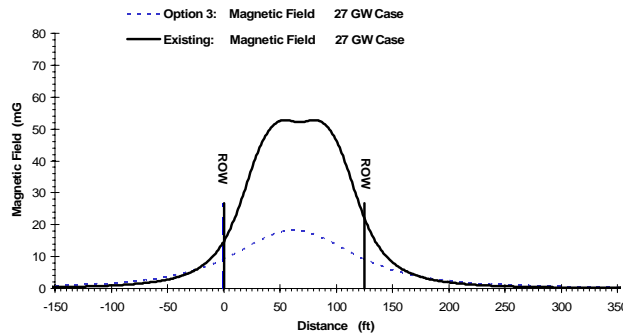
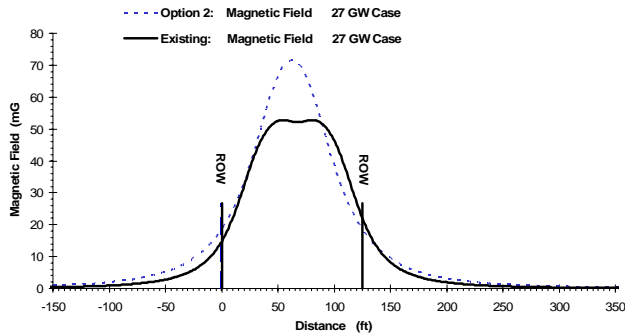
* A new 345kV ROW can be considered in specific areas, "Durham Bypass".

Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 2 (27GW Case)

Typical Segment – Oxbow Junction to Beseck S/S in the Municipalities of Haddam, Durham, Middlefield, Wallingford & Middletown

		Transmission ROW																											
Site Condition		150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'	
Existing Lines (For Reference)		0.4	0.5	0.7	0.9	1.1	1.5	2.2	3.2	5.0	8.3	14.8	25.0	48.3	52.3	52.0	34.5	22.2	12.1	6.9	4.3	2.8	1.9	1.4	1.0	0.8	0.6	0.5	
0 Proposed Lines on Existing ROW (For Reference)		4.9	5.7	6.7	7.9	9.5	11.6	14.4	18.2	23.6	31.5	43.0	57.5	99.4	116.9	68.4	31.3	22.7	16.3	12.4	9.9	8.1	6.7	5.7	4.9	4.3	3.8	3.3	
		OPTIONS																											
2 345 kV Split Phase Centered on ROW - 115 kV line Underground in Street		1.0	1.2	1.5	1.9	2.4	3.2	4.3	5.9	8.3	12.2	18.5	27.0	54.0	71.4	52.8	26.2	18.5	12.2	8.3	5.9	4.3	3.2	2.4	1.9	1.5	1.2	1.0	
3 345 kV Split Phase Centered on ROW with additional 30' in height - 115 kV line Underground in Street		0.9	1.0	1.3	1.6	1.9	2.5	3.1	4.1	5.3	7.0	9.1	11.4	16.1	18.3	15.9	11.2	9.1	7.0	5.3	4.1	3.1	2.5	1.9	1.6	1.3	1.0	0.9	
6 New 345 kV ROW* (115 kV Lines Remain) EMF values are for 115kV lines		0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.3	5.2	8.6	15.4	26.0	50.3	54.4	54.1	35.8	23.1	12.6	7.2	4.4	2.9	2.0	1.4	1.1	0.8	0.6	0.5	



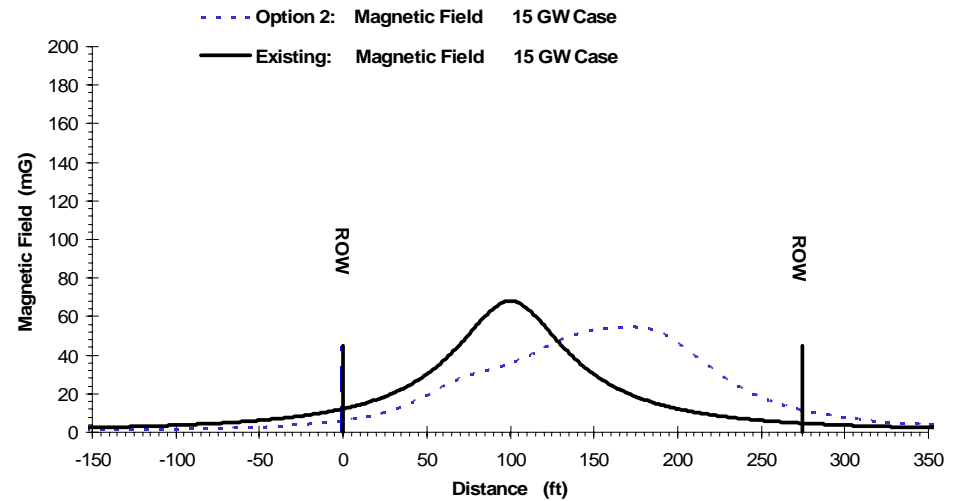
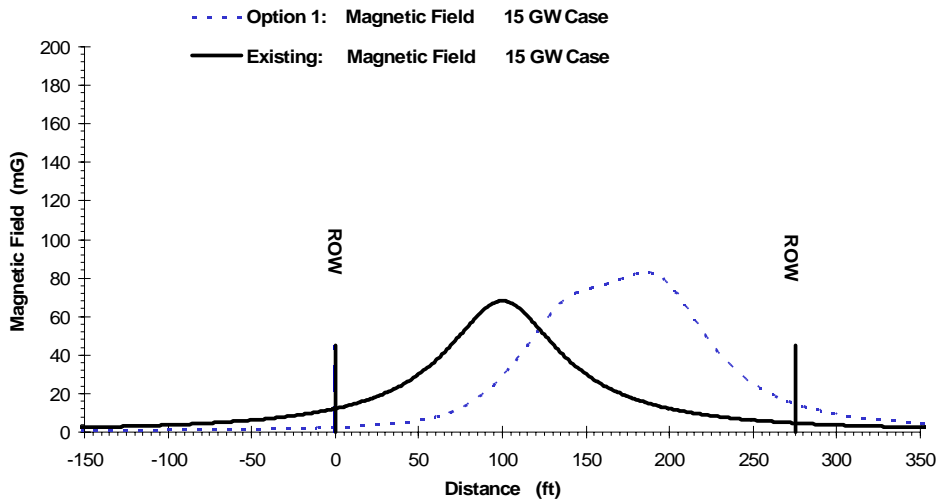
* A new 345kV ROW can be considered in specific areas, “Durham Bypass”.

Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 3 (15GW Case)

Typical Segment – Black Pond Junction to East Meriden S/S in the City of Meriden

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	2.4	2.7	3.1	3.5	4.0	4.7	5.5	6.6	7.9	9.7	12.2	62.9	62.0	38.7	23.2	14.8	4.7	4.0	3.5	3.1	2.7	2.4	2.2	2.0	1.8	1.6	1.5
0 Proposed Lines on Existing ROW (For Reference)	1.0	1.1	1.3	1.4	1.7	1.9	2.3	2.8	3.5	4.5	5.9	40.3	58.8	78.6	81.8	82.2	12.9	9.8	7.6	6.1	4.9	4.1	3.4	2.9	2.5	2.2	1.9
OPTIONS																											
1 Repositioned West Structures	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.1	2.6	19.1	42.4	69.0	76.9	82.8	14.6	11.1	8.6	6.8	5.5	4.5	3.8	3.2	2.7	2.4	2.1
2 As Proposed with strain insulators	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.9	3.6	4.6	6.1	32.5	40.4	50.4	54.5	52.3	11.4	8.9	7.1	5.7	4.7	3.9	3.3	2.8	2.4	2.1	1.8

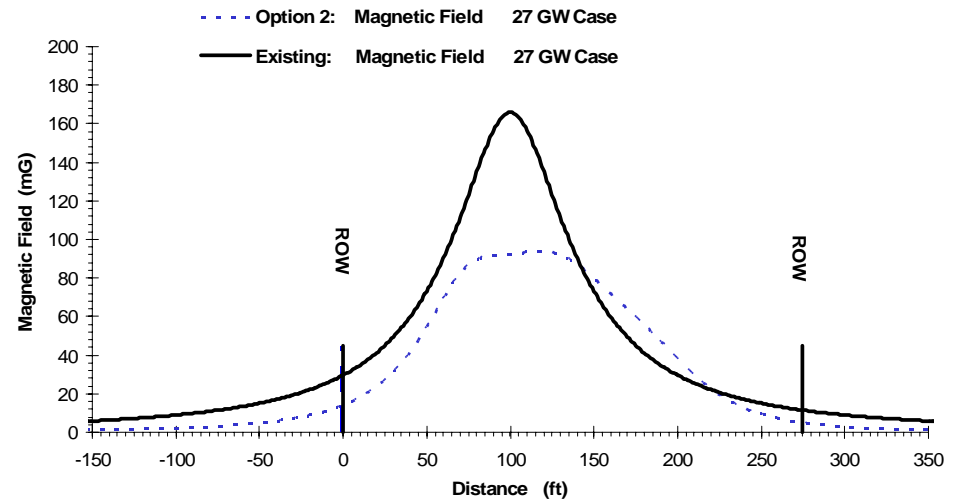
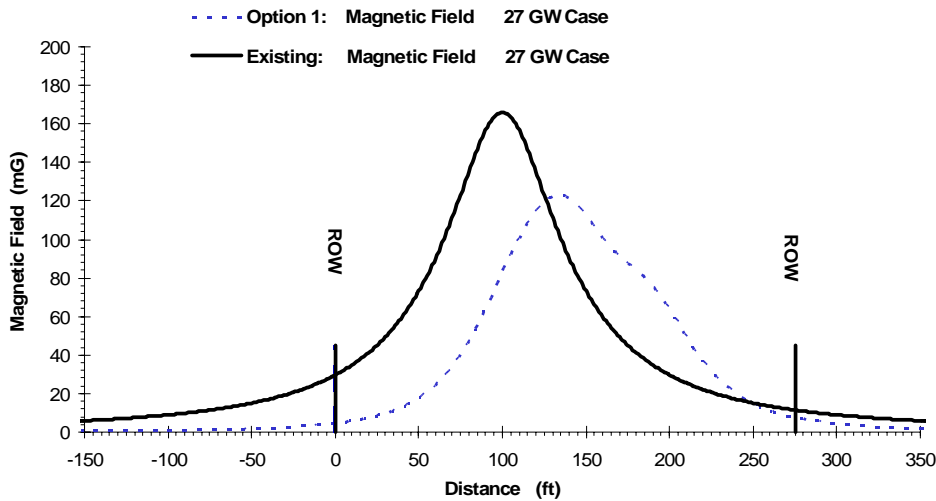


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 3 (27GW Case)

Typical Segment – Black Pond Junction to East Meriden S/S in the City of Meriden

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	5.9	6.6	7.5	8.6	9.9	11.5	13.5	16.0	19.3	23.7	29.6	153.0	151.0	94.2	56.5	36.0	11.5	9.9	8.6	7.5	6.6	5.9	5.3	4.7	4.3	3.9	3.6
0 Proposed Lines on Existing ROW (For Reference)	1.1	1.3	1.6	2.0	2.5	3.1	4.0	5.3	7.2	10.0	14.3	107.6	129.1	133.8	102.1	75.8	5.9	4.1	2.9	2.2	1.6	1.3	1.0	0.8	0.6	0.5	0.5
		OPTIONS																									
1 Repositioned West Structures	0.4	0.5	0.6	0.8	0.9	1.1	1.4	1.8	2.4	3.3	4.6	60.4	105.0	122.2	97.5	77.3	7.6	5.4	4.0	3.0	2.3	1.8	1.5	1.2	1.0	0.8	0.7
2 As Proposed with strain insulators	1.1	1.3	1.6	2.0	2.5	3.1	4.0	5.3	7.1	9.8	14.0	91.5	93.6	88.2	69.1	48.6	4.9	3.5	2.5	1.9	1.4	1.1	0.9	0.7	0.6	0.5	0.4

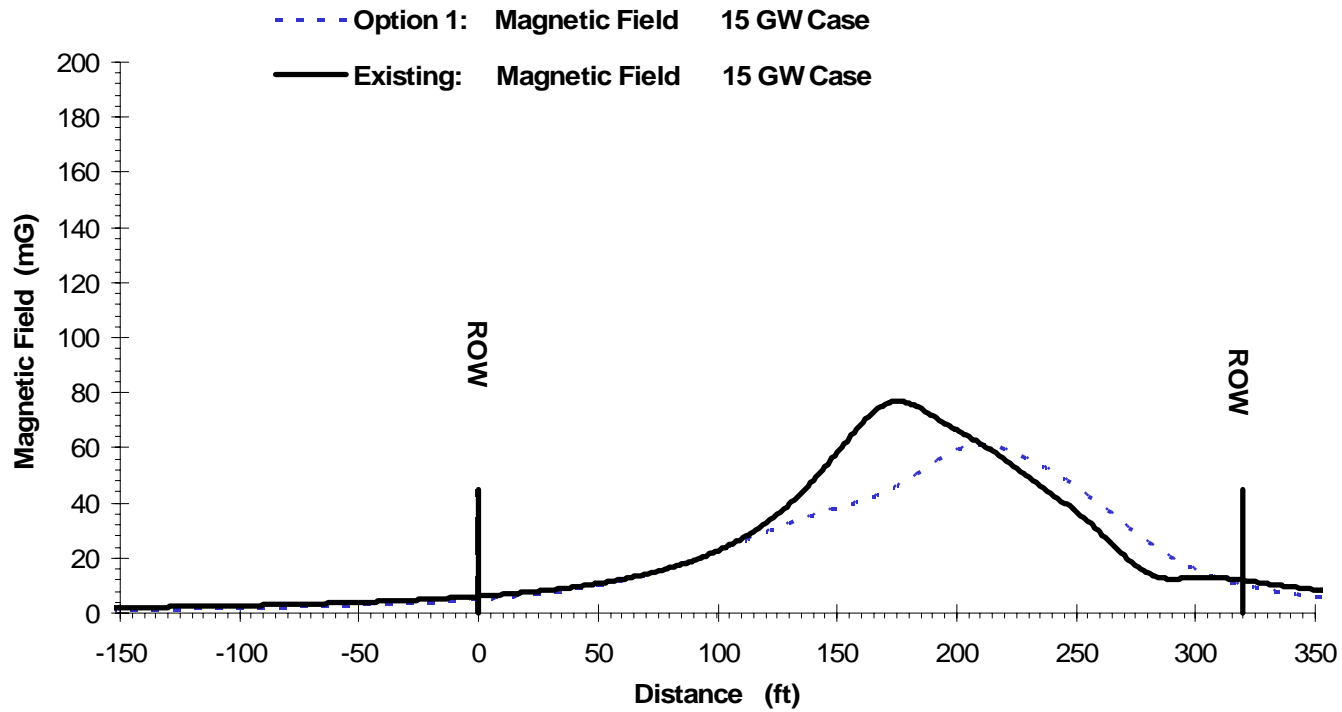


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 4 (15GW Case)

Typical Segment –East Meriden S/S to Beseck S/S in the Town of Wallingford

Site Condition	Transmission ROW																										
	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	2.0	2.2	2.4	2.6	2.9	3.2	3.6	4.1	4.6	5.3	6.1	27.0	43.6	68.6	74.2	61.5	11.9	10.1	8.5	7.2	6.1	5.3	4.6	4.1	3.6	3.2	2.9
Proposed Lines on Existing ROW (For Reference)	1.3	1.5	1.6	1.8	2.1	2.4	2.7	3.2	3.7	4.4	5.3	32.8	43.6	50.1	57.4	70.9	11.5	8.5	6.5	5.2	4.2	3.5	3.0	2.6	2.2	2.0	1.7
OPTIONS																											
As Proposed with strain insulators	1.3	1.5	1.6	1.8	2.0	2.3	2.6	3.1	3.6	4.2	5.0	25.9	33.9	40.7	51.0	61.2	10.1	7.7	6.0	4.8	4.0	3.4	2.9	2.5	2.2	1.9	1.7

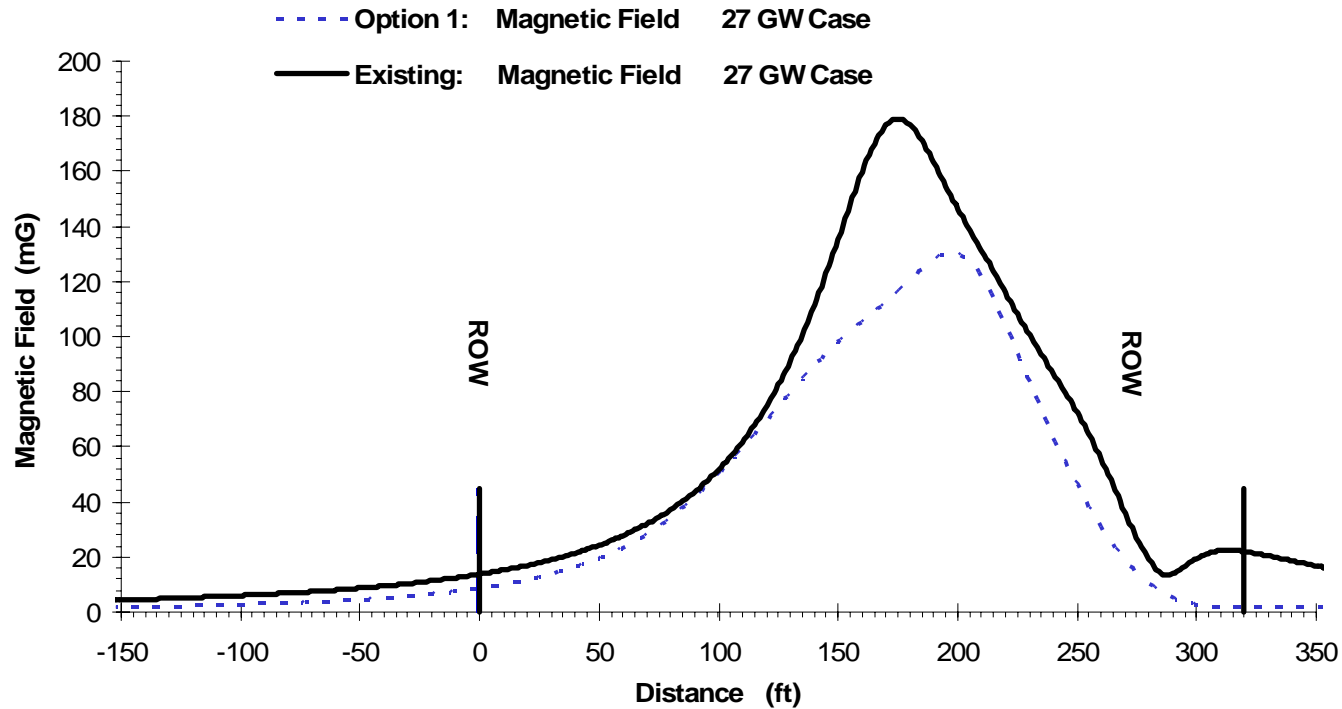


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit I to Testimony of Dr. William H. Bailey

Cross Section 4 (27GW Case)

Typical Segment –East Meriden S/S to Beseck S/S in the Town of Wallingford

Site Condition	Transmission ROW																										
	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	4.4	4.8	5.3	5.8	6.5	7.2	8.1	9.1	10.4	11.9	13.7	61.8	100.7	159.9	171.2	131.2	22.0	19.5	16.8	14.4	12.5	10.8	9.5	8.4	7.5	6.7	6.0
Proposed Lines on Existing ROW (For Reference)	1.8	2.0	2.3	2.6	3.0	3.5	4.2	5.0	6.0	7.3	9.0	73.8	108.4	129.8	137.4	130.5	3.8	3.1	2.4	1.9	1.4	1.1	0.8	0.7	0.5	0.4	0.3
OPTIONS																											
As Proposed with strain insulators	1.8	2.0	2.3	2.6	3.0	3.5	4.1	4.8	5.8	7.0	8.7	59.2	84.3	105.3	124.2	121.5	2.2	2.1	1.8	1.5	1.2	0.9	0.7	0.6	0.4	0.3	0.3

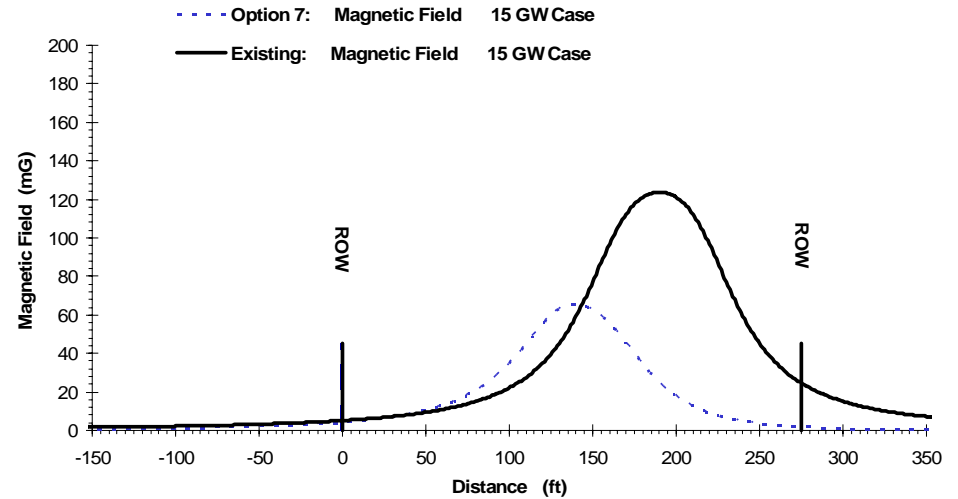
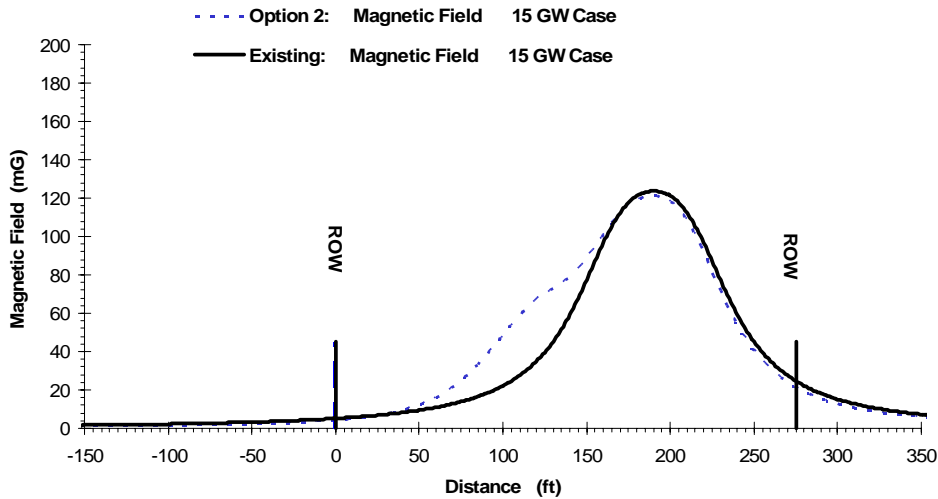


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 5 (15GW Case)

Typical Segment – Beseck S/S to East Wallingford Junction in the Town of Wallingford

Site Condition	Transmission ROW																										
	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	10'	20'	30'	40'	50'	60'	70'	80'	90'	100'
Existing Lines (For Reference)	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.9	4.5	5.2	17.5	29.5	56.1	102.0	123.7	24.7	18.2	13.9	10.9	8.8	7.3	6.1	5.2	4.5	3.9	3.4
0 Proposed Lines on Existing ROW (For Reference)	3.5	3.9	4.3	4.9	5.6	6.4	7.4	8.8	10.5	12.7	15.9	74.0	60.8	26.3	70.9	107.2	27.8	21.0	16.4	13.2	10.8	9.1	7.7	6.6	5.8	5.1	4.5
OPTIONS																											
2 345kV/Delta	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.4	2.8	3.4	4.2	35.9	61.3	77.4	104.6	121.2	21.2	15.4	11.6	9.0	7.2	5.8	4.8	4.1	3.5	3.0	2.6
6 Reconstructed ROW* (Vertical Construction)	0.9	1.0	1.1	1.2	1.4	1.7	2.0	2.3	2.8	3.5	4.3	25.5	47.8	65.6	52.7	26.4	1.9	1.3	0.9	0.7	0.5	0.4	0.4	0.3	0.3	0.3	0.3



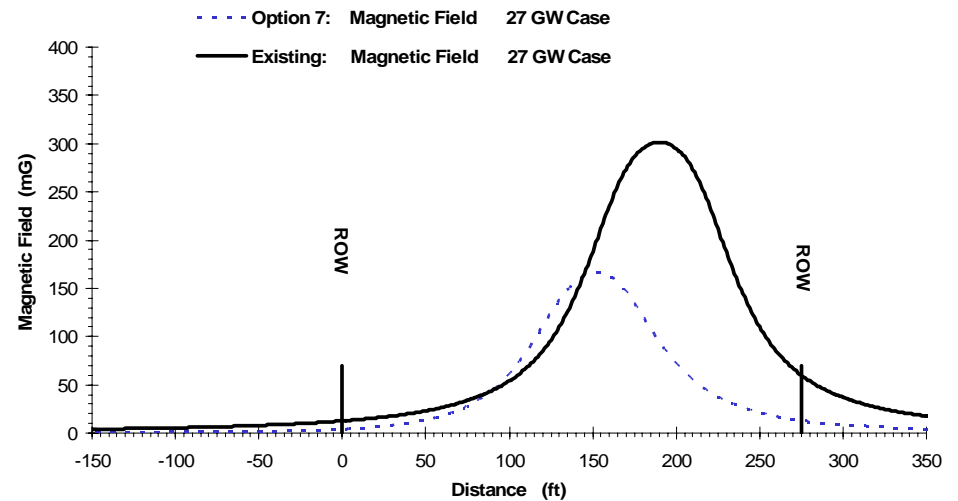
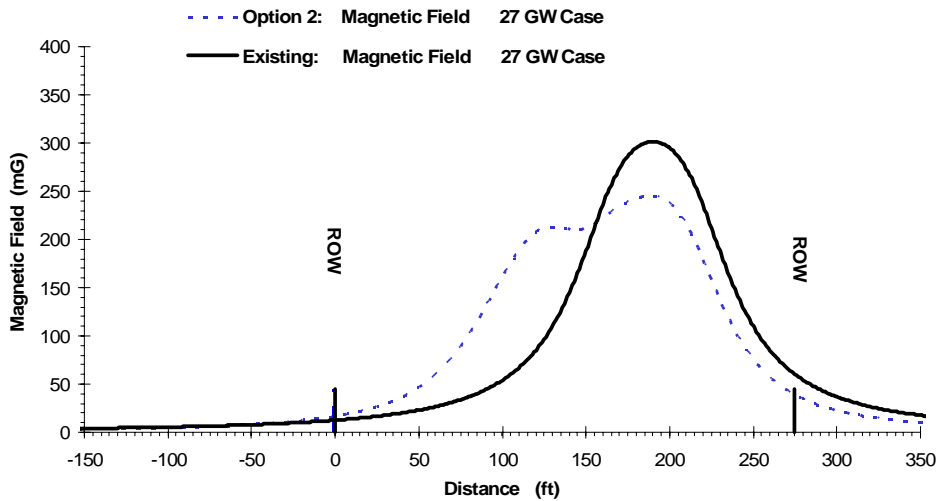
* Rebuilding of the existing 387 line could be considered in isolated areas.

Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 5 (27GW Case)

Typical Segment – Beseck S/S to East Wallingford Junction in the Town of Wallingford

Site Condition	Transmission ROW																										
	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	4.0	4.3	4.8	5.3	5.8	6.5	7.3	8.3	9.4	10.8	12.6	42.6	71.9	136.6	248.5	301.1	60.1	44.2	33.8	26.6	21.5	17.7	14.8	12.6	10.8	9.4	8.3
0 Proposed Lines on Existing ROW (For Reference)	9.9	11.0	12.4	14.1	16.1	18.6	21.8	25.9	31.2	38.4	48.5	264.7	244.1	126.6	104.5	195.8	61.3	47.1	37.3	30.3	25.1	21.2	18.1	15.7	13.7	12.1	10.8
OPTIONS																											
2 345kV/Delta	3.2	3.5	4.0	4.6	5.3	6.1	7.2	8.6	10.5	13.0	16.5	123.7	195.2	211.3	225.2	245.5	38.6	27.6	20.6	15.9	12.6	10.2	8.5	7.1	6.1	5.3	4.6
6 Reconstructed ROW* (Vertical Construction)	0.4	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.0	4.1	41.3	90.7	153.5	159.3	98.7	12.9	10.0	7.9	6.3	5.2	4.3	3.6	3.1	2.6	2.3	2.0



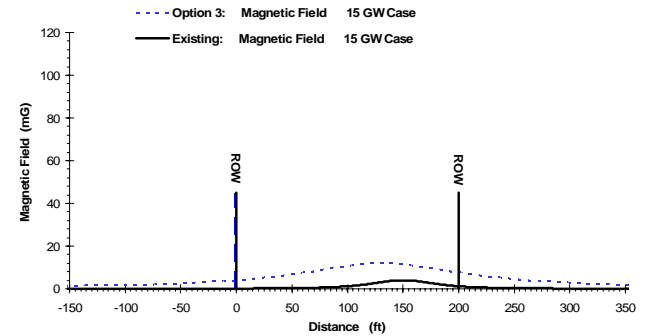
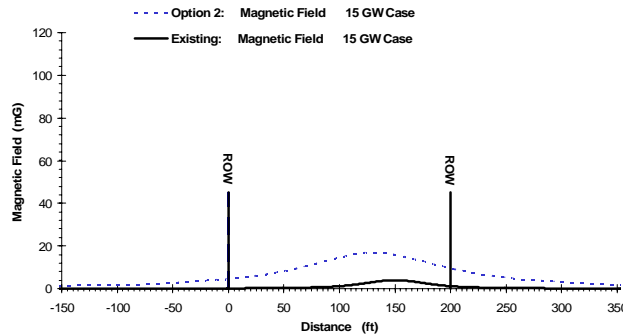
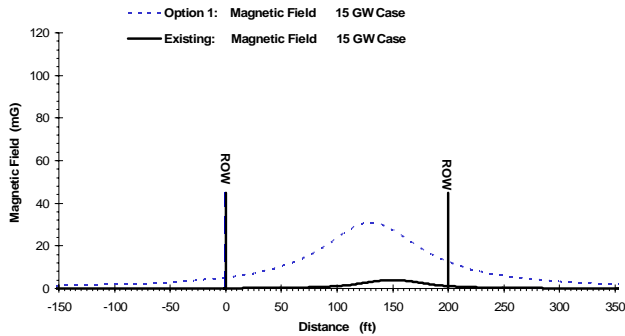
* Rebuilding of the existing 387 line could be considered in isolated areas

Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 6 (15GW Case) East Segment

Typical Segment – East Wallingford Junction to North Haven Junction in the Town of Wallingford

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.7	4.0	1.2	0.8	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1
0 Proposed Lines on Existing ROW (For Reference)	1.3	1.5	1.7	1.9	2.1	2.4	2.8	3.2	3.8	4.5	5.4	11.5	18.5	31.1	45.5	37.9	14.3	10.9	8.5	6.8	5.5	4.6	3.8	3.3	2.8	2.4	2.1
OPTIONS																											
1 Composite with strain insulator	1.3	1.5	1.6	1.8	2.1	2.3	2.7	3.1	3.6	4.3	5.1	10.3	15.6	23.6	30.6	27.3	12.5	9.8	7.8	6.3	5.2	4.4	3.7	3.2	2.7	2.4	2.1
2 As proposed additional 30' in height	1.3	1.4	1.6	1.7	2.0	2.2	2.5	2.9	3.3	3.9	4.5	8.2	11.1	14.6	16.8	15.9	9.4	7.8	6.5	5.4	4.6	3.9	3.4	2.9	2.5	2.2	2.0
3 Composite strain insulator structures additional 35' in height	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.1	3.5	4.1	6.8	8.7	10.7	11.9	11.4	7.7	6.6	5.6	4.8	4.1	3.6	3.1	2.7	2.4	2.1	1.9

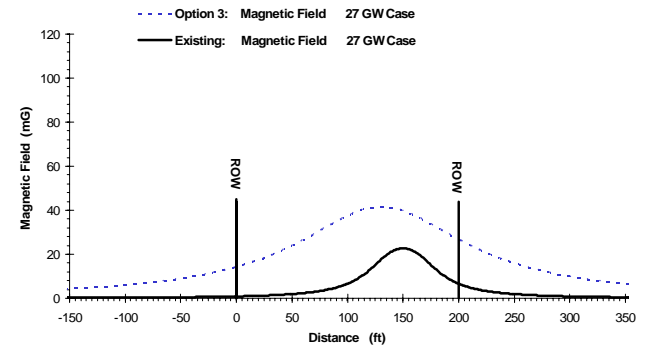
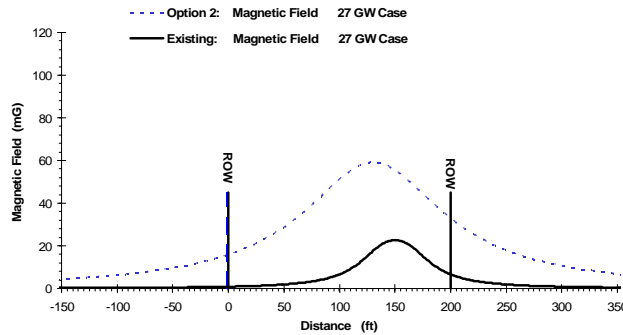
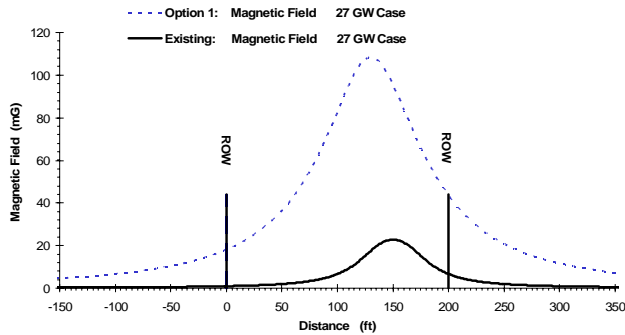


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 6 (27GW Case) East Segment

Typical Segment – East Wallingford Junction to North Haven Junction in the Town of Wallingford

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.9	1.9	3.3	6.6	15.2	22.7	6.6	4.3	2.9	2.1	1.6	1.3	1.0	0.8	0.7	0.6	0.5
0 Proposed Lines on Existing ROW (For Reference)	4.7	5.2	5.8	6.5	7.4	8.4	9.7	11.2	13.2	15.7	19.0	40.4	64.8	109.0	159.7	132.6	49.4	37.8	29.5	23.6	19.2	15.9	13.3	11.3	9.8	8.5	7.4
OPTIONS																											
1 Composite with strain insulator	4.6	5.1	5.7	6.4	7.2	8.2	9.4	10.9	12.7	15.0	17.9	36.2	54.7	82.7	107.4	95.4	43.2	34.0	27.2	22.1	18.2	15.2	12.8	11.0	9.5	8.3	7.3
2 As proposed additional 30' in height	4.4	4.9	5.5	6.1	6.8	7.7	8.8	10.0	11.6	13.5	15.8	28.6	38.9	51.0	58.8	55.4	32.8	27.2	22.6	19.0	16.0	13.6	11.7	10.1	8.8	7.8	6.9
3 Composite strain insulator structures additional 35' feet in height	4.3	4.7	5.2	5.8	6.5	7.3	8.3	9.4	10.7	12.3	14.3	23.8	30.6	37.5	41.4	39.8	26.7	22.9	19.5	16.7	14.4	12.4	10.8	9.5	8.3	7.4	6.6

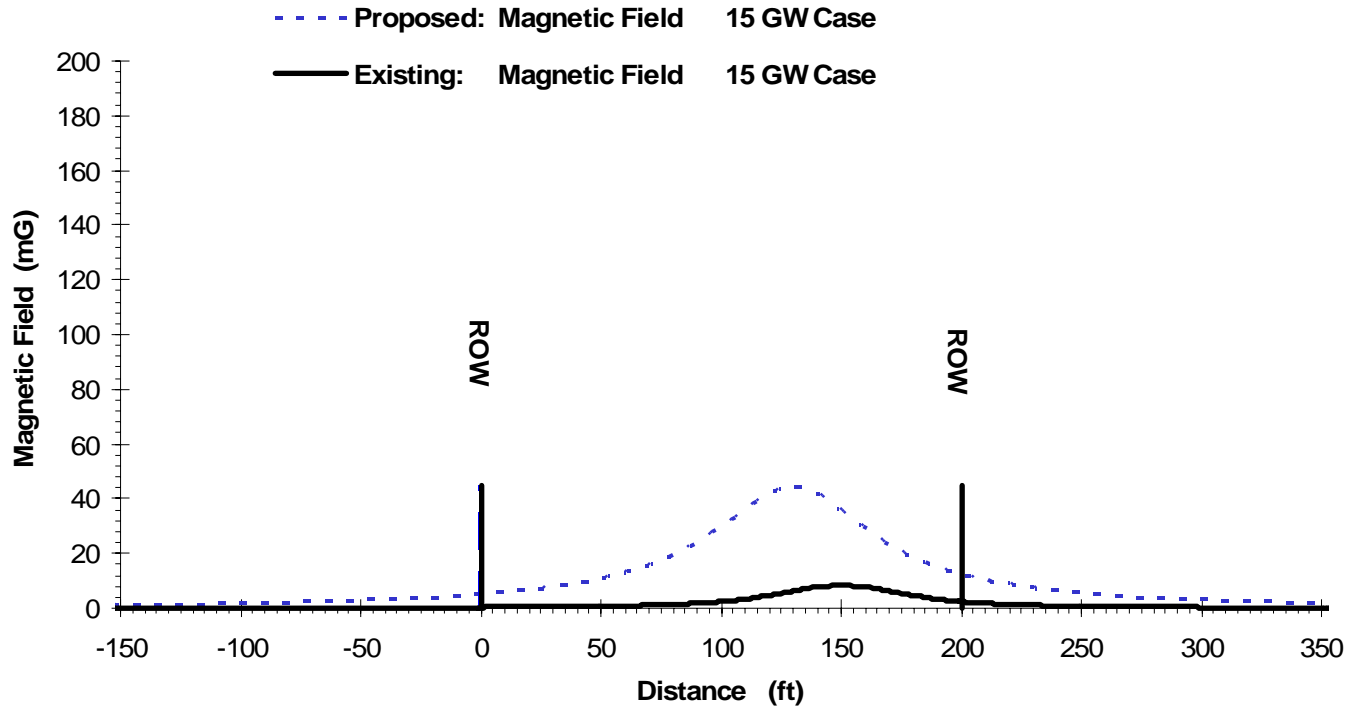


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 6 (15GW Case) West Segment

Typical Segment – North Haven Junction to Wallingford Junction in the Town of Wallingford

Site Condition	Transmission ROW																										
	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.7	1.2	2.4	5.5	8.2	2.4	1.5	1.1	0.8	0.6	0.5	0.4	0.3	0.2	0.2	0.2
Proposed Lines on Existing ROW (For Reference)	1.3	1.4	1.6	1.7	2.0	2.3	2.6	3.0	3.6	4.2	5.1	10.9	17.5	29.5	43.6	35.8	12.4	9.5	7.5	6.0	4.9	4.1	3.5	3.0	2.5	2.2	1.9

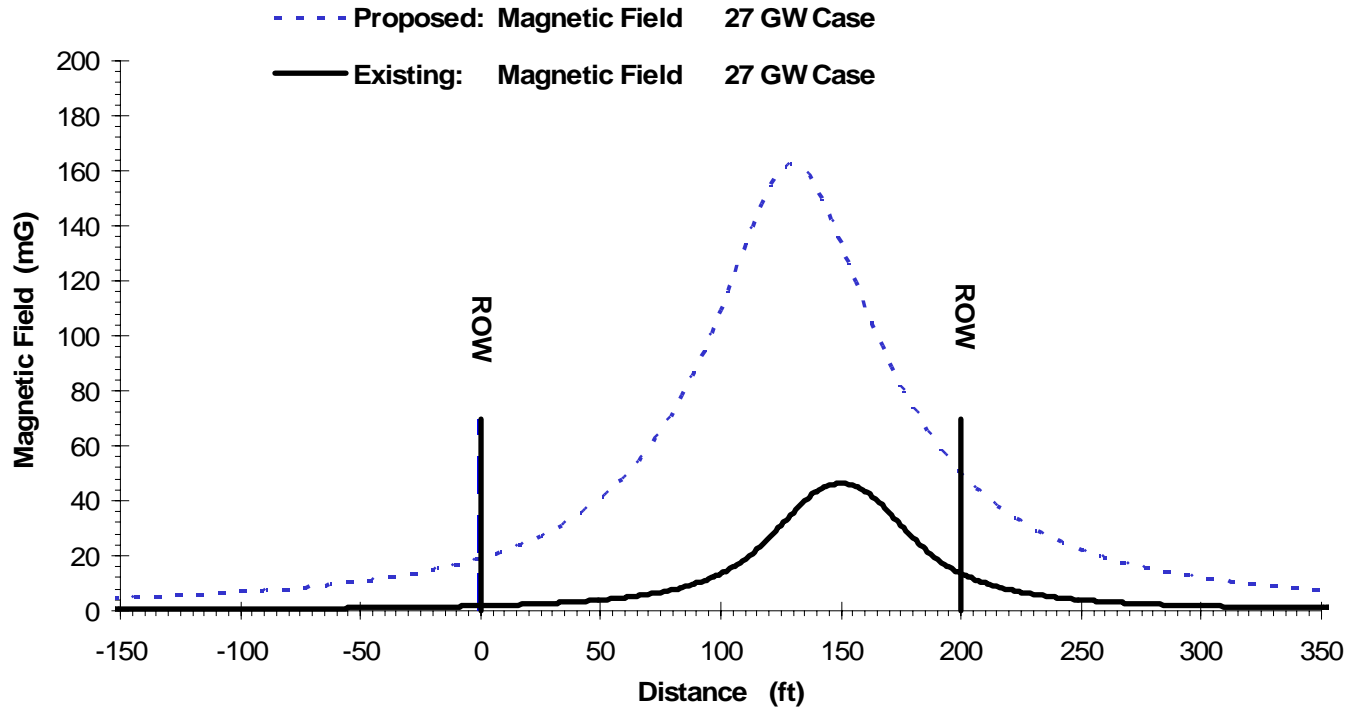


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 6 (27GW Case) West Segment

Typical Segment – North Haven Junction to Wallingford Junction in the Town of Wallingford

Site Condition	Transmission ROW																										
	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.1	1.3	1.5	1.8	4.0	6.8	13.5	31.0	46.4	13.5	8.7	6.0	4.4	3.3	2.6	2.1	1.7	1.4	1.2	1.0
Proposed Lines on Existing ROW (For Reference)	4.7	5.2	5.8	6.5	7.4	8.4	9.7	11.3	13.2	15.7	19.0	40.5	64.9	109.2	160.0	133.0	49.7	38.0	29.7	23.7	19.3	16.0	13.4	11.4	9.8	8.5	7.5

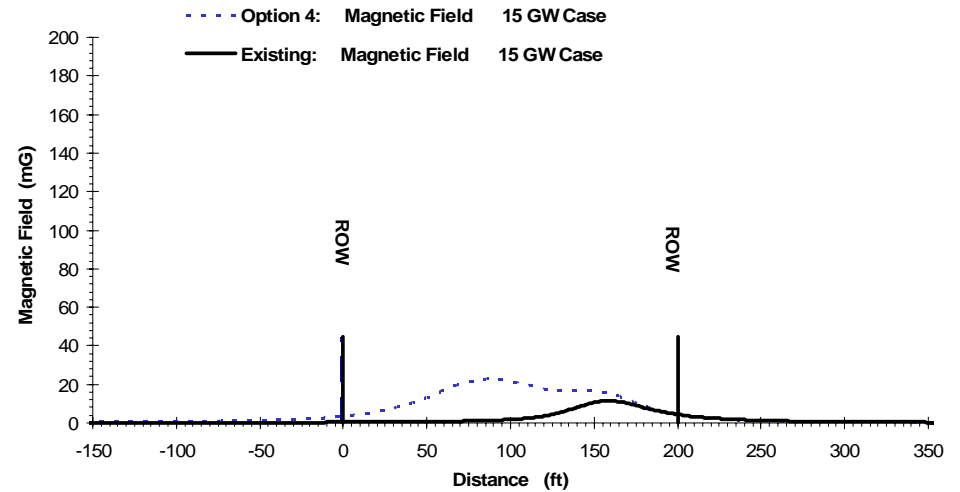
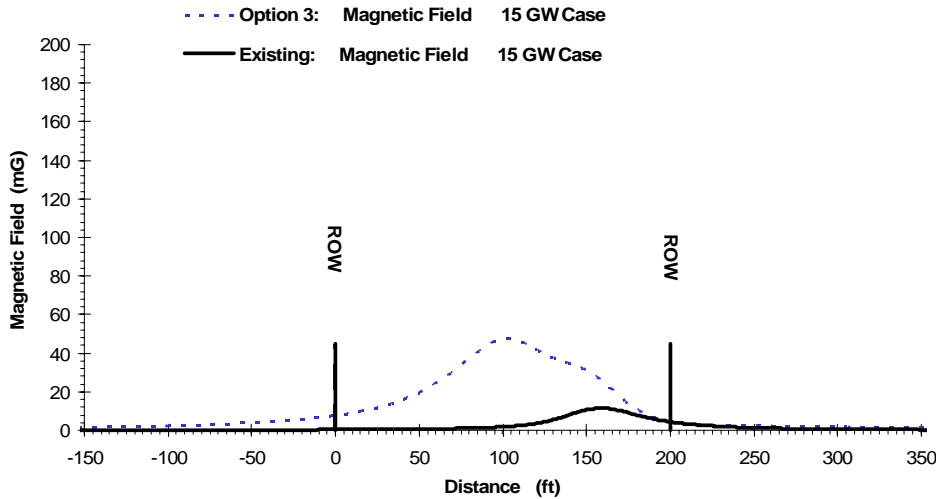


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 7 (15GW Case)

Typical Segment – Wallingford Junction to the Cheshire Town Line in the Town of Wallingford

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	N/W Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.7	1.0	1.8	4.4	10.6	4.4	2.9	2.0	1.4	1.1	0.8	0.7	0.5	0.4	0.4	0.3
0 Proposed Lines on Existing ROW (For Reference)	1.8	2.0	2.3	2.7	3.2	3.8	4.5	5.6	7.0	9.0	11.9	37.2	53.9	45.8	28.7	25.4	10.2	7.2	5.4	4.2	3.4	2.8	2.4	2.0	1.8	1.6	1.4
		OPTIONS																									
3 345 kV Vertical	1.5	1.7	1.9	2.1	2.5	2.9	3.4	4.1	4.9	6.1	7.7	19.5	33.5	47.1	39.6	31.1	4.4	3.2	2.8	2.5	2.2	2.0	1.8	1.6	1.5	1.3	1.2
4 345 kV Split Phase	0.4	0.5	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.6	3.6	13.2	21.4	21.7	16.7	16.7	4.4	2.7	1.8	1.3	1.0	0.7	0.6	0.5	0.4	0.3	0.3

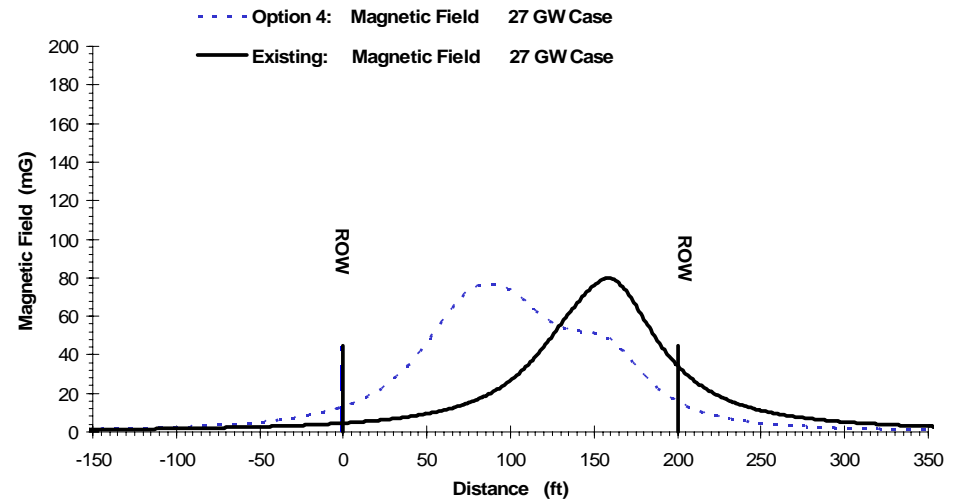
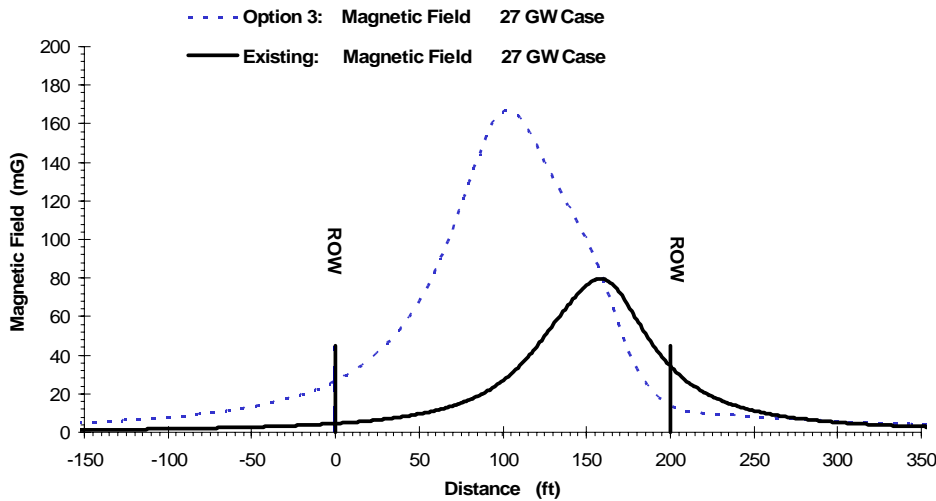


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 7 (27GW Case)

Typical Segment – Cheshire Town Line to Cook Hill Junction in the Town of Wallingford

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.8	3.3	3.9	4.6	9.5	15.2	26.8	50.0	76.2	34.3	23.4	16.6	12.3	9.4	7.4	5.9	4.9	4.1	3.4	2.9
0 Proposed Lines on Existing ROW (For Reference)	6.2	7.1	8.2	9.5	11.1	13.2	16.0	19.6	24.7	31.7	42.0	131.8	192.4	165.8	110.6	93.9	35.5	25.3	18.9	14.8	12.0	9.9	8.4	7.2	6.3	5.5	4.9
OPTIONS																											
3 345 kV Vertical	5.0	5.7	6.4	7.4	8.5	9.9	11.7	14.0	17.0	21.1	26.5	67.7	117.1	166.2	139.9	99.8	13.8	10.3	9.1	8.3	7.5	6.7	6.1	5.4	4.9	4.4	4.0
4 345 kV Split Phase	1.5	1.8	2.1	2.4	2.9	3.5	4.4	5.5	7.2	9.5	13.1	46.1	72.9	73.4	56.4	51.4	15.5	10.1	7.0	5.0	3.8	2.9	2.4	1.9	1.6	1.4	1.2

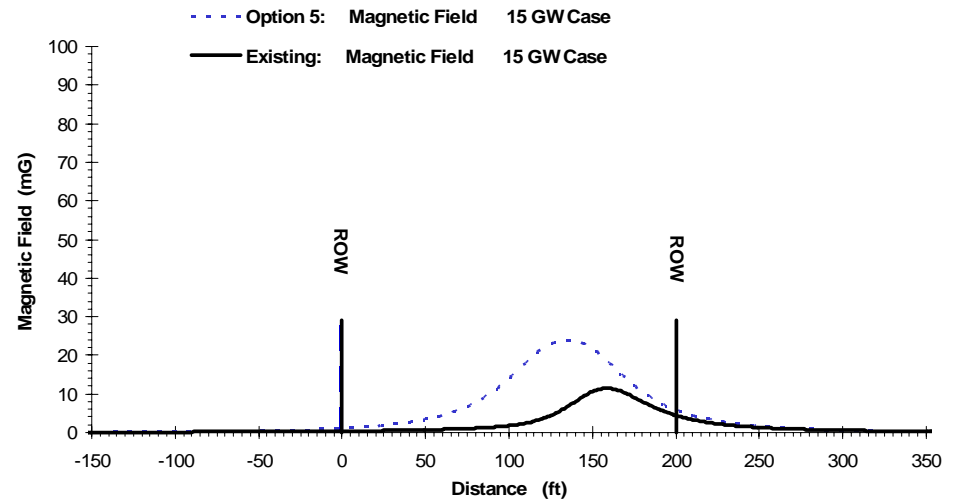
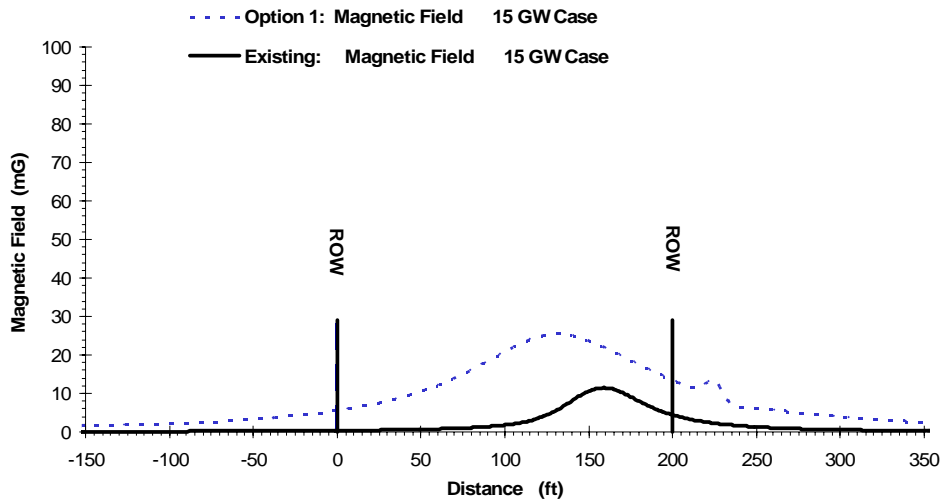


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 7B (15GW Case)

Typical Segment – Cheshire Town Line to Cook Hill Junction in the Town of Cheshire

		Transmission ROW																										
Site Condition		150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)		0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.7	1.0	1.8	4.4	10.6	4.4	2.9	2.0	1.4	1.1	0.8	0.7	0.5	0.4	0.4	0.3
0 Proposed Lines on Existing ROW (For Reference)		1.6	1.7	1.9	2.2	2.4	2.8	3.2	3.7	4.3	5.2	6.2	13.0	20.8	34.7	50.3	42.6	17.9	14.6	10.6	7.6	6.6	5.6	4.7	4.0	3.5	3.0	2.6
		OPTIONS																										
1	345 kV with added 20' - a 115 kV Line UG	1.5	1.7	1.9	2.1	2.3	2.6	3.0	3.5	4.0	4.7	5.5	10.5	14.9	20.8	25.2	23.7	13.4	11.4	9.9	6.4	5.7	4.9	4.3	3.7	3.2	2.8	2.5
2	345 kV Split-Phase Offset on ROW - 115 kV Lines UG	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	3.4	6.7	13.9	22.9	21.6	5.8	3.8	2.6	1.9	1.4	1.0	0.8	0.6	0.5	0.4	0.3

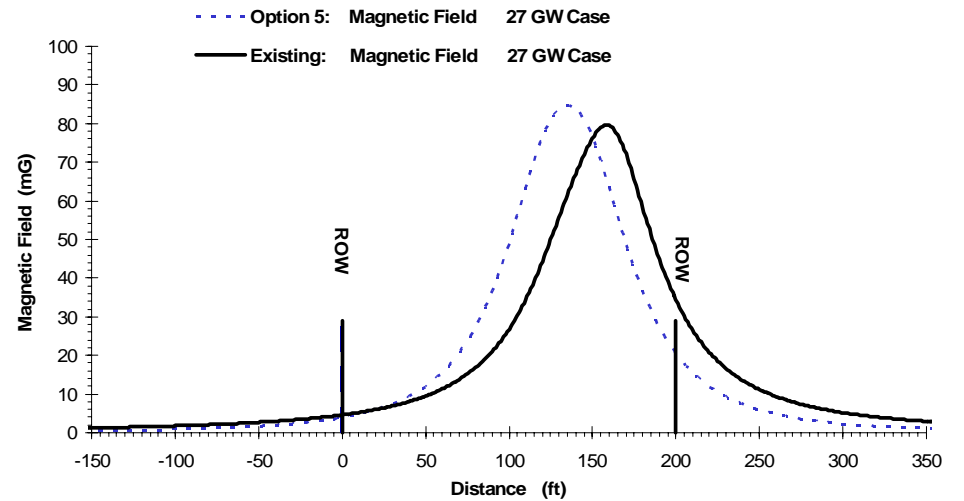
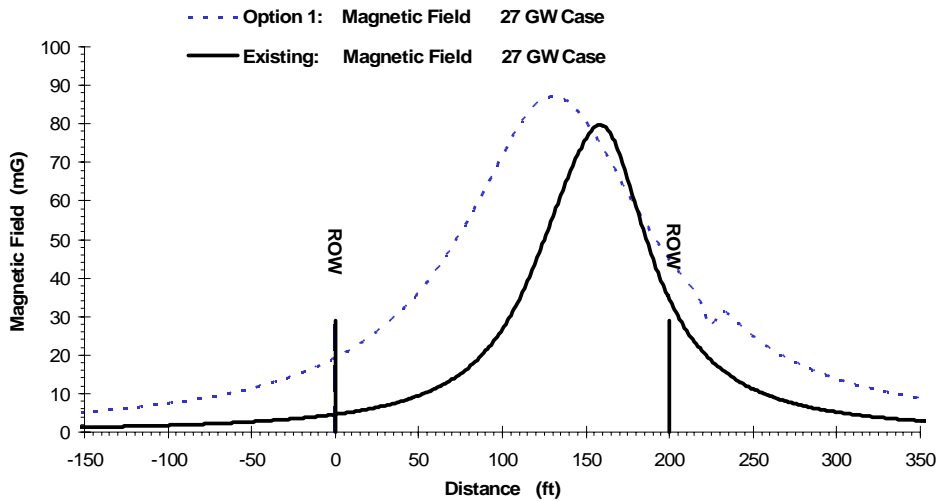


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 7B (27GW Case)

Typical Segment – Cheshire Town Line to Cook Hill Junction in the Town of Cheshire

		Transmission ROW																										
Site Condition		150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)		1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.8	3.3	3.9	4.6	9.5	15.2	26.8	50.0	76.2	34.3	23.4	16.6	12.3	9.4	7.4	5.9	4.9	4.1	3.4	2.9
0 Proposed Lines on Existing ROW (For Reference)		5.4	6.0	6.6	7.5	8.4	9.6	11.0	12.8	15.0	17.8	21.4	45.1	71.8	119.9	173.8	145.4	59.3	45.0	38.4	30.7	24.4	20.0	16.7	14.1	12.1	10.5	9.2
		OPTIONS																										
1 345 kV with added 20' - a 115 kV Line UG		5.2	5.8	6.4	7.2	8.1	9.1	10.4	11.9	13.8	16.2	19.1	36.2	51.6	71.7	86.5	80.4	44.5	36.0	30.8	26.5	21.6	18.1	15.3	13.1	11.4	9.9	8.7
2 345 kV Split-Phase Offset on ROW - 115 kV Lines UG		0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.8	2.3	3.0	3.9	11.9	23.5	48.9	80.9	76.3	20.4	13.5	9.3	6.6	4.8	3.6	2.7	2.1	1.7	1.4	1.1

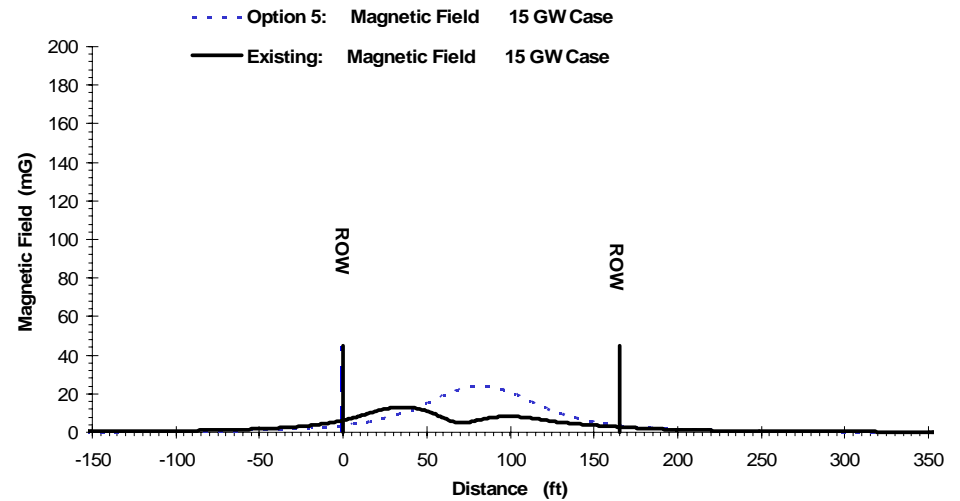
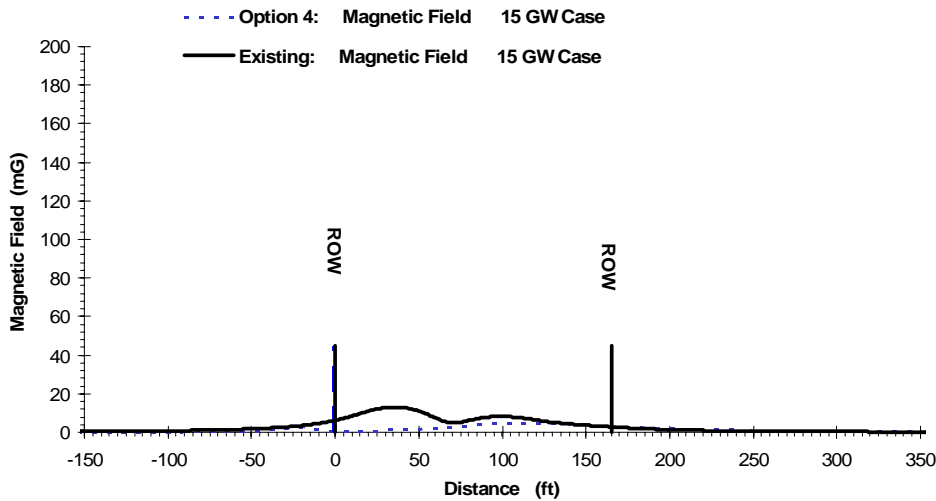


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 8A (15GW Case)

Typical Segment – Cook Hill Junction to the Hamden Town Line in the Town of Cheshire

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	0.5	0.5	0.6	0.8	0.9	1.1	1.5	2.0	2.7	4.0	6.2	13.0	8.2	6.7	7.8	4.9	2.8	2.0	1.5	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.3
0 Proposed Lines on Existing ROW (For Reference)	1.1	1.3	1.4	1.6	1.8	2.1	2.4	2.9	3.6	4.9	5.0	8.5	14.6	28.5	42.1	31.9	16.0	11.8	9.0	7.0	5.6	4.5	3.7	3.1	2.6	2.3	2.0
		OPTIONS																									
4 345 kV Split Phase + 30' - a 115 kV Line OH & supported change	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.8	1.6	0.8	1.0	1.9	3.6	4.7	4.4	3.0	2.4	1.9	1.5	1.2	1.0	0.8	0.7	0.6	0.5	0.4
5 345 kV Split Phase Centered on ROW - (2) 115 kV Lines UG	0.3	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.5	3.6	9.1	18.1	24.0	17.7	8.8	3.6	2.5	1.8	1.3	1.0	0.7	0.6	0.5	0.4	0.3	0.3

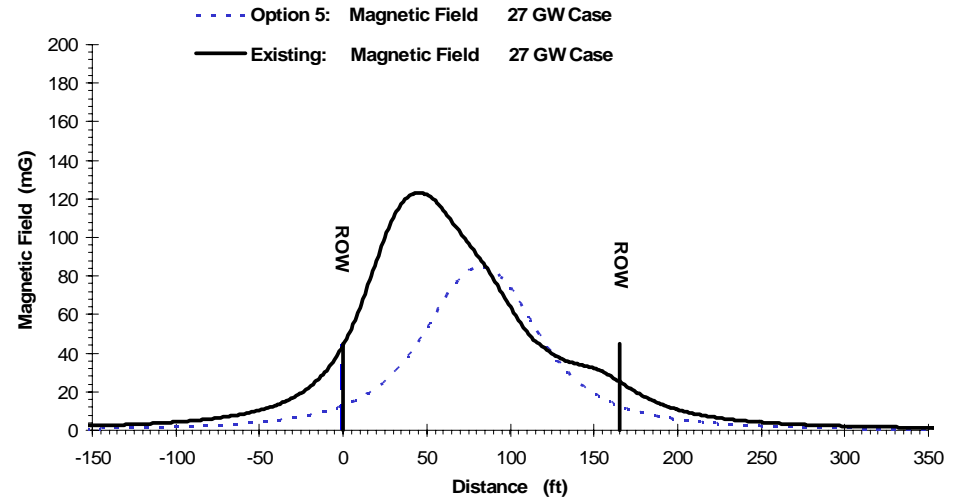
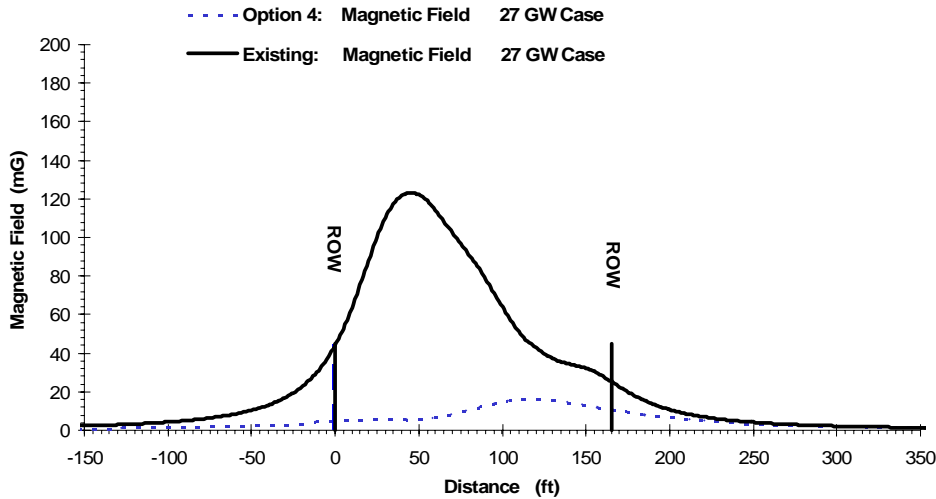


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 8A (27GW Case)

Typical Segment – Cook Hill Junction to the Hamden Town Line in the Town of Cheshire

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	N/W Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	2.3	2.7	3.3	4.0	5.0	6.4	8.4	11.6	16.9	26.3	44.0	114.9	116.2	87.6	53.3	36.2	25.4	17.6	12.1	8.6	6.4	4.9	3.9	3.1	2.6	2.2	1.9
0 Proposed Lines on Existing ROW (For Reference)	3.6	4.0	4.5	5.0	5.7	6.6	7.6	8.9	10.7	11.6	15.6	27.2	48.5	98.6	146.1	109.3	54.3	40.0	30.3	23.5	18.6	15.0	12.4	10.3	8.8	7.5	6.5
OPTIONS																											
4 345 kV Split Phase + 30' - a 115 kV Line OH & supported change	0.8	0.9	1.0	1.2	1.4	1.7	2.0	2.3	2.6	3.9	4.7	5.5	6.1	11.1	15.5	15.1	10.6	8.6	6.9	5.6	4.5	3.7	3.1	2.6	2.2	1.9	1.6
5 345 kV Split Phase Centered on ROW - (2) 115 kV Lines UG	0.9	1.1	1.3	1.6	2.1	2.6	3.4	4.6	6.2	8.8	12.7	32.0	64.0	84.6	62.6	31.1	12.7	8.8	6.2	4.6	3.4	2.6	2.1	1.6	1.3	1.1	0.9

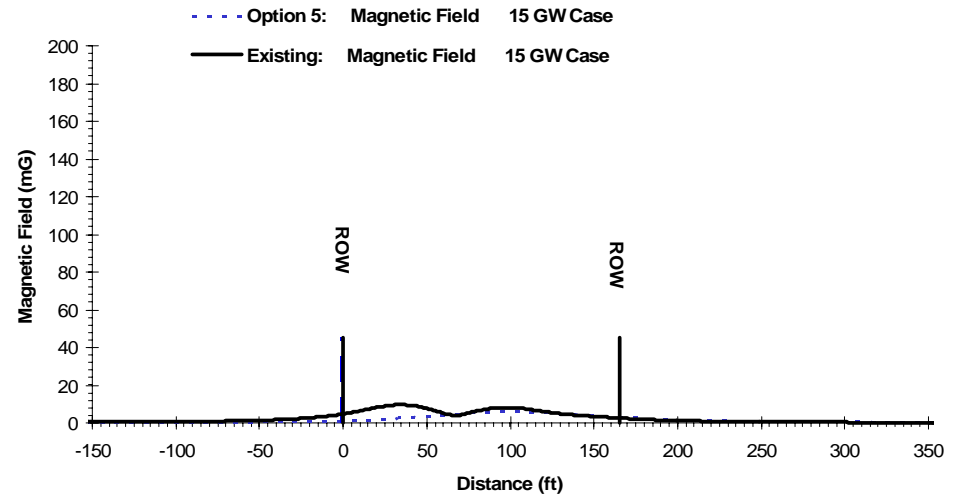
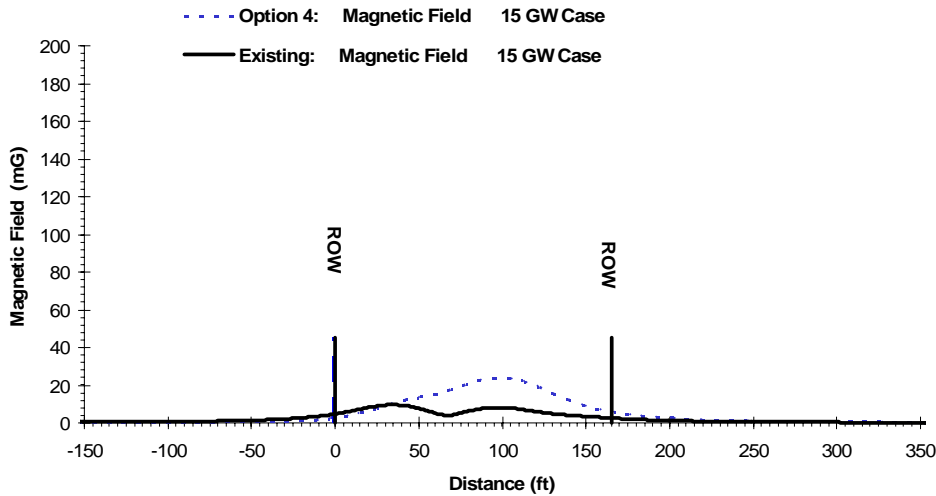


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 8 (15GW Case) North Segment

Typical Segment – Cheshire / Hamden Town Line to Glen Lake Junction in the Municipalities of Hamden, Bethany & Woodbridge

		Transmission ROW																										
Site Condition		150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)		0.4	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.1	3.1	4.7	9.6	5.6	6.9	7.6	4.6	2.6	1.9	1.4	1.0	0.8	0.7	0.5	0.4	0.4	0.3	0.3
0 Proposed Lines on Existing ROW (For Reference)		1.5	1.6	1.9	2.1	2.4	2.8	3.3	3.9	4.8	6.2	8.7	22.5	33.4	50.6	48.6	31.9	15.7	11.6	8.8	6.9	5.5	4.5	3.7	3.1	2.7	2.3	2.0
OPTIONS																												
4 345 kV Split Phase		0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.4	2.5	9.8	14.8	21.7	22.9	14.4	5.8	3.9	2.7	1.9	1.4	1.1	0.9	0.7	0.5	0.4	0.4
5 345 kV Split Phase +30'		0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.5	0.6	0.9	2.3	3.9	5.3	5.6	4.6	2.9	2.2	1.7	1.3	1.1	0.9	0.7	0.6	0.5	0.4	0.3

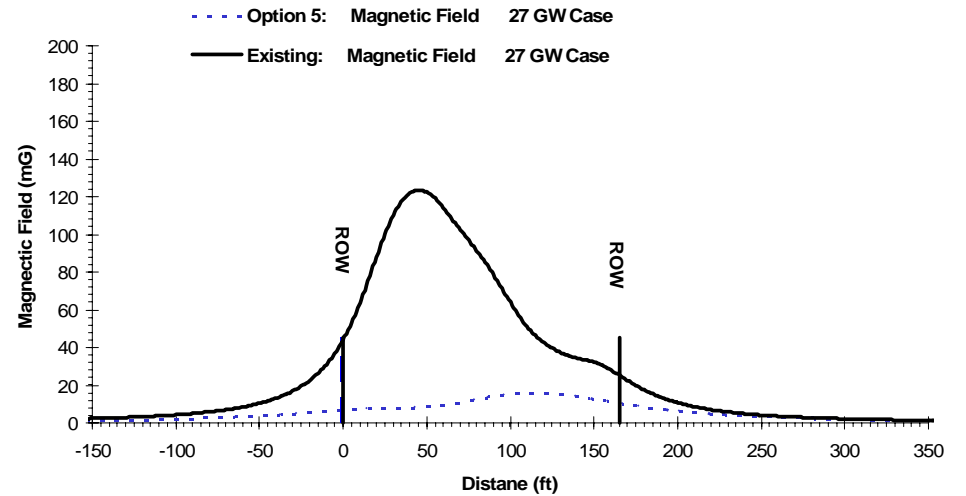
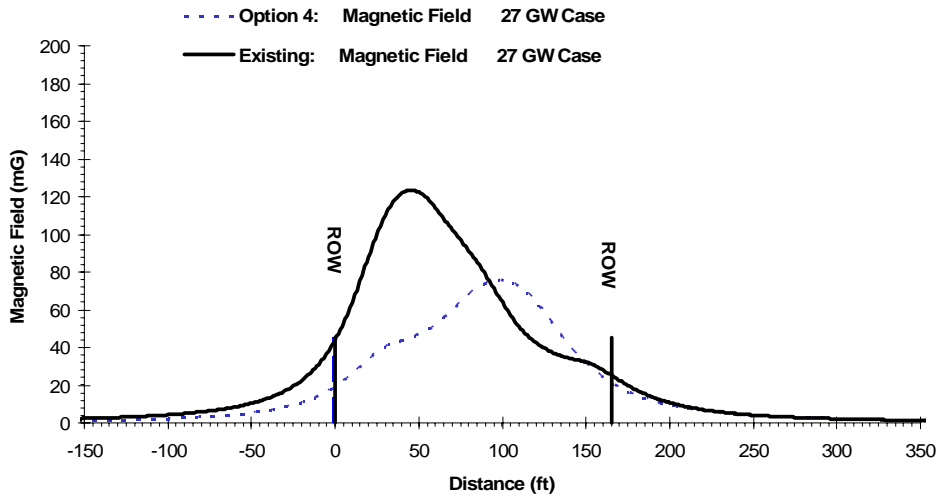


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 8 (27GW Case) North Segment

Typical Segment – Cheshire / Hamden Town Line to Glen Lake Junction in the Municipalities of Hamden, Bethany & Woodbridge

		Transmission ROW																										
Site Condition		150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)		2.3	2.7	3.3	4.0	5.0	6.4	8.4	11.6	16.9	26.3	44.0	114.9	116.2	87.6	53.3	36.2	25.4	17.6	12.1	8.6	6.4	4.9	3.9	3.1	2.6	2.2	1.9
0 Proposed Lines on Existing ROW (For Reference)		4.7	5.3	5.9	6.7	7.7	8.9	10.5	12.5	15.6	20.8	31.4	85.0	125.6	180.3	170.0	111.5	54.8	40.3	30.5	23.7	18.9	15.4	12.7	10.7	9.1	7.8	6.8
OPTIONS																												
4 345 kV Split Phase		1.2	1.5	1.7	2.1	2.6	3.3	4.3	5.9	8.3	12.3	19.1	41.6	50.7	70.1	73.6	48.7	21.1	14.7	10.6	7.9	6.0	4.7	3.8	3.1	2.5	2.1	1.8
5 345 kV Split Phase +30'		1.1	1.3	1.5	1.8	2.1	2.6	3.1	3.9	4.7	5.7	6.8	8.0	9.1	12.8	15.7	14.8	10.4	8.4	6.8	5.5	4.5	3.7	3.1	2.6	2.2	1.9	1.6

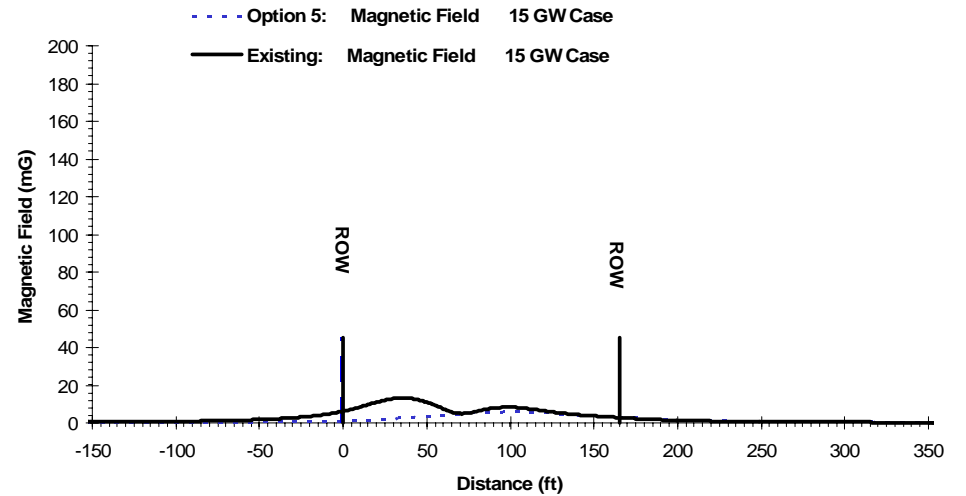
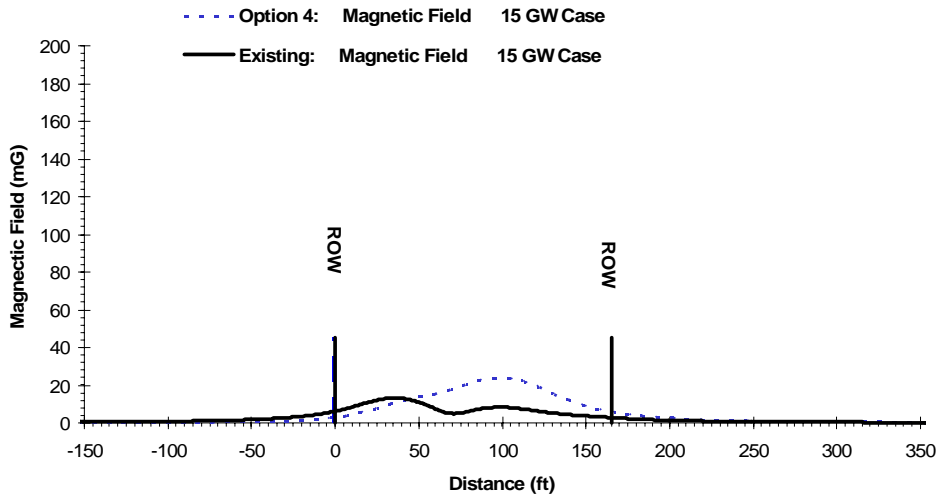


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 8 (15GW Case) Middle Segment

Typical Segment – Glen Lake Junction to Pease Road Junction in the Town of Woodbridge

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	0.5	0.5	0.6	0.8	0.9	1.1	1.5	2.0	2.7	4.0	6.2	13.0	8.2	6.7	7.8	4.9	2.8	2.0	1.5	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.3
0 Proposed Lines on Existing ROW (For Reference)	1.5	1.6	1.8	2.1	2.4	2.8	3.3	3.9	4.8	6.2	8.7	22.6	33.5	50.7	48.6	31.9	15.7	11.6	8.8	6.9	5.5	4.5	3.7	3.1	2.7	2.3	2.0
OPTIONS																											
4 345 kV Split Phase	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.5	2.7	10.0	14.9	21.6	22.8	14.4	5.8	3.9	2.7	2.0	1.4	1.1	0.9	0.7	0.6	0.5	0.4
5 345 kV Split Phase +30'	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	2.3	3.9	5.2	5.6	4.6	2.9	2.2	1.7	1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.3

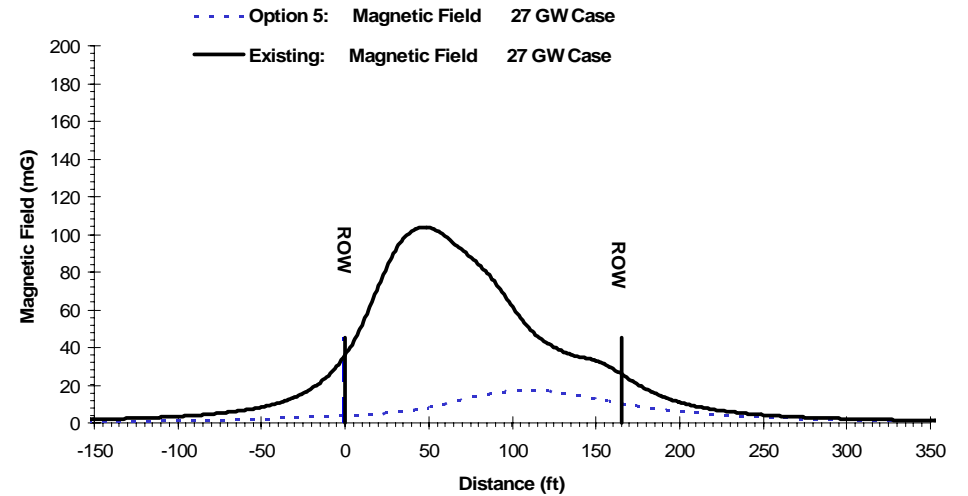
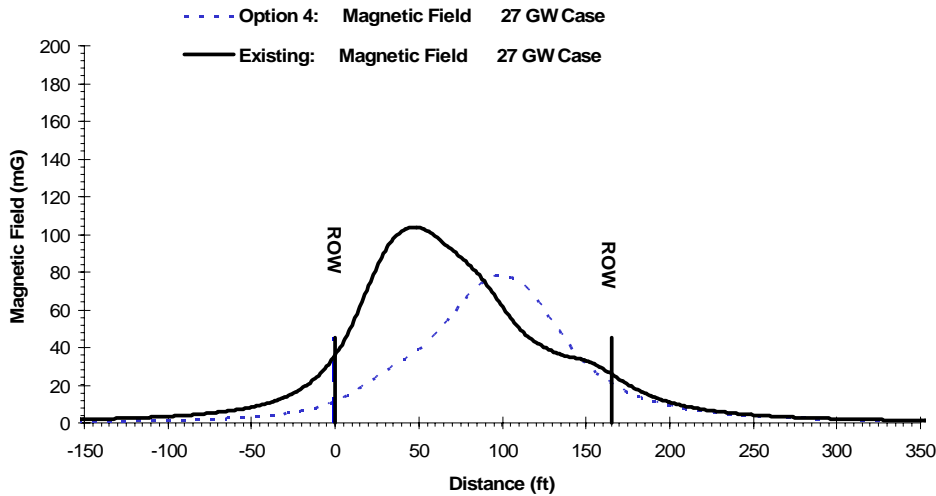


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 8 (27GW Case) Middle Segment

Typical Segment – Glen Lake Junction to Pease Road Junction in the Town of Woodbridge

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	1.9	2.2	2.6	3.2	4.0	5.1	6.8	9.3	13.6	21.3	35.9	95.5	100.2	81.4	52.3	36.9	26.0	18.0	12.4	8.8	6.5	5.0	3.9	3.2	2.6	2.2	1.9
0 Proposed Lines on Existing ROW (For Reference)	4.9	5.5	6.2	7.1	8.1	9.4	11.0	13.1	16.0	20.5	28.9	74.7	120.1	178.9	170.3	111.9	55.1	40.5	30.7	23.9	19.1	15.5	12.9	10.8	9.2	7.9	6.9
OPTIONS																											
4 345 kV Split Phase	0.7	0.8	1.0	1.2	1.5	1.9	2.5	3.4	4.8	7.2	11.3	28.8	44.9	70.5	76.0	49.5	20.8	14.3	10.2	7.5	5.6	4.4	3.5	2.8	2.3	1.9	1.6
5 345 kV Split Phase +30'	0.7	0.8	0.9	1.0	1.2	1.5	1.8	2.2	2.6	3.2	3.8	5.8	9.7	14.8	17.3	15.4	10.3	8.2	6.5	5.2	4.2	3.4	2.8	2.3	2.0	1.7	1.4

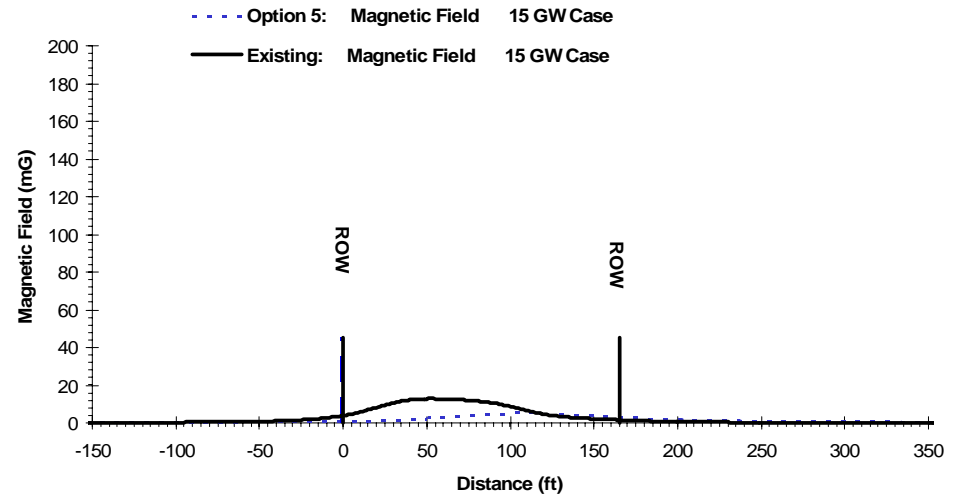
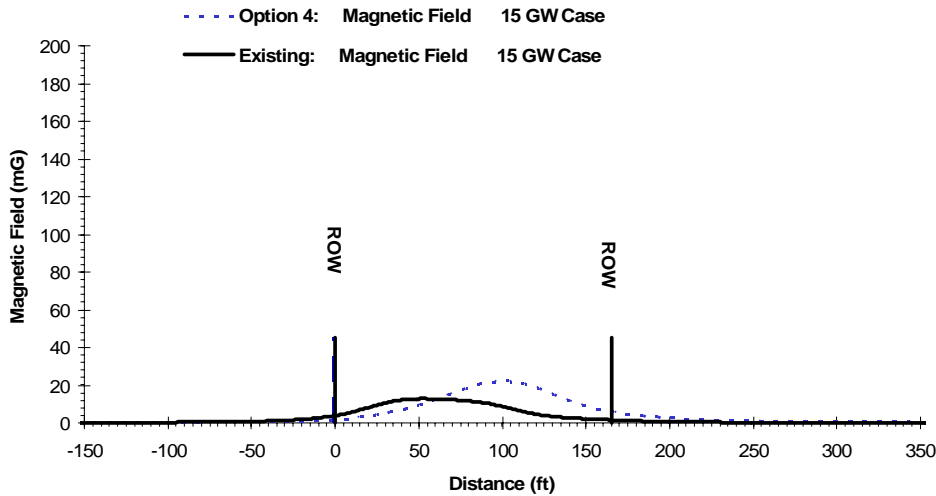


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 8 (15GW Case) South Segment

Typical Segment – Pease Road Junction to East Devon S/S in the Municipalities of Woodbridge, Orange, West Haven & Milford

		Transmission ROW																									
Site Condition	150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.4	2.2	3.9	11.1	12.7	11.3	7.0	3.2	1.6	1.1	0.7	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1
0 Proposed Lines on Existing ROW (For Reference)	1.8	2.0	2.3	2.7	3.1	3.7	4.5	5.5	6.8	8.7	11.2	18.1	29.9	49.8	49.0	32.3	16.0	11.9	9.0	7.1	5.7	4.6	3.8	3.2	2.8	2.4	2.1
OPTIONS																											
4 345 kV Split Phase	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.7	5.7	11.7	19.7	21.6	14.1	5.9	4.0	2.9	2.1	1.6	1.2	1.0	0.8	0.6	0.5	0.4
5 345 kV Split Phase +30'	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	1.4	2.7	4.3	5.0	4.5	2.9	2.3	1.8	1.5	1.2	0.9	0.8	0.6	0.5	0.5	0.4

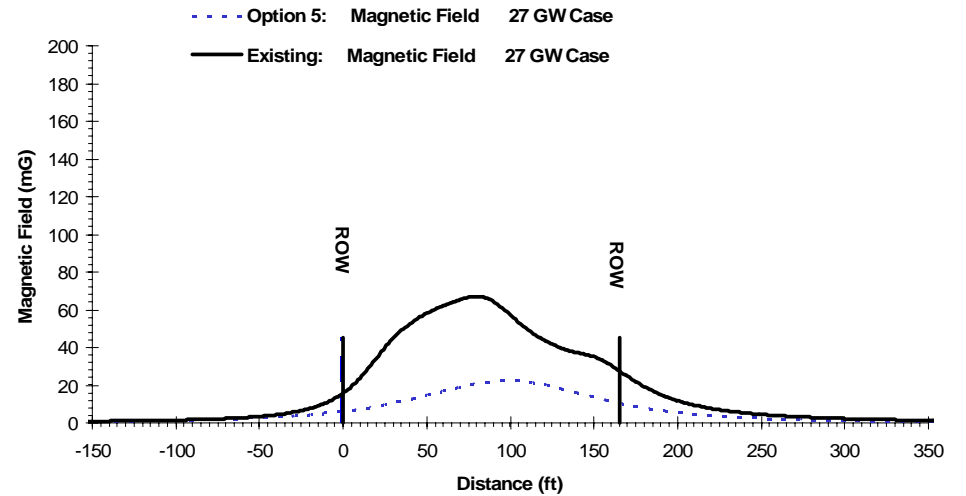
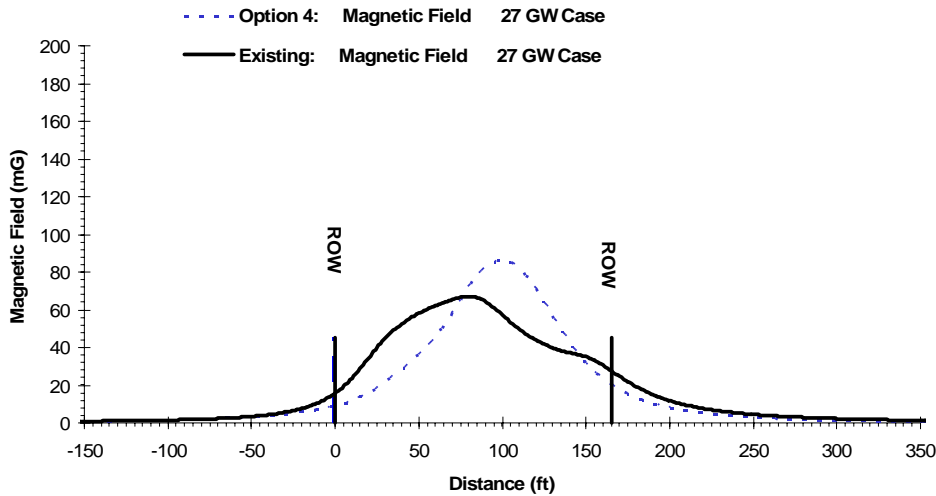


Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey

Cross Section 8 (27GW Case) South Segment

Typical Segment – Pease Road Junction to East Devon S/S in the Municipalities of Woodbridge, Orange, West Haven & Milford

		Transmission ROW																										
Site Condition		150'	135'	120'	105'	90'	75'	60'	45'	30'	15'	S/E Edge	50'	25'	Center	25'	50'	NW Edge	15'	30'	45'	60'	75'	90'	105'	120'	135'	150'
Existing Lines (For Reference)		0.9	1.0	1.2	1.4	1.7	2.1	2.8	3.8	5.6	9.0	15.8	47.7	61.4	66.9	51.0	38.9	27.7	19.3	13.3	9.5	7.0	5.3	4.2	3.3	2.7	2.3	1.9
0 Proposed Lines on Existing ROW (For Reference)		5.5	6.2	7.1	8.1	9.4	11.1	13.1	15.8	19.4	24.3	31.0	58.6	109.9	176.6	171.1	112.7	55.7	41.1	31.2	24.3	19.4	15.9	13.2	11.1	9.4	8.2	7.1
OPTIONS																												
4 345 kV Split Phase		0.8	1.0	1.2	1.4	1.7	2.2	2.7	3.5	4.7	6.4	9.0	23.3	43.3	75.8	83.4	52.0	20.3	13.4	9.2	6.5	4.7	3.5	2.7	2.1	1.6	1.3	1.1
5 345 kV Split Phase +30'		0.7	0.9	1.0	1.2	1.5	1.8	2.3	2.8	3.6	4.6	6.0	11.0	16.4	21.3	21.9	17.5	10.4	7.9	5.9	4.5	3.5	2.7	2.2	1.7	1.4	1.1	0.9



Potential Magnetic Field reduction for Proposed overhead lines - Exhibit 1 to Testimony of Dr. William H. Bailey