DRAFT: Maine Power Reliability Project

EMF & AN Profiles and Tables

Segment 17 - Section 64 - Structure #98 (ROW X-Section N5-17-6)

Prepared on November 24, 2008.

Table 1: Calculated magnetic field levels (mG).

Line Section	Configuration	Magnetic Field (mG) at Location								
		-300 ft beyond ROW edge	-200 ft beyond ROW edge	-100 ft beyond ROW edge	-ROW edge	Maximum on ROW	+ROW edge	+100 ft beyond ROW edge	+200 ft beyond ROW edge	+300 ft beyond ROW edge
XS-28 Segment 17 - Section 64 - Structure #98 (ROW X-Section N5-17-6)										
Average Load	existing	0.6	1.0	2.0	6.1	90.6	2.0	1.0	0.6	0.4
	proposed	1.0	1.5	2.5	5.8	164.2	14.8	4.8	2.4	1.4
Peak Load	existing	0.1	0.2	0.4	2.0	144.3	1.2	0.5	0.3	0.2
	proposed	0.8	1.1	2.0	4.8	169.9	13.6	4.3	2.1	1.2

Table 2: Calculated electric field levels (kV/m).

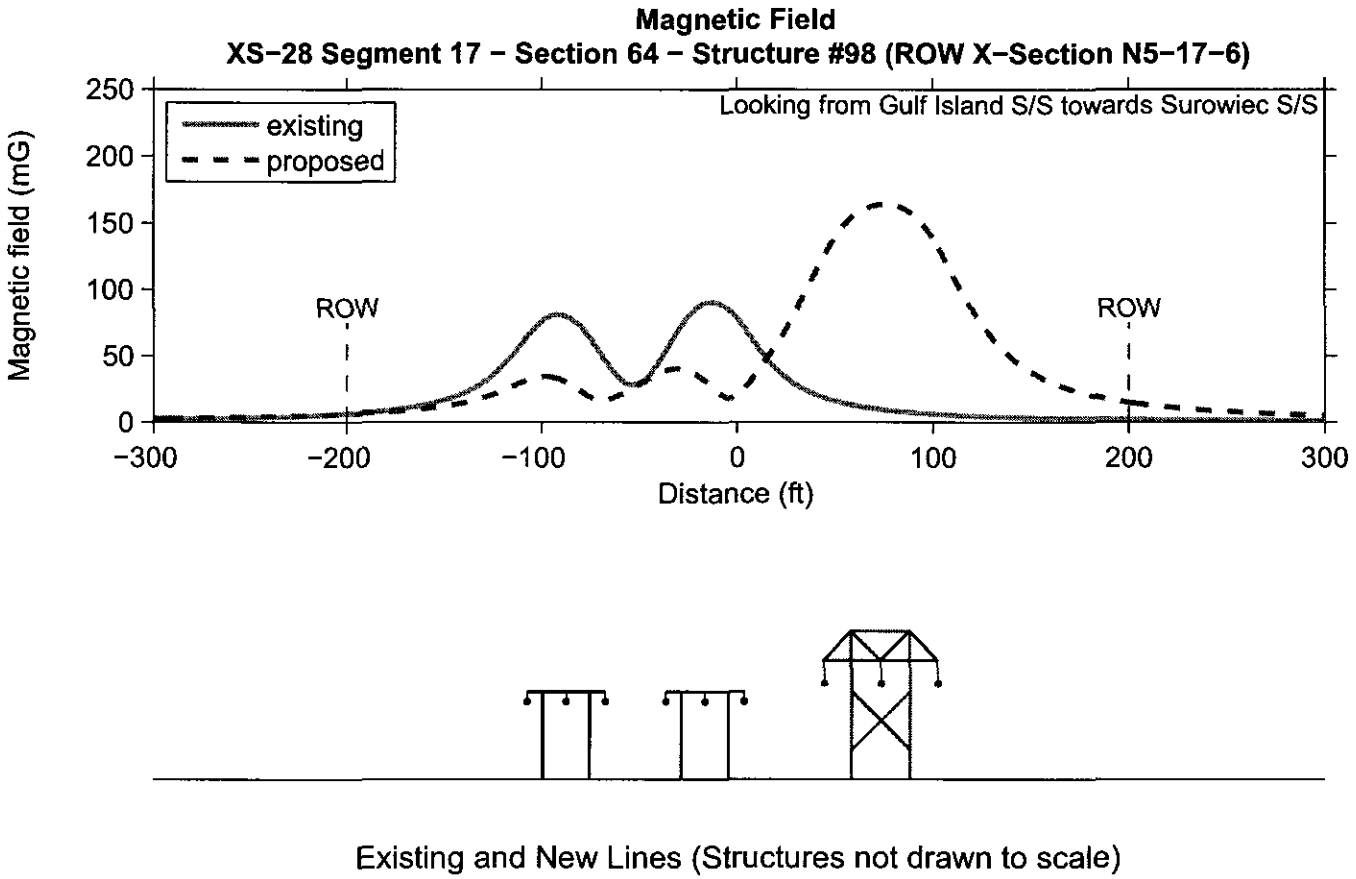
Line Section	Configuration	Electric Field (kV/m) at Location								
		-300 ft beyond ROW edge	-200 ft beyond ROW edge	-100 ft beyond ROW edge	-ROW edge	Maximum on ROW	+ROW edge	+100 ft beyond ROW edge	+200 ft beyond ROW edge	+300 ft beyond ROW edge
XS-28 Segment 17 - Section 64 - Structure #98 (ROW X-Section N5-17-6)	existing	0.00	0.01	0.01	0.07	1.59	0.01	0.01	0.00	0.00
	proposed	0.01	0.01	0.02	0.09	5.87	0.40	0.08	0.03	0.01

Table 3: Calculated audible noise levels (dBA) assuming a 2000 ft altitude. Microphone assumed to be 5ft above ground.

Line Section	Configuration	Fair Weather				Foul Weather			
		-300 ft beyond ROW edge	-ROW edge	+ROW edge	+300 ft beyond ROW edge	-300 ft beyond ROW edge	-ROW edge	+ROW edge	+300 ft beyond ROW edge
XS-28 Segment 17 - Section 64 - Structure #98 (ROW X-Section N5-17-6)	existing	$< 0^{\dagger}$	$< 0^{\dagger}$	$< 0^{\dagger}$	$< 0^{\dagger}$	7.2	12.8	10.2	6.2
	proposed	6.9	10.6	14.3	8.3	31.9	35.6	39.3	33.3

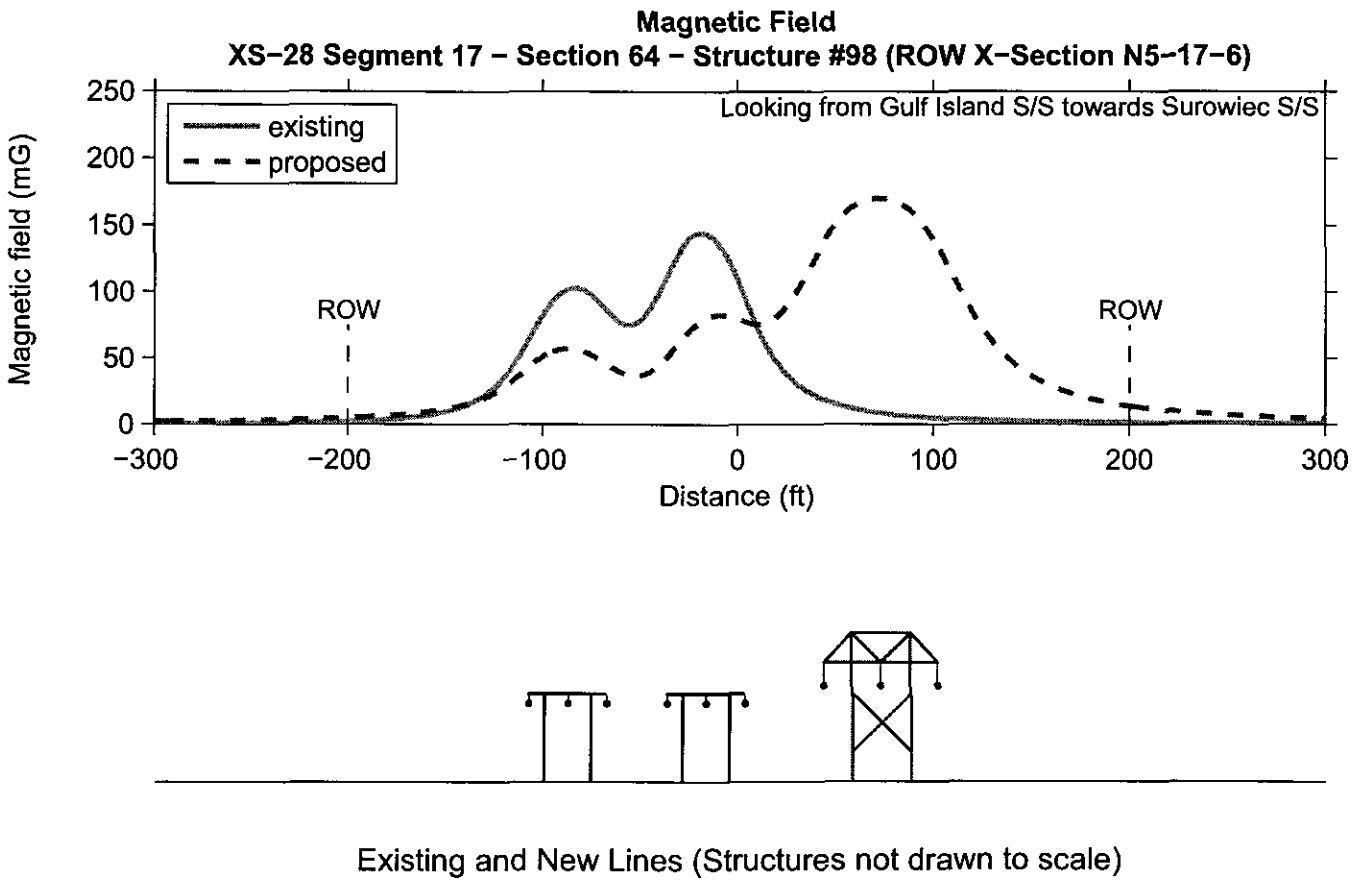
† < 0, i.e. below threshold of hearing

Figure 1: Magnetic field profile, average load.



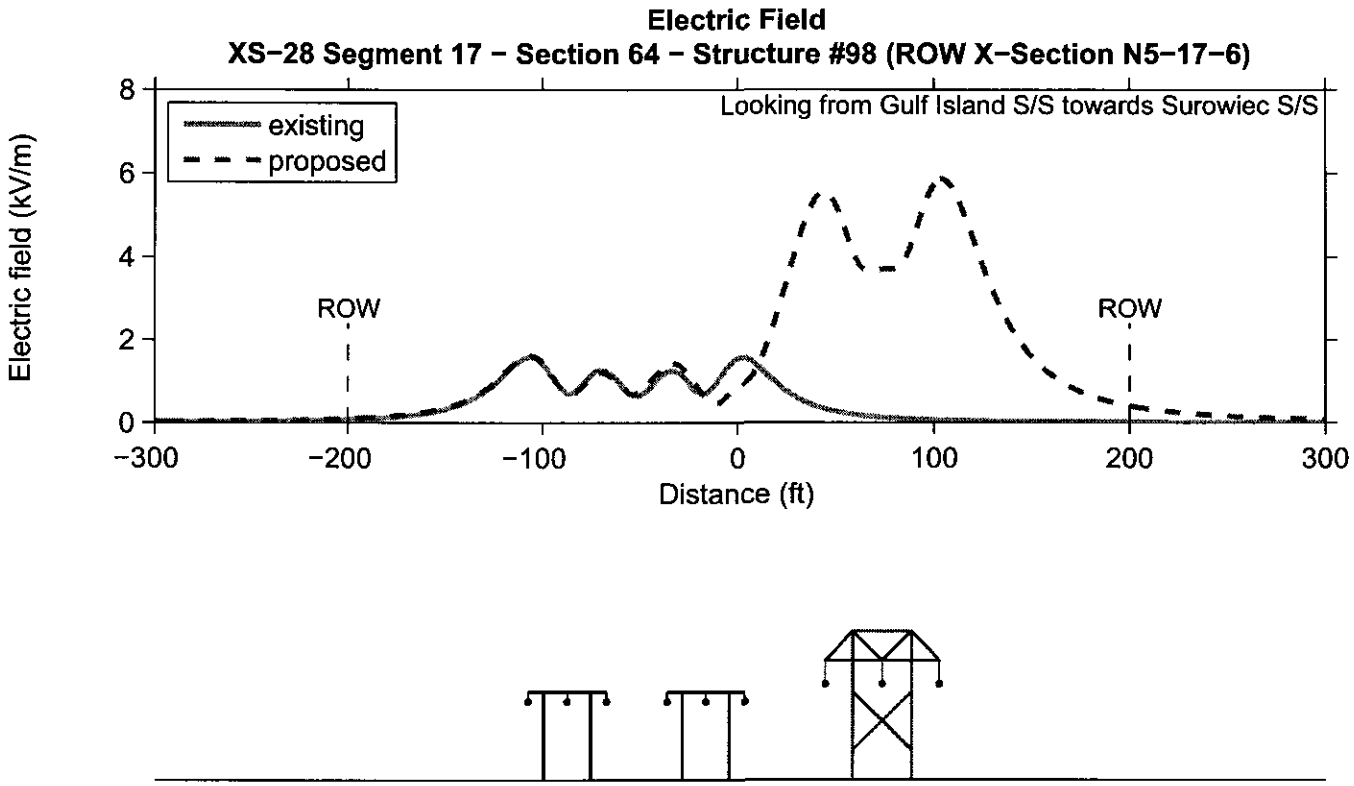
Existing and New Lines (Structures not drawn to scale)

Figure 2: Magnetic field profile, peak load.



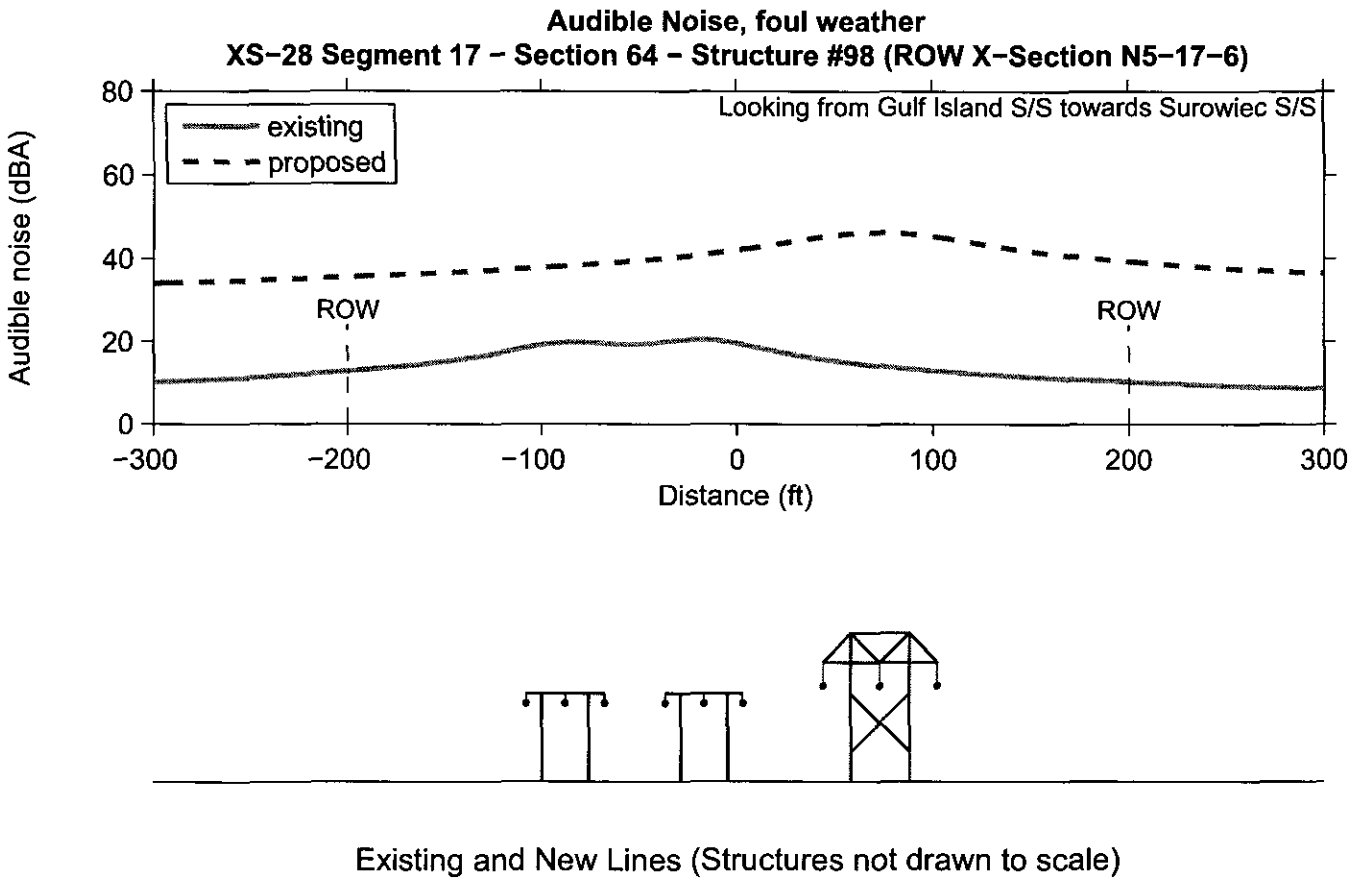
Existing and New Lines (Structures not drawn to scale)

Figure 3: Electric field profile.



Existing and New Lines (Structures not drawn to scale)

Figure 4: Audible noise profile, microphone 5ft from ground, 2000 ft altitude assumed.



Existing and New Lines (Structures not drawn to scale)