

Sunrise Wind New York Cable Project

Revised Appendix 4-J

Magnetic-Field Assessment in New York

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Sunrise Wind Magnetic-Field Assessment in New York

Sunrise Wind New York Cable Project

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Sunrise Wind Magnetic-Field Assessment in New York

REVISION HISTORY

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Acronyms and Abbreviations

μT	Microtesla
A	Ampere
AC	Alternating current
BOEM	Bureau of Ocean Energy Management
BPA	Bonneville Power Administration
cm	Centimeter
DC	Direct current
DC Project Cables	SRWEC-NYS and Onshore Transmission Cables
Eversource	Eversource Investment LLC
Exponent	Exponent Engineering PC
ft	Feet
GCC	Ground continuity conductor
Hz	Hertz
IEEE	Institute of Electrical and Electronics Engineers
km	Kilometer
kV	Kilovolt
Lease Area	Renewable Energy Lease Area OCS-0487
m	Meter
mi	Mile
mG	Milligauss
mm	Millimeter
MW	Megawatt
nT	Nanotesla
NY	New York
NYS	New York State
NYSERDA	New York State Energy Research and Development Authority
NYPSC	New York Public Service Commission
Onshore Interconnection Cable	Underground segment of the transmission cable
Onshore Transmission Cable	Terrestrial underground segment of the transmission cable
OCS-DC	Offshore Converter Station
OD	Outer diameter
OnCS-DC	Onshore Converter Station
OREC	Offshore Wind Renewable Energy Certificate
Orsted NA	Orsted North America, Inc.
PDE	Project design envelope
Project	Sunrise Wind New York Cable Project
PVC	Polyvinyl chloride
ROW	Right of way
SRWEC	Sunrise Wind Export Cable
SRWEC-NYS	Sunrise Wind Export Cable in New York State Waters
SRWF	Sunrise Wind Farm
Sunrise Wind	Sunrise Wind LLC
TJB	Transition joint bay
WNC	Winter Normal Conductor
XLPE	Cross-linked polyethylene

Limitations

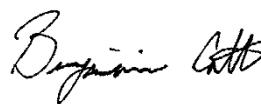
At the request of TRC Environmental Corporation (TRC) and Sunrise Wind LLC (Sunrise Wind), Exponent Engineering PC (Exponent) modeled the alternating current and direct current magnetic fields and induced electric fields associated with the operation of the offshore and onshore cables proposed for the Sunrise Wind New York Cable Project (the Project).

This report summarizes the analysis performed to date and presents the findings resulting from that work. In the analysis, we have relied on cable design geometry, usage, specifications, and various other types of information provided by Sunrise Wind. We cannot verify the correctness of this input data and rely on Sunrise Wind for the data's accuracy. Although Exponent has exercised usual and customary care in the conduct of this analysis, the responsibility for the design and operation of the Project remains fully with the client. TRC has confirmed to Exponent that the data contained herein are not subject to Critical Energy Infrastructure Information restrictions.

The analyses presented herein are made to a reasonable degree of engineering and scientific certainty. Exponent reserves the right to supplement this report and to expand or modify opinions based on review of additional material as it becomes available, through any additional work, or review of additional work performed by others.

The scope of services performed during this investigation may not adequately address the needs of other users of this report, and any re-use of this report or its findings, conclusions, or recommendations presented herein for purposes other than intended for project permitting are at the sole risk of the user. The opinions and comments formulated during this assessment are based on observations and information available at the time of the investigation. No guarantee or warranty as to future life or performance of any reviewed condition is expressed or implied.

Benjamin R.T. Cotts, Ph.D., P.E. (Licensed Electrical Engineer, New York, #103209), employed by Exponent, performed or reviewed calculations of the magnetic fields associated with the operation of the proposed Project.



Benjamin Cotts, Ph.D., P.E.



Executive Summary

At the request of TRC Environmental Corporation (TRC) and Sunrise Wind LLC (Sunrise Wind), Exponent Engineering P.C. (Exponent) calculated the magnetic fields associated with the operation of transmission cables in New York State (NYS) for the Sunrise Wind New York Cable Project (the Project). The Project involves transmission of electricity generated by the Sunrise Wind Farm as direct current (DC) through NYS waters on the Sunrise Wind Export Cable (SRWEC–NYS); once onshore, transmission occurs via the Onshore Transmission Cable to the Onshore Converter Station (OnCS–DC) in the Town of Brookhaven, Long Island, New York, where the current is converted from DC to alternating current (AC). From the OnCS–DC, the AC current is transmitted to substations via the Onshore Interconnection Cable to the point of interconnection nearby at the Holbrook Substation.

As part of the Article VII filing, Exponent modeled the DC (i.e., static) magnetic-field produced during operation of the SRWEC–NYS and the Onshore Transmission Cable, as well as the 60-Hertz AC magnetic-field levels produced during operation of the Onshore Interconnection Cable. The electric field from all the underground cables is blocked by the cable armoring as well as the earth, and therefore, will not be a direct source of any electric field above ground. The 1990 New York Public Service Commission (NYPSC) standards requires magnetic-field calculations be performed for operation at current flows equal to the winter normal conductor rating and evaluated at the edge of the transmission line right-of-way (ROW). A ROW is not specified for portions of the route and so all comparisons to the NYPSC limit were performed at a conservatively short distance of 10 feet from the center of the transmission line.

The DC magnetic field from the SRWEC–NYS and the Onshore Transmission Cable will alter the Earth's (DC) geomagnetic field around the cables, but the effect will decrease very rapidly with distance. At ± 10 feet (ft) from the cables, the largest change in Earth's geomagnetic field from either the SRWEC–NYS or the Onshore Transmission Cable is 110 milligauss (mG), decreasing to 32 mG or less at ± 25 ft from the cable, which is just a fraction of the background geomagnetic field.

Calculated AC magnetic fields from the Onshore Interconnection Cable, which are subject to Article VII of the New York Public Service Law, are a maximum of 65 mG directly above the cable duct banks. At ± 10 ft from the centerline of duct bank centerline, the calculated magnetic field level is 63 mG, decreasing to 21 mG or less at a distance of ± 25 ft from the duct bank centerline. These calculated magnetic fields are below 200 mG and thus comply with the magnetic-field guidelines of the NYPSC.

At a horizontal distance of 10 ft (3 m) from the respective cable centerline (and beyond), all calculated AC magnetic-field levels and DC magnetic-field deviations are below 200 mG.

Note that this Executive Summary does not contain all of Exponent's technical evaluations, analyses, conclusions, and recommendations. Hence, the main body of this report is at all times the controlling document.

1.0 Introduction

1.1 Project Description

Sunrise Wind LLC (Sunrise Wind), a 50/50 joint venture between Orsted North America Inc. (Orsted NA) and Eversource Investment LLC (Eversource), proposes to construct, own, and operate the Sunrise Wind New York Cable Project (the Project). The Project will deliver power from the Sunrise Wind Farm (SRWF), located on the Outer Continental Shelf (OCS) in the designated Bureau of Ocean Energy Management (BOEM) Renewable Energy Lease Area OCS-A 0487 (Lease Area),¹ to the existing electrical grid in New York (NY). The Lease Area is approximately 18.9 statute miles (mi) (16.4 nautical miles [nm], 30.4 kilometers [km]) south of Martha's Vineyard, Massachusetts; approximately 30 mi (26.1 nm, 48.2 km) east of Montauk, NY, and 16.7 mi (14.5 nm, 26.8 km) from Block Island, Rhode Island. The Lease Area contains portions of areas that were originally awarded through the BOEM competitive renewable energy lease auctions of the Wind Energy Areas off the shores of Rhode Island and Massachusetts. The Project includes offshore and onshore components within New York State (NYS). The proposed interconnection location for the Project is the Holbrook Substation, which is owned and operated by Long Island Power Authority. Sunrise Wind executed a contract with the New York State Energy Research and Development Authority (NYSERDA) for a 25-year Offshore Wind Renewable Energy Certificate (OREC) Agreement in October 2019.

Power from the SRWF will be delivered to the existing mainland electric grid via distinct transmission cable segments: 1) the submarine segment of the export cable (SRWEC) in NYS waters (SRWEC–NYS); 2) the terrestrial underground segment of the transmission cable (Onshore Transmission Cable); 3) the new Onshore Converter Station (OnCS–DC); and 4) the underground segment of the interconnection cable (Onshore Interconnection Cable). The Onshore Transmission Cable, the OnCS–DC, and Onshore Interconnection Cable are all located in the Town of Brookhaven in Suffolk County, NY.

For purposes of this report, the Project's components are generally defined in two categories.

- SRWEC–NYS:
 - One direct current (DC) submarine export cable bundle comprised of two cables (± 320 kilovolt [kV]) approximately 6.2 mi (10 km) in NYS waters and 1,575 feet (ft) (480 meters [m]) located onshore (i.e., above the Mean High Water Line as defined by the United States Army Corps of Engineers [33 CFR 329]) and underground, up to the transition joint bays (TJB);
- Onshore Facilities:
 - The Onshore Transmission Cable, an underground transmission circuit (± 320 kV) approximately 17.5-mi (28.17-km) long within an existing roadway right-of-way (ROW), TJBs, concrete duct banks, and/or direct buried joint bays and associated components;
 - One OnCS–DC that will transform the DC voltage to 138 kV alternating current (AC)²;

¹ A portion of Lease Area OCS-A 0500 (Bay State Wind LLC) and the entirety of Lease Area OCS-A 0487 (formerly Deepwater Wind New England LLC) were assigned to Sunrise Wind LLC on September 3, 2020, and the two areas were merged and a revised Lease OCS-A 0487 was issued on March 15, 2021. Thus, when using the term "Lease Area" within this COP, Sunrise Wind is referring to the new merged Lease Area OCS-A 0487.

² The fields associated with the operation of the OnCS–DC itself were not calculated because the strongest fields at the site boundary will come from the lines connecting to this facility as described in Institute of Electrical and Electronic Engineers Guide for the Design, Construction, and Operation of Electric Power Substations for Community Acceptance and Environmental Compatibility (IEEE Std. 1127-2013). New York: IEEE, 2013.

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- The Onshore Interconnection cable, consisting of up to two underground 138 kV AC transmission lines, which will connect the new OnCS-DC to the existing Holbrook Substation.

As part of this report, Exponent calculated DC magnetic fields associated with the operation of the SRWEC-NYS and Onshore Transmission Cable (together these cables are referred to in this report as the DC Project Cables). Exponent also calculated the AC magnetic fields associated with the operation of the Onshore Interconnection Cable, which will connect the Project to the Holbrook Substation.

Attachment A provides information about the modeling configurations, Attachment B discusses calculation methods, Attachment C provides detailed tabular and graphical results, Attachment D provides input data used for all modeling scenarios, and Attachments E and F provide tabular summaries of calculated DC and AC magnetic-field levels, respectively.

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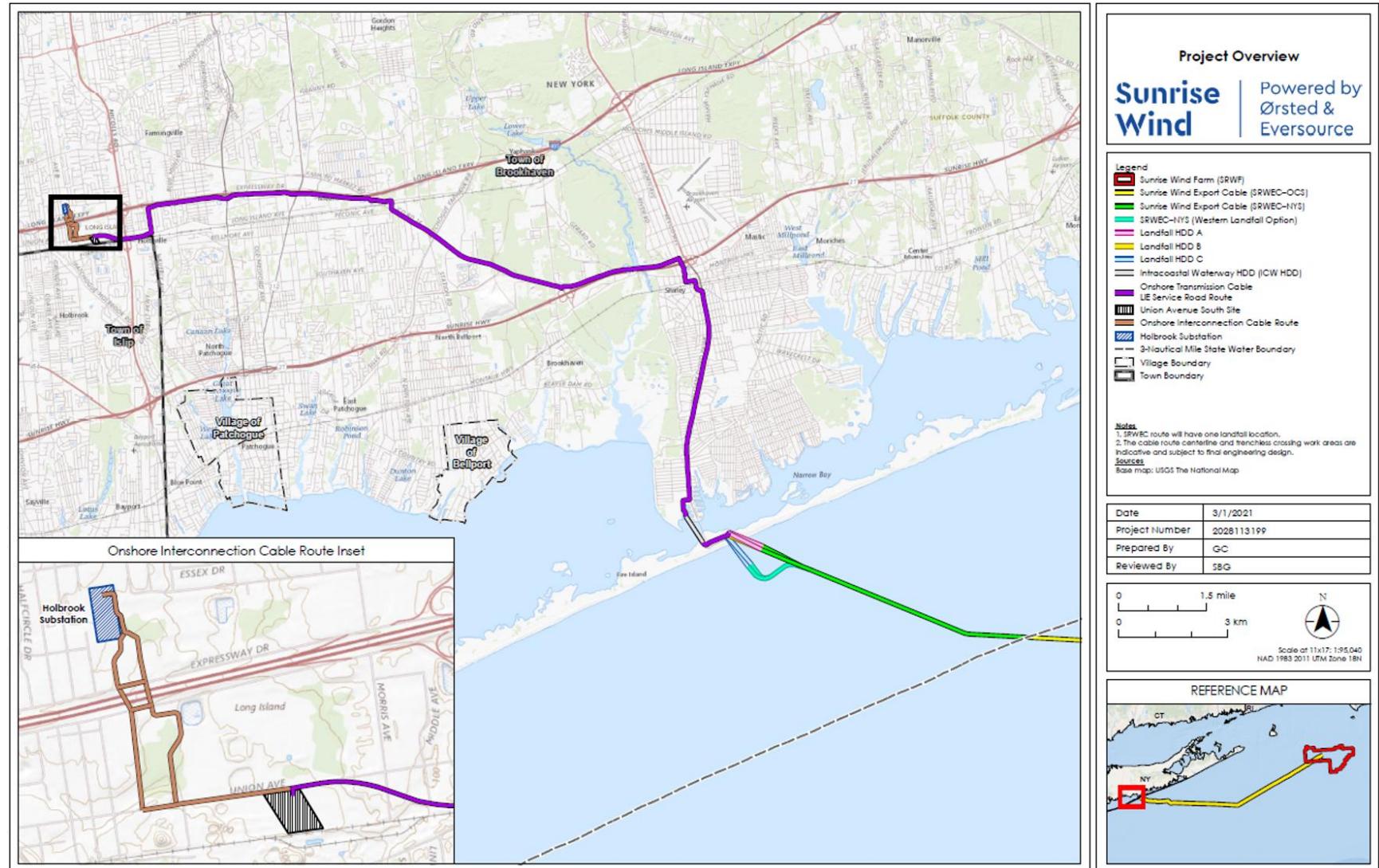


Figure 1. Overview of the SRWEC–NYS and proposed Onshore Transmission Cable and the Onshore Interconnection routes.

A range of Project designs are being considered to allow for assessments of proposed activities and the flexibility to make development decisions prior to construction. The project design envelope (PDE) involves several scenarios with potential magnetic-field effects that are associated with Project infrastructure. This magnetic-field assessment considers the information available at this time; the precise locations and schedule of the construction and operation scenarios may be subject to change as the engineering design progresses.

1.2 Electric and Magnetic Fields

1.2.1 AC and DC Magnetic-Fields

Magnetic fields associated with electricity flowing through cables are reported as magnetic flux density in units of milligauss (mG), where 1 Gauss is equal to 1,000 mG. In some countries and in some technical literature, magnetic fields may be reported as microtesla (μ T), where 1 mG is equal to 0.1 μ T. The DC Project Cables will generate a DC magnetic field (which will vary with power generated but will not change direction as will an AC magnetic field) and the Onshore Interconnection Cable will generate an AC magnetic field for which the direction oscillates 60 times each second (i.e., with a frequency of 60 Hertz [Hz]).

The Earth's natural geomagnetic field (used for compass navigation) is ubiquitous everywhere on earth and is a static (i.e., DC) magnetic field, meaning that it does not vary substantially in strength or direction with time. The DC magnetic field generated by the DC Project Cables will combine by vector addition with the geomagnetic field (i.e. the DC field from the cables may locally increase or decrease the DC geomagnetic field near to the cable).

The voltage applied to the conductors within the cables creates an electric field, but will not be a direct source of any electric field above ground due to the cable's construction, and burial underground, so above-ground electric fields and fields in seawater are not discussed further in this report.

The magnetic fields around the conductors will vary depending on the magnitude of the electrical current—expressed in units of amperes (A)—that flows through the cables. In accordance with the New York Public Service Commission's (NYPSC) Interim Policy guidelines relating to magnetic fields created by Article VII transmission lines, for the purposes of this report the magnetic fields generated by the cables are calculated for a current flow equal to the winter normal conductor (WNC) rating.³

1.2.2 Assessment Criteria

NYS specifies guidelines and limits for AC electric and magnetic fields produced by transmission infrastructure for utility companies seeking Certificates of Environmental Compatibility and Public Need under Article VII for lines operating at voltages of 100 kV or higher. In 1978 the NYPSC established guidelines for AC electric fields generated by new transmission lines in Opinion No. 78-13. However, since the cables considered within this report will not be a direct source of electric field above ground due to the cable's design, construction, duct bank, and burial underground, electric fields are not addressed within this report.⁴ In 1990, the NYPSC established guidelines for AC magnetic-field levels for new transmission lines in its Interim Policy Statement

³ As defined in the Interim Policy Statement on Magnetic Fields (Cases 26529 and 26559 State of New York Public Service Commission, Statement of Interim Policy on Magnetic Fields of Major Electric Transmission Facilities [1990]) the "winter-normal conductor rating ... is the maximum the transmission wires (conductors) can tolerate for an extended time. This rating will produce the maximum magnetic field which can be sustained continuously ..."

⁴ Some marine species have specialized anatomical features that allow them to detect very weak AC or DC electric fields. The Project, therefore included an evaluation of electric fields induced in seawater in order to compare to reported detection thresholds. However, since these induced electric field levels would be approximately 1 million times below the NYPSC limit, they are not included in this assessment.

on Magnetic Fields. This Interim Policy Statement on Magnetic Fields limits the magnitude of AC magnetic fields generated by Article VII transmission lines to 200 mG or less at the edge of the ROW. In addition, this Interim Policy Statement on Magnetic Fields requires that the magnetic-field level is to be assessed at 3.3 ft (1 m) above the ground, with the transmission line operating at a current flow equal to the WNC rating. Although both the 1978 Opinion No. 78-13 and the 1990 Interim Policy Statement on Magnetic Fields were developed specifically for AC fields, Exponent has performed calculations of magnetic fields from the DC portions of the project in general accordance with the direction provided in those documents (i.e., modeling was performed at WNC rating and assessed at height of 3.3 ft [1 m] above ground). In addition, a ROW is not specified for some portions of the route and so all comparisons to the NYPSC limit were performed at a distance of 10 feet from the center of the transmission line, a conservative minimum estimated distance to the ROW edge.

2.0 Cable Configurations and Calculation Methods

The models used to calculate the magnetic field generated by the DC Project Cables and the Onshore Interconnection Cable are described below. The OnCS-DC is not included in this report since the highest magnetic-field levels around the perimeter of these facilities will likely be due to the Onshore Transmission Cable and Onshore Interconnection Cable entering and exiting the substation. This is consistent with Institute of Electrical and Electronics Engineers (IEEE) Standard 1127, which notes:

In a substation, the strongest fields near the perimeter fence come from the transmission and distribution lines entering and leaving the substation. The strength of fields from equipment inside the fence decreases rapidly with distance, reaching very low levels at relatively short distances beyond substation fences (IEEE 2013).

2.1 DC Project Cables

AC power generated by the offshore wind turbines is converted to DC power (at ± 320 kV) at the offshore converter station (OCS-DC) located in federal waters and exported to shore via the SRWEC. The SRWEC-NYS connects to the Onshore Transmission Cable on shore. Exponent modeled the SRWEC-NYS in a submarine configuration where the cables are buried under the seabed as they traverse NYS waters, and also modeled the Onshore Transmission Cable in duct bank and direct bury configurations.

Since the DC magnetic field generated by the DC Project Cables is combined with the Earth's geomagnetic field by vector addition, the relative orientation of these two fields changes the resulting combined field. The value of the total geomagnetic field near the center of the transmission cable route was estimated from the International Geomagnetic Reference Field (IGRF-13) Model⁵ as 506 mG. Further details are included in Attachment B. To calculate DC magnetic-field strength generated by the DC Project Cables, the static magnetic field from DC transmission is calculated by the application of the Biot-Savart Law, which is added to the Earth's geomagnetic-field vector to obtain the total magnetic field.

Evaluating how much the local static magnetic field changes direction as a result of the SRWEC-NYS is another way to describe the effect of the DC cable on the local environment. A compass needle typically points along the direction of the Earth's geomagnetic field, but a new DC magnetic-field source may cause a local deviation in the apparent direction of magnetic north. This deviation was calculated as the compass deflection, which is the difference in angular direction in degrees between the horizontal component of the ambient geomagnetic field and the horizontal component direction of the combined geomagnetic field from the earth and the DC field from the cables.

2.1.1 SRWEC-NYS

The SRWEC-NYS will consist of two cables strapped together and will be buried beneath the seabed⁶ in a trench where they may lay either side-by-side or with one on top of the other. Magnetic fields are also assessed for either direction of current flow. To assess the range of DC magnetic-field levels that could be associated with the cable when oriented in different directions, calculations were performed for two

⁵ https://ccmc.gsfc.nasa.gov/modelweb/models/igrf_vitmo.php

⁶ Results are also provided in Attachment C for surface laid cables covered with protective mattresses. These are expected to cover only a small fraction of the SRWEC-NYS route and will reduce the effective burial depth of the SRWEC-NYS to 1 ft (0.3 m).

representative cable directions and two cardinal directions (north-south and east-west), as addressed in Attachment A. In total, SRWEC–NYS results are calculated for each of four cable and current flow configurations, at a minimum target burial depth of 3.3 ft (1 m), and a total of four geographic directions. Details of the DC modeling methods are provided in Attachment B.

2.1.2 Onshore Transmission Cable

The Onshore Transmission Cable will consist of two cross-linked polyethylene (XLPE) cables (see Attachment A, Figure A-1), each installed in a separate 8-inch (20-centimeter [cm]) polyvinyl chloride (PVC) conduit. Over the majority of the onshore route, the Onshore Transmission Cable will be installed in an underground duct bank as shown in Attachment A, Figure A-2. For short portions of the route, the Onshore Transmission Cable will be installed in a direct bury configuration shown in Attachment A, Figure A-3. A summary of the modeling configurations is provided in Attachment A, Tables A-1 and A-2, and details of the DC modeling methods are provided in Attachment B.

2.2 AC Project Cables

2.2.1 Onshore Interconnection Cable

At the OnCS–DC, the voltage will be converted from DC to 138-kV AC for transmission to the point of interconnection at the Holbrook Substation. The 138-kV Onshore Interconnection Cable will be installed in twin duct banks, separated by an edge to edge distance of 15 ft (4.6 m) (as shown in Attachment A, Figure A-5). Each duct bank will consist of six single-core XLPE cables, as shown in Attachment A, Figure A-2 (two for each phase), each installed in separate 8-inch (20-cm) PVC conduits. A summary of all modeling parameters is provided in Attachment A, Table A-4.

Exponent calculated the magnetic field for Onshore Interconnection Cable using two-dimensional finite element analysis models, including the effects of ground continuity conductors (GCC) as well as algorithms developed by the Bonneville Power Administration (BPA), an agency of the U.S. Department of Energy.

3.0 Modeling Results

3.1 DC Modeling Results for SRWEC–NYS

3.1.1 Magnetic Fields from SRWEC–NYS

The highest total magnetic field at 3.3 ft (1 m) above the seabed over the SRWEC–NYS is 648 mG, which reflects the contribution from the ambient geomagnetic field of 506 mG and a maximum increase of 142 mG from the SRWEC–NYS (the minimum total magnetic field is 365 mG, representing a maximum decrease in the local magnetic-field level of 141 mG). The calculated magnetic-field deviations decrease rapidly with distance from the centerline to ± 45 mG at a distance of ± 10 ft (3 m) from the cable centerline. These calculated deviations are among the lowest of nine DC submarine cables (ranging from approximately 80 to 2,650 mG) reported in Normandeau et al. (2011) which also reviewed the available information on electro- and magnetosensitivity of marine organisms, including elasmobranchs (sharks and rays) and other fish species, marine mammals, sea turtles, and invertebrates to DC magnetic fields.

Graphs of the DC magnetic field as a function of horizontal distance from the various configurations and orientations of the SRWEC–NYS are shown in Attachment C, Figures C-1 to C-4, and tabular results showing the deviation from Earth's geomagnetic field are shown in Attachment C, Table C-1 to C-6, for each cable configuration and orientation. Attachment C, Table C-7, provides the range of calculated magnetic-field deviation from the Earth's ambient geomagnetic field for all cable orientations and configurations together, a summary of which is provided below in Table 1.

Table 1. Calculated DC magnetic-field deviation (mG) from the Earth's ambient geomagnetic field of 506 mG evaluated at various horizontal distances 3.3 ft (1 m) above ground at WNC loading

Configuration*	DC Deviation from the Ambient Geomagnetic Field (mG)					
	-25 ft (-7.6 m)	-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)	+25 ft (+7.6 m)
At 3.3 ft (1m) above seabed	-10 to 10	-37 to 38	22 to 142	-141 to -19	-45 to 45	-8.2 to 8.3

* As shown in Attachment B, the deviation from the Earth's ambient geomagnetic field depends on configuration and geographic orientation of the cables. These results summarize the range of deviations over all assessed configurations and directions, summarized in Attachment A, Table A-1

3.1.2 Compass Deflection from SRWEC–NYS

Maximum computed compass deviations at a height of 3.3 ft (1 m) above seabed are approximately 156 degrees directly over the buried SRWEC–NYS but fall to an absolute value of approximately 12 degrees or less within 10 ft (3 m). Given the large habitats traversed by migrating fish, and the importance of other senses in marine species, a local deviation of a few degrees for such a short distance would not be expected to interfere with the use of the geomagnetic field for navigational purposes by these species. Detailed results of compass deflection calculations are provided in Attachment C, Tables C-8 to C-14 and Figures C-5 to C-8.

3.2 DC Modeling Results for the Onshore Transmission Cable

3.2.1 Magnetic Fields from the Onshore Transmission Cable

At the Onshore Transmission Cable duct bank, the highest total magnetic field at 3.3 ft (1 m) above ground is 928 mG, which reflects the contribution from the ambient geomagnetic field of 506 mG and a maximum change of 422 mG from the DC cables (where the DC duct bank is installed in an east-west direction).

Elsewhere on the route, the DC fields are calculated to reduce the ambient geomagnetic field to a minimum of 101 mG, which reflects the contribution from the ambient geomagnetic field of 506 mG and a maximum change from the DC cables of 405 mG, but with the opposite polarity (i.e., -405 mG). Where the Onshore Transmission Cables are installed via direct bury, the DC magnetic-field levels (and deviations) are much lower due to the greater burial depth; the maximum calculated deviation is approximately 78 mG relative to the Earth's ambient geomagnetic field. These maximum deviations occur close to the duct bank and decrease rapidly with distance such that at ± 10 ft (3 m) from the centerline the maximum magnetic-field deviation is 110 mG or less.

Graphs of the DC magnetic field as a function of horizontal distance from the various configurations and orientations of the SRWEC-NYS are shown in Attachment C, Figures C-9 to C-15, and tabular results showing the deviation from Earth's magnetic field are shown in Attachment C, Table C-15 to C-16, for each cable configuration and orientation. Attachment C, Table C-17, provides the range of calculated magnetic-field deviation from the Earth's ambient geomagnetic field for all cable orientations and configurations together, a summary of which is provided below in Table 2.

Table 2. Calculated DC magnetic-field deviations from the Earth's ambient geomagnetic field of 506 mG evaluated at various horizontal distances 3.3 ft (1 m) above ground and at WNC loading

Configuration*	DC Deviation from the Ambient Geomagnetic Fields (mG)					
	-25 ft (-7.6 m)	-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)	+25 ft (+7.6 m)
DC duct bank	-32 to 32	-86 to 110	67 to 422	-405 to -46	-73 to 100	-31 to 31
DC direct bury	-18 to 19	-51 to 54	10 to 78	-78 to -9.7	-55 to 57	-16 to 17

* As shown in Attachment B, the deviation from the Earth's ambient geomagnetic field depends on the geographic orientation of the cables. These results summarize the range of deviations over all assessed directions, summarized in Attachment A, Table A-2.

3.2.2 Compass Deflection from the Onshore Transmission Cable

Computed compass deviations at a height of 3.3 ft (1 m) above ground are 133 degrees or less directly above the DC duct bank, and 41 degrees or less at 10 ft (3 m) from the centerline. Maximum deviations over the DC direct bury configuration at a height of 3.3 ft (1 m) above ground are lower (14 degrees or less), but decrease somewhat more slowly (a maximum deviation of 8.4 degrees at a distance of 25 ft [7.6 m] from the centerline). Given the ubiquity of navigation systems that do not rely on the Earth's geomagnetic field and the proposed location of the Onshore Transmission Cable, a local deviation of a few degrees for such a short distance would not likely interfere with navigational purposes. Detailed results of compass deflection calculations are provided in Attachment C, Tables C-18 to C-20 and Figures C-16 to C-22.

3.3 AC Modeling Results for the Onshore Interconnection Cable

3.3.1 Magnetic Fields from the Onshore Interconnection Cable

For the Onshore Interconnection Cable, the calculated AC magnetic-field levels are summarized below in Table 3. The calculated magnetic-field level decreases rapidly with distance from the individual duct banks. The calculated magnetic-field at a height of 3.3 ft (1 m) directly above the Onshore Interconnection Cable is 65 mG, decreasing to 63 mG and 21 mG, at a distance of ± 10 ft (± 3 m) and ± 25 ft (± 7.6 m), respectively, from the duct bank centerline.⁷

A graph of the AC magnetic field as a function of horizontal distance from the Onshore Interconnection Cable is shown in Attachment C, Figure C-23, and tabular results are shown in Attachment C, Table C-21.

Table 3. Calculated AC magnetic-field levels (mG) at various horizontal distances 3.3 ft (1m) above ground at WNC loading

Configuration	AC Magnetic Fields (mG)*				
	-25 ft (-7.6 m)	-10 ft (-3 m)	Max	+10 ft (+3 m)	+25 ft (+7.6 m)
AC 138-kV Interconnection	21	63	65	63	21

* As shown in Attachment A, Figure A-5, for the AC interconnection configurations, the phase cables are divided into two groups (separated by 15 to 20 ft [4.6 to 6 m]). The horizontal distance is measured from the center of the two duct banks comprising the Onshore Interconnection Cable.

⁷ Field levels decrease very rapidly with distance from the individual duct banks; however since there are two duct banks separated by 15 ft (4.5 m) the decrease appears locally to be slower, as 10 feet from the centerline is within 5 feet of a duct bank.

4.0 Conclusions

The calculated DC magnetic-field levels for the Onshore Transmission Cable and the SRWEC–NYS cause local changes to Earth's geomagnetic field. These changes in the Earth's geomagnetic field decrease rapidly with distance from the DC Project Cables. For the SRWEC–NYS, at a horizontal distance of ± 10 ft (± 3 m) the maximum magnetic-field deviations at a height of 3.3 ft (1 m) above seabed at WNC rating are 10 mG or less. For the Onshore Transmission Cable, at a horizontal distance of ± 10 ft (± 3 m), the maximum magnetic-field deviations at a height of 3.3 ft (1 m) above ground at WNC rating are 110 mG or less and are still lower at greater distances. The maximum calculated AC magnetic-field level directly above the Onshore Interconnection Cable at a height of 3.3 ft (1 m) at WNC rating is 65 mG, decreasing to 21 mG or less at a horizontal distance of 10 ft (3 m), and thus complies with the 200 mG limit for AC magnetic fields set by the NYPSC. At a horizontal distance of ± 10 ft (± 3 m) from the respective cable centerline (and beyond), all calculated AC magnetic-field levels and DC magnetic-field deviations are below 200 mG.

The AC and DC magnetic fields associated with the operation of equipment within the OnCS–DC were not calculated, as fields from these sources can be expected to be at minimal levels outside the perimeter of the OnCS–DC. Therefore, the dominant sources of magnetic fields at the OnCS–DC perimeter will be the new underground Onshore Transmission Cable and Onshore Interconnection Cable.

The Onshore Transmission Cable and Onshore Interconnection Cable will not be a direct source of any electric field above ground due to the cable construction, duct bank, and burial underground.

5.0 References

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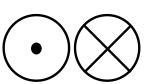
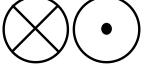
Attachment A

Duct Bank Cross Section and Cable Configurations

Offshore Export Cable (SRWEC–NYS)

The modeling cases for the SRWEC–NYS are summarized in Table A-2. Modeling was performed for each of four cable and current flow configurations at WNC rating for two burial depths and four geographic directions.

Table A-1. Summary of offshore modeling of ± 320 kV DC configurations

DC Modeling Cases	Cable Diameter (mm)*	Current Flow Direction†	Burial Depth (To the Top of the Cable)	Geographic Directions‡ (Degrees ($^{\circ}$) North of East)
Side-by-Side Installation	150		3.3 ft (1 m) 1 ft (0.3 m)§	Cable Route: 30° and 356° (north-south and east-west)
			3.3 ft (1 m) 1 ft (0.3 m)§	Cable Route: 30° and 356° (north-south and east-west)
Cables Stacked Installation	150		3.3 ft (1 m) 1 ft (0.3 m)§	Cable Route: 30° and 356° (north-south and east-west)
			3.3 ft (1 m) 1 ft (0.3 m)§	Cable Route: 30° and 356° (north-south and east-west)

* Since cables are strapped together, a larger cable diameter will result in higher field levels than a smaller cable. Modeling was performed for a 150-mm cable diameter, larger than the proposed ± 320 kV cable to conservatively overestimate field values

† The current flow options are shown as vectors into and out of the page with reversed configurations each representing a separate modeling case.

‡ North-south (90°) and east-west (0°) also are included to provide an estimate of values for other similar directions. All configurations are assessed to determine the highest expected field level for each geographic direction.

§ Modeling in Attachment C is presented for a burial depth of 3.3 ft (1 m) and for the case where the SRWEC–NYS may potentially be laid on the surface of the seabed and covered with a 1-ft (0.3-m) thick protective mattress.

Onshore Transmission Cables

Table A-2. Summary of Onshore Transmission Cable model configurations

Configuration	1	2
Description	Onshore Transmission Cable (Duct Bank)	Onshore Transmission Cable (Direct Bury)
Source Capacity	1200 Megawatts (MW)	
Voltage (DC)	± 320 kV*	
WNC Loading per Cable*	2108.4 A	
Number of Cables	2 (positive and negative poles)	
Phase Cable Type, Outer Diameter (OD)	XLPE: 5.6-inch OD (142.2 millimeter [mm])	
Horizontal Conduit Spacing	19.25-inches (489 mm)	
Geographic Orientation (Degrees North from East)	30° and 75° 110° and 155° north-south east-west	
Burial Depth	3 ft (0.9 m)	15 ft (4.6 m)
Evaluation Height	At 3.3 ft (1 m) above ground	

* The polarity of current flow affects calculated results. Therefore, both polarities have been assessed (i.e., left cable carrying current towards the OnCS-DC and right cable carrying current away from the OnCS-DC and vice-versa).

Onshore Interconnection Cable

Table A-3. Summary of Onshore Interconnection Cable model parameters.

Description	Onshore Interconnection Cable
Source Capacity	880 MW
Voltage (AC)	138 kV
WNC Loading per Cable	1150 A
Number of Cables	12 (4 of each phase)
Separation between Duct Banks or Conduits	15 ft (4.6 m)
Phase Cable Type: OD	Single-core XLPE, 4.9-inch OD (123.2 mm)
Phase Conductor Diameter	2.5-inches (64.5 mm)
GCC Cable Type: OD	750 kcmil copper, 1.2-inch OD (30.5 mm)
Burial Depth	3 ft (0.9 m)
Evaluation Height	At 3.3 ft (1 m) above ground

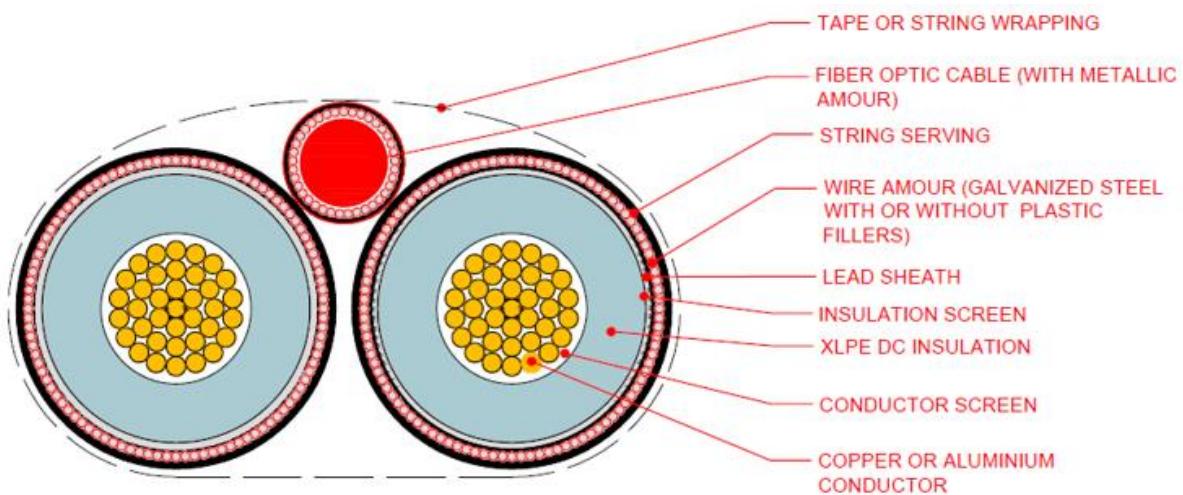


Figure A-1. Illustrative cross section of a bundled pair of single core DC submarine cables.

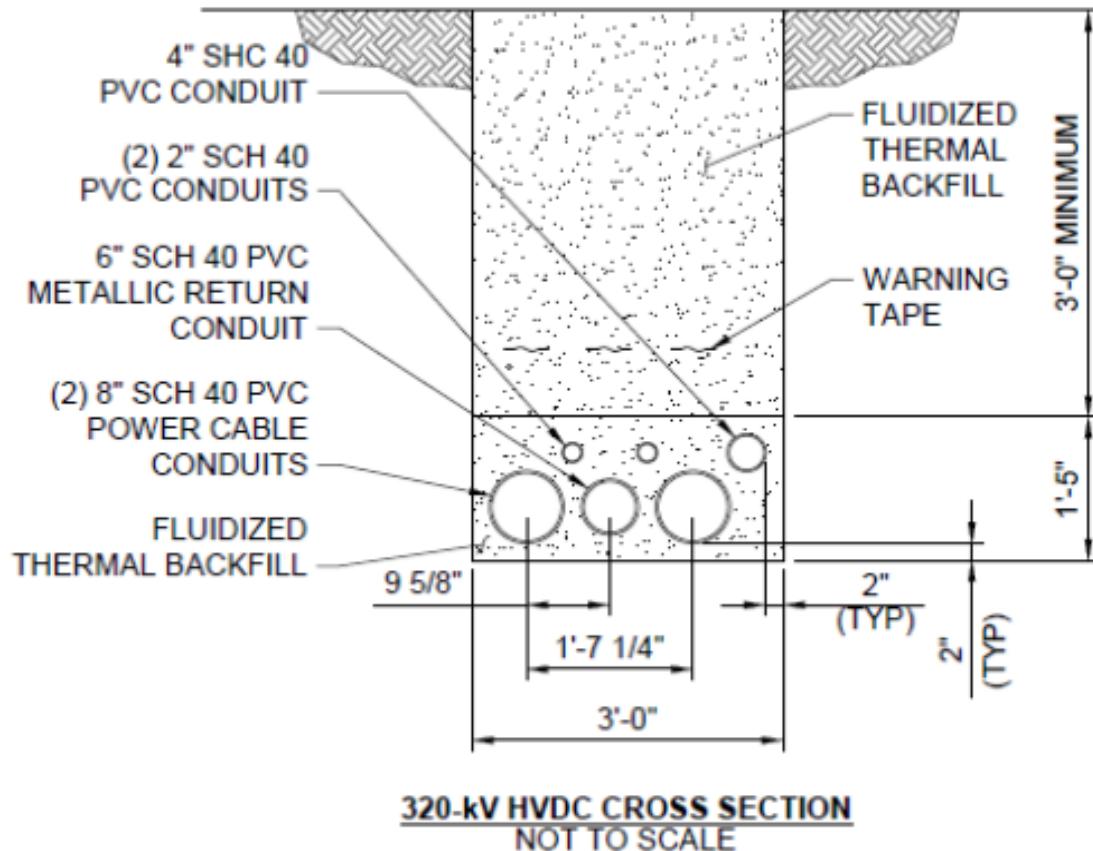


Figure A-2. Onshore Transmission Cable in duct bank configuration.

The center conduit may include a third, smaller conductor to be used in contingency scenarios when one pole (either the positive or negative conductor) of the Onshore Transmission Cable needs to be taken out of service, such as for maintenance. Field levels during maintenance would be expected to be lower due to lower current capacity of the third conductor, as well as the smaller spacing between cables. The conductor shown in the third conduit was not included in any calculations.

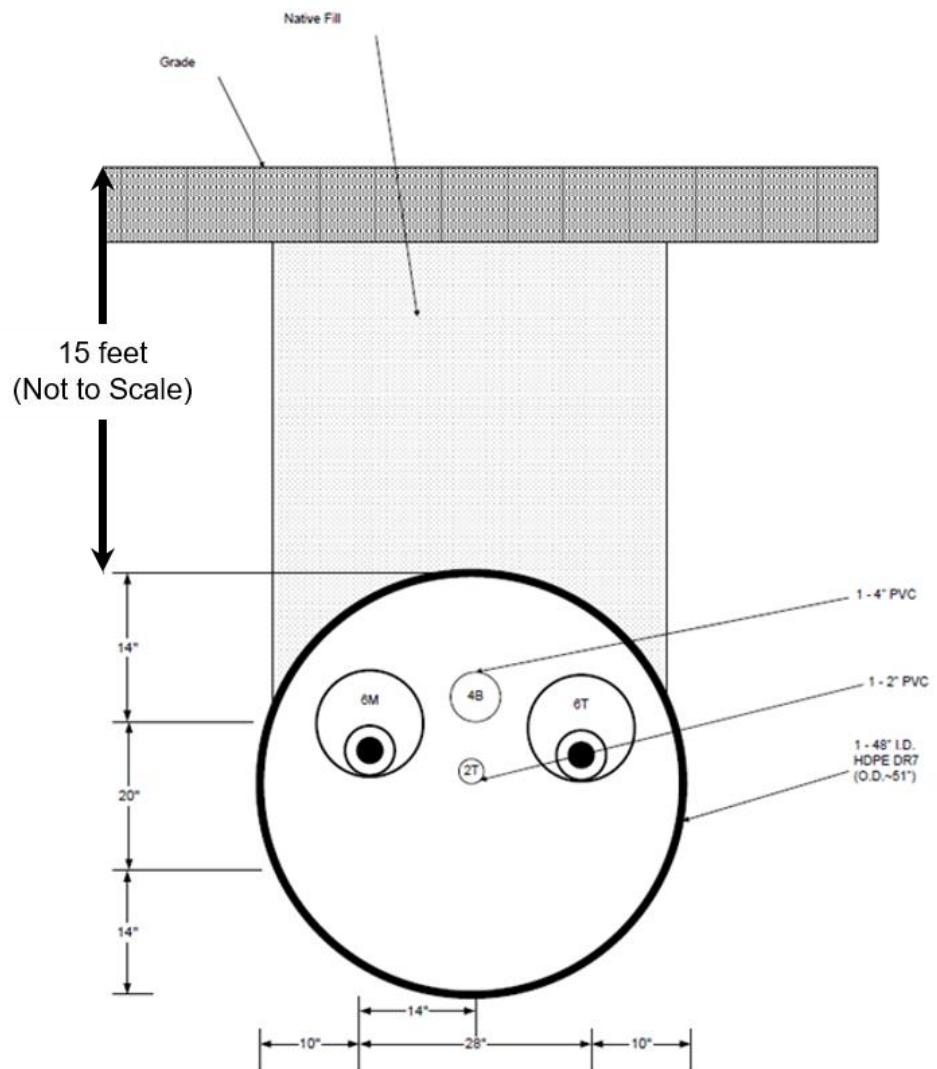


Figure A-3. Onshore Transmission Cable in direct bury configuration.

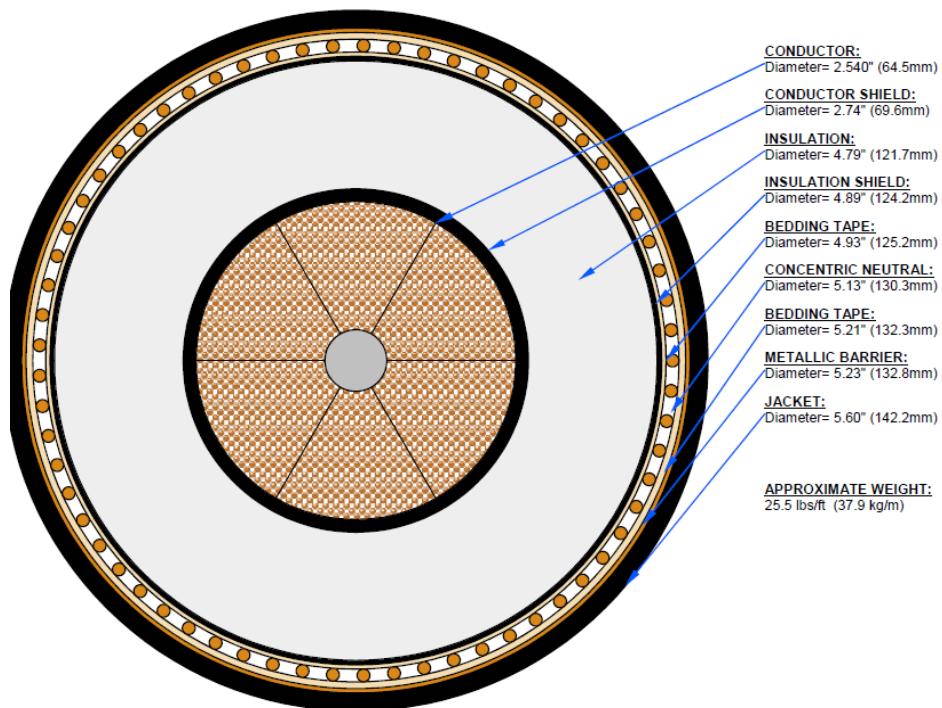


Figure A-4. Illustrative cross section of an onshore single-core cable.

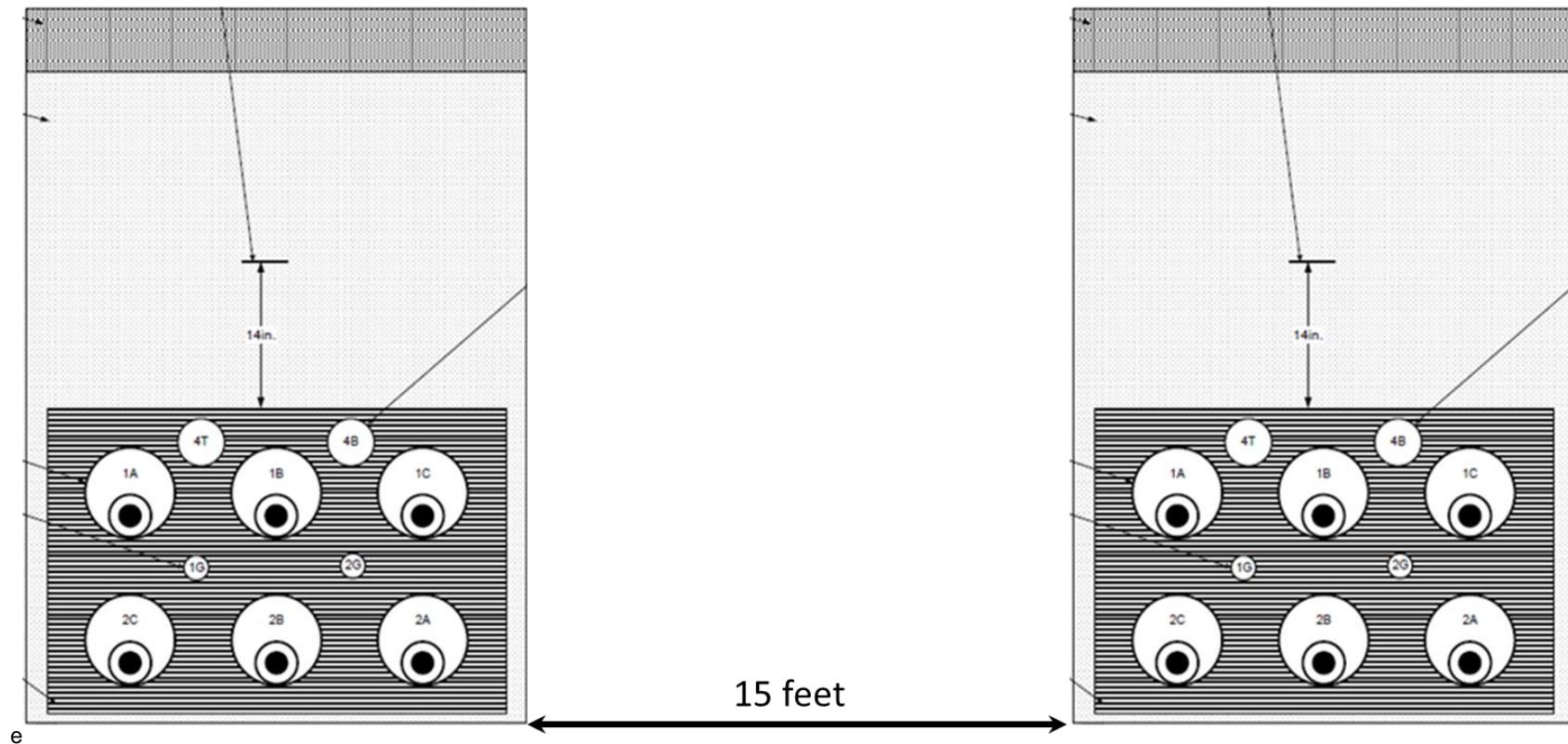


Figure A-5. AC 138-kV Onshore Interconnection Cable in twin duct bank configurations.

For each duct bank, the Onshore Interconnection Cable line is proposed to be installed with two conductors per phase, with the phasing arrangement of the conductors selected to minimize magnetic fields above ground (as shown above). Two GCCs will be installed in 2-inch conduits.

Attachment B

Calculation Methods

DC Magnetic-Field Modeling Methods

Since the DC magnetic fields generated by the DC Project Cables are combined with the Earth's geomagnetic field by vector addition, the relative orientation of the field from the cables and the geomagnetic field changes the resulting combined field. To assess the range of DC magnetic-field levels that could be associated with the cables when oriented in different directions, calculations were performed for various representative cable directions as discussed below.

In addition, since it is possible for the direction of current flow to change during operation (i.e., which cable will carry current towards the OCS–DC, and which will carry current away from the OCS–DC), both options were assessed. The interaction of the DC magnetic-field vectors from the cable with the Earth's geomagnetic field vectors will yield different results for each segment of the onshore routes.

SRWEC–NYS

For the SRWEC–NYS, two directions are considered as illustrated in Figure B-1—one that runs ~30 degrees north of east, and one that runs ~356 degrees north of east.

Onshore Transmission Cable

For the Onshore Transmission Cable, six representative cable directions were modeled as shown in Figure B-1. Representative cable directions included two between Fire Island and where the route turns west (75 and 110 degrees east of north); two in a general westerly direction (30 and 155 degrees east of north), one along a north-south orientation, and one in an east-west orientation to provide additional bounds on the calculated field levels.

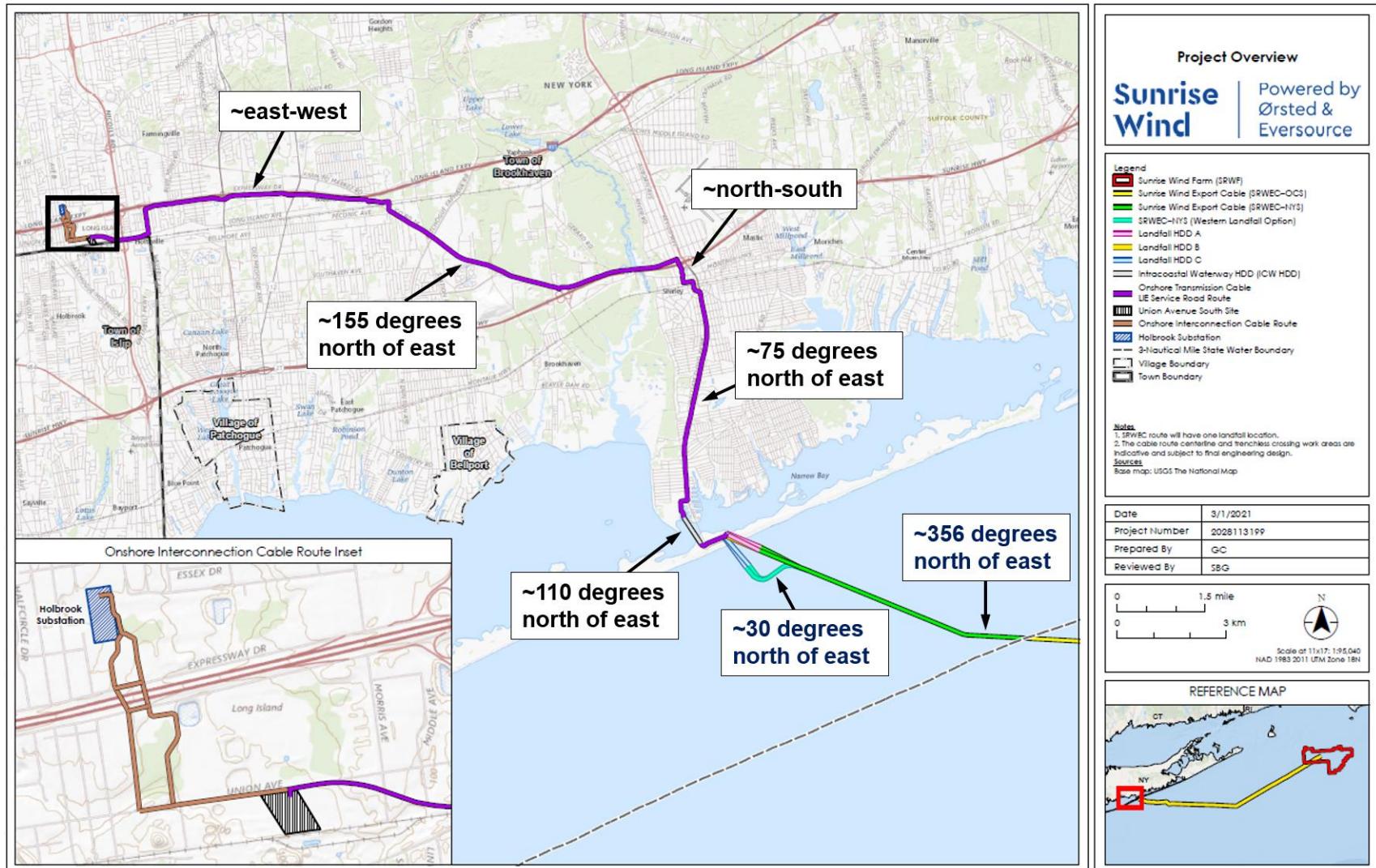


Figure B-1. Geographic orientation of SRWEC-NYS, Onshore Transmission Cable and Onshore Interconnection Cable routes.

Earth's Geomagnetic Field

The total DC magnetic field near the DC Project Cables depends on the magnitude and direction of the DC magnetic field from the cables, as well as the strength and direction of Earth's ambient geomagnetic field. The strength of Earth's ambient geomagnetic field was obtained from the International Geomagnetic Reference Field (IGRF-13) Model.⁸ The geomagnetic field at 40.83°N, 71.53°W (approximately at the center of the SRWEC route) is used in all calculations, corresponding to the geomagnetic components shown in Table B-1. At this location, the geomagnetic field has a –14-degree declination (westward of geographic north) and a 65.8-degree inclination (downward). Although the location corresponding to this geomagnetic field is not in NYS waters, the value at this location was used as a consistent baseline for all calculations both offshore and onshore. Furthermore, variation of the geomagnetic field between this location and the onshore landing region route would alter the reported ambient geomagnetic-field value by less than 0.5%.

Table B-1. Geomagnetic magnetic field at coordinates 40.83°N, 71.53°W

Component	Geomagnetic field (mG)
Northern component	205 mG
Eastern component	–5.0 mG
Downward component	459 mG
Total geomagnetic field*	506 mG

*Total geomagnetic field is calculated as the square root of the sum of the components squared

Magnetic-Field Strength

DC current flowing through a conductor results in a DC (i.e., static) magnetic field. The static magnetic field from the DC current is calculated by the application of the Biot-Savart Law, which is derived from fundamental laws of physics. Application of the Biot-Savart Law is particularly appropriate for long straight conductors such as the Onshore Transmission Cable for which analytical solutions are straightforward and are given by the formula:

$$|B| = \mu_0 |H| = \frac{\mu_0 I}{2\pi r}$$

where B is the magnetic flux density, μ_0 is the magnetic permeability of a vacuum, I is the magnitude of the current, and r is the distance from each cable conductor. In order to calculate the total magnetic field, the calculated magnetic-field vector from the Onshore Transmission Cable is added to Earth's geomagnetic-field vector.

Compass Deflection

The strength of the total DC magnetic field due to the combined field from the DC Project Cables and the Earth's geomagnetic field is one way to describe the effect of the DC Project Cables on the local environment, another is evaluating how much the Earth's local geomagnetic field changes direction as a result of the DC Project Cables. For example, a compass needle typically points along the direction of the horizontal component of Earth's geomagnetic field, but a new DC magnetic-field source may cause a local deviation to a new apparent direction of magnetic north around the cable. Here, this deviation is calculated as the compass deflection, which is the difference in angular direction in degrees between the horizontal component of the

⁸ https://ccmc.gsfc.nasa.gov/modelweb/models/igrf_vitmo.php

ambient geomagnetic field and the horizontal component direction of the combined DC geomagnetic field from the earth and from the Onshore Transmission Cables.

AC Magnetic-Field Modeling Methods

For the Onshore Interconnection Cable, magnetic-field levels were calculated using the commercial software package COMSOL MultiPhysics Version 5.5, which is a finite element analysis solver and simulation suite, as well as algorithms developed by the BPA, an agency of the U.S. Department of Energy, for modeling AC transmission lines. The conductor locations were determined with the assumption that each cable rests at the bottom of its containing conduit. All conductors were modeled as straight, parallel to one another, and infinite in extent below a flat ground.⁹ The proximity of the GCCs to the phase conductors results in an induced current flowing on the GCCs, which in turn is the source of an opposing magnetic field. This current on the GCCs was calculated from COMSOL and included in the BPA calculations to determine the total magnetic field including currents from both phase cables and GCCs. Magnetic-field levels were calculated by assuming the WNC rating on the cables.

Magnetic-field levels are reported at 3.3 ft (1 m) above ground as the maximum field magnitude along the major axis of the polarization ellipsoid, in accordance with the NYPSC 1990 Interim Policy Statement on Magnetic Fields. Magnetic-field levels are reported out to a distance of ± 75 ft (± 23 m) from the centerline of the duct bank with results out to ± 500 ft (± 150 m) provided in Attachment F

⁹ The effects of current imbalance, sheath currents, ground currents, and cable materials surrounding the copper conductor, including ferromagnetic shielding effects and eddy currents, were not modeled. It was further assumed there would be no attenuation of magnetic fields by any surrounding materials (e.g., the duct bank, the earth, etc.).

Attachment C

Calculated Magnetic Fields and Compass Deflection

SRWEC–NYS

Magnetic Fields from SRWEC–NYS

The magnetic field was calculated for two cable directions, plus north-south and east-west. The cable directions 30 degrees north of east and 356 degrees north of east correspond to the Project's general cable route. For each of the cable orientations, the magnetic field was calculated for each of the four cable configurations, using loading levels equal to WNC rating.

Figure C-1 shows that the configuration of the cables (i.e., side by side or stacked on top of one another) and current direction both have significant effects on the total calculated field level. Each of the sub-plots within this figure shows three curves. The dashed gray line is value of Earth's ambient geomagnetic field at the location of the cable. The solid blue line is the total magnetic-field level (SRWEC–NYS + Earth's geomagnetic field) calculated at the seabed, while the solid orange line is the total magnetic-field level calculated at 3.3 ft (1 m) above the seabed.

For cables laid side by side (top two plots of Figure C-1), if the cable on the right carries current toward the OnCS–DC, the net effect near the cables is to decrease the total magnetic-field level near the cables (top-left figure). If the current direction reverses so that the cable on the left carries current toward the OnCS–DC, the net effect near the cables is to *increase* the total magnetic-field level near the cables. Similarly, if the cables lay beneath the seabed stacked on top of one another (bottom two figures in Figure C-1), then the total magnetic-field level will be increased on one side of the cable and decreased on the other (depending on the direction of current flow).

While Figure C-1 shows the total magnetic-field level ($B_{\text{total}} = B_{\text{cable}} + B_{\text{earth}}$), Table C-1 shows the *difference* (or deviation) between the total field (including the cable) and Earth's ambient geomagnetic field ($B_{\text{deviation}} = |B_{\text{total}} - B_{\text{earth}}|$), which provides a summary of the *deviation* of the total magnetic-field level from the ambient geomagnetic field *evaluated at a height of 3.3 ft (1 m) above the seabed*.¹⁰ The first four rows of Table C-1 show the maximum positive deviation '(+) Max', maximum negative deviation '(-) Max' and the deviation at ± 10 ft (± 3 m) from the SRWEC–NYS centerline. For example, the first row of Table C-1 corresponds to the solid orange line (the top-left plot) in Figure C-1. The maximum negative deviation from Earth's geomagnetic field (-141 mG) is similar to the maximum positive deviation (+142 mG). At a distance of -10 ft (-3 m) from the SRWEC–NYS centerline, the maximum absolute deviation is 34 mG, while at +10 ft (+3 m) from the SRWEC–NYS centerline, the maximum absolute deviation is 45 mG.

Table C-2 shows similar results for the other geographic orientation of the cable route (356 degrees north of east) as well as for the east-west and north-south orientations. Detailed results corresponding to every geographic orientation evaluated at the seabed and 3.3 ft (1 m) above the seabed for both buried and mattress-covered cables are presented below in Tables C-3 to C-7, and graphical results of buried cables are shown in Figures C-1 to C-4.

¹⁰ Tabular results are shown as the deviation from the ambient geomagnetic field because even very far from the cables, the reported values will be ~506 mG (the remaining ambient geomagnetic field), which in tabular form can make it difficult to see the distance at which the effect of the cable on the local geomagnetic field decreases to near background levels.

Sunrise Wind Magnetic-Field Assessment in New York

Table C-1 DC magnetic-field deviation (mG) for a 30° north of east cable orientation at various horizontal distances 3.3 ft (1 m) above the seabed at WNC loading

Installation Type	Configuration	DC Magnetic-Field Deviation (mG)			
		-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)
Buried (3.3 ft)		34	36	-141	0.3
		-32	142	-32	4
		34	110	-64	-45
		-32	69	-106	45
	30° north of east Summary	-32 to 34	36 to 142	-141 to -32	-45 to 45

Table C-2 DC magnetic-field deviation (mG) summary of cable configurations for four cable orientations at various horizontal distances 3.3 ft (1 m) above the seabed at WNC loading

Installation Type	Cable Route	DC Magnetic-Field Deviation (mG)			
		-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)
Buried (3.3 ft)	30° north of east	-32 to 34	36 to 142	-141 to -32	-45 to 45
	356° north of east	-32 to 34	36 to 142	-140 to -32	-45 to 45
	east-west	-32 to 34	36 to 142	-141 to -32	-45 to 45
	north-south	-37 to 38	22 to 136	-129 to -19	-40 to 41

Calculated DC magnetic-field levels in seawater are provided in Tables C-4 to C-7 below, each summarizing the maximum range of the variation in the magnetic-field deviation from ambient for any of the four SRWEC-NYS cable-pair configurations evaluated for four orientations at WNC rating with both buried and mattress-covered cables, as summarized in Attachment A, Table A-2.

The plots in Figures C-2 to C-5 below show the deviation of the magnetic field in the vicinity of the cables from that of the Earth's geomagnetic field for buried cables at a loading value equal to WNC rating with each of the four DC cable-pair configurations.

Table C-3. DC magnetic-field deviation (mG) at various horizontal distances above the buried and mattress-covered SRWEC-NYS for a 30° north of east cable orientation at WNC loading

Installation Type	Location	DC Magnetic-Field Deviation (mG)		
		(+) Max	(-) Max	±10 ft (±3 m)
Buried (3.3 ft [1 m])	Seabed	158 to 531	-443 to -104	-58 to 58
	3.3 ft (1 m) above seabed	36 to 142	-141 to -32	-45 to 45
Mattress-Covered (1 ft [0.3 m])	Top of protective cover	2617 to 4284	-371 to 0	-252 to 255
	3.3 ft (1 m) above protective cover	88 to 324	-315 to -68	-129 to 135

Table C-4. DC magnetic-field deviation (mG) at various horizontal distances above the buried and mattress-covered SRWEC-NYS for a 356° north of east cable orientation at WNC loading

Installation Type	Location	DC Magnetic-Field Deviation (mG)		
		(+) Max	(-) Max	±10 ft (±3 m)
Buried (3.3 ft [1 m])	Seabed	158 to 531	-437 to -103	-58 to 58
	3.3 ft (1 m) above seabed	36 to 142	-140 to -32	-45 to 45
Mattress-Covered (1 ft [0.3 m])	Top of protective cover	2618 to 4284	-368 to 0	-251 to 255
	3.3 ft (1 m) above protective cover	88 to 324	-314 to -68	-129 to 135

Table C-5. DC magnetic-field deviation (mG) at various horizontal distances above the buried and mattress-covered SRWEC-NYS for east-west cable orientation at WNC loading

Installation Type	Location	DC Magnetic Field Deviation (mG)		
		(+) Max	(-) Max	±10 ft (±3 m)
Buried (3.3 ft [1 m])	Seabed	159 to 531	-452 to -105	-58 to 58
	3.3 ft (1 m) above seabed	36 to 142	-141 to -32	-45 to 45
Mattress-Covered (1 ft [0.3 m])	Top of protective cover	2614 to 4284	-376 to 0	-253 to 256
	3.3 ft (1 m) above protective cover	89 to 324	-317 to -69	-129 to 135

Sunrise Wind Magnetic-Field Assessment in New York

Table C-6. DC magnetic-field deviation (mG) at various horizontal distances above the buried and mattress-covered SRWEC-NYS for north-south cable orientation at WNC loading

Installation Type	Location	DC Magnetic-Field Deviation (mG)		
		(+) Max	(-) Max	±10 ft (±3 m)
Buried (3.3 ft [1 m])	Seabed	99 to 521	-286 to -60	-45 to 48
	3.3 ft (1 m) above seabed	22 to 136	-129 to -19	-40 to 41
Mattress-Covered (1 ft [0.3 m])	Top of protective cover	2761 to 4284	-209 to 0	-188 to 231
	3.3 ft (1 m) above protective cover	54 to 315	-263 to -40	-126 to 133

Sunrise Wind Magnetic-Field Assessment in New York

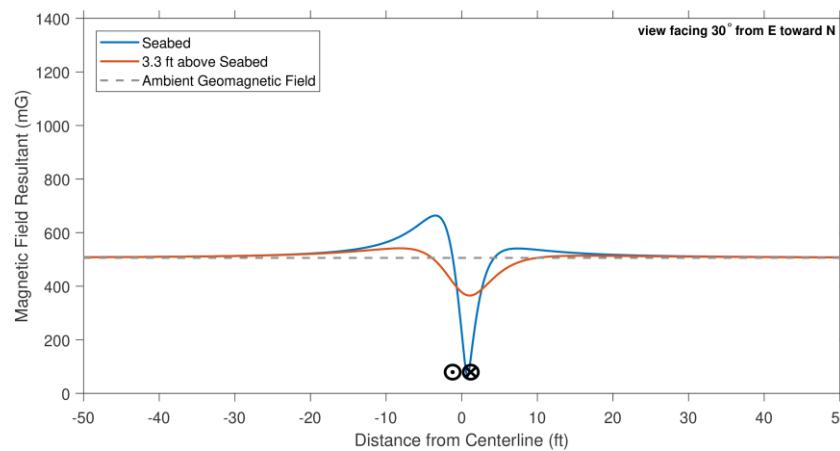
Table C-7. Summary of DC magnetic-field deviation (mG) from background* at various horizontal distances 3.3 ft (1 m) above SRWEC-NYS buried 3.3 ft (1 m) beneath the seabed for all cable configurations and orientations at WNC loading

Evaluation Height	DC Magnetic-Field Deviation (mG)											
	-75 ft (-23 m)	-50ft (-15 m)	-25 ft (-18 m)	-10ft (-3 m)	-5 ft (-1.5 m)	(+) Max	(-) Max	+5 ft (+1.5 m)	+10 ft (+3 m)	+25 ft (+18 m)	+50 ft (+15 m)	+75 ft (+23 m)
At seabed	-1.1 to 1.1	-2.6 to 2.6	-11 to 11	-58 to 58	-135 to 153	99 to 531	-452 to -60	-169 to 171	-53 to 54	-9 to 9	-2.4 to 2.4	-1.1 to 1.1
At 3.3 ft (1 m) above seabed	-1.2 to 1.2	-2.6 to 2.6	-10 to 10	-37 to 38	-90 to 90	22 to 142	-141 to -19	-72 to 77	-45 to 45	-8.2 to 8.3	-2.3 to 2.3	-1.0 to 1.0

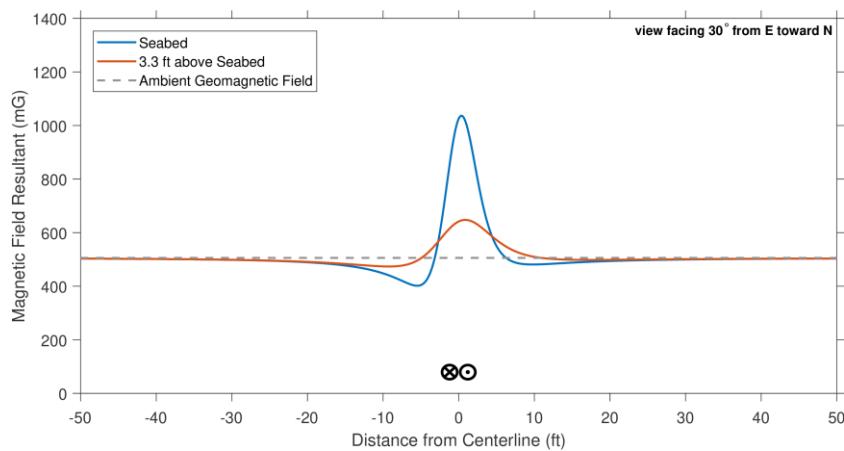
*The geomagnetic field at coordinates: 40.83°N, 71.53°W is approximately 506 mG.

Sunrise Wind Magnetic-Field Assessment in New York

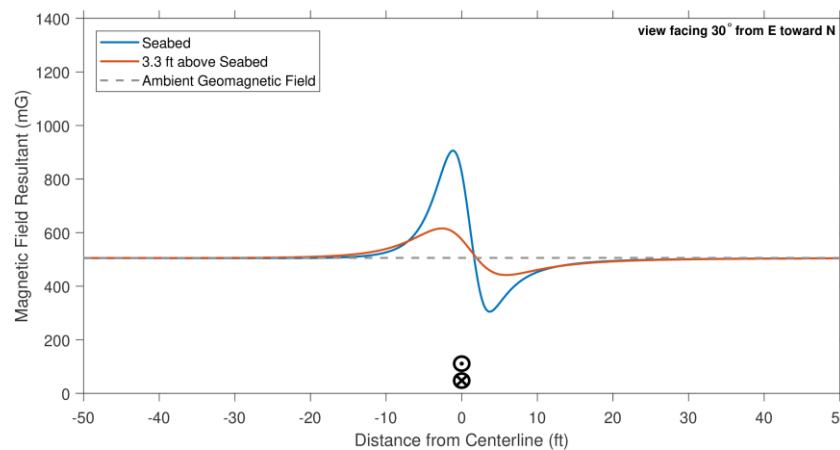
a)



b)



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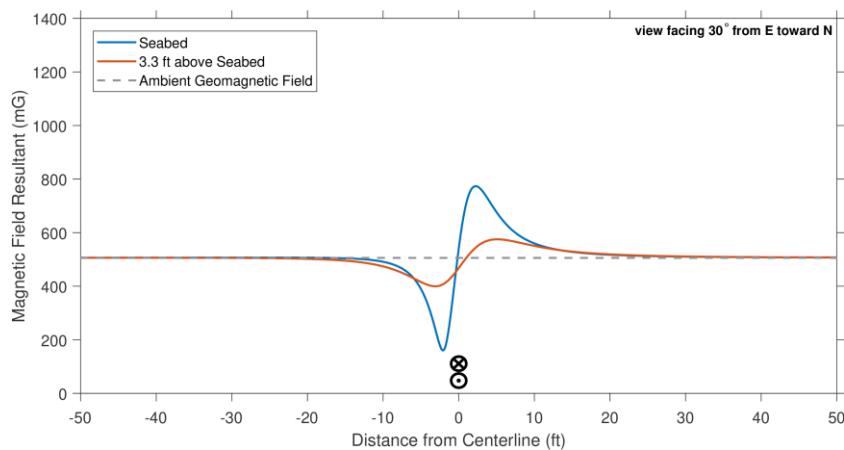
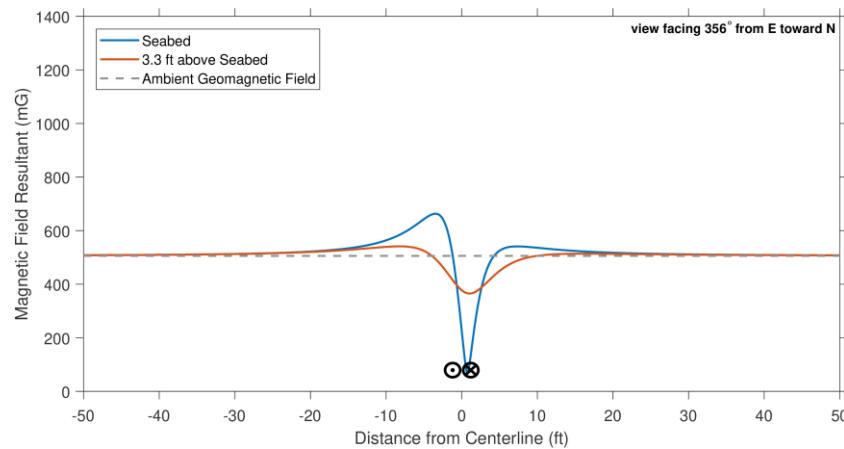


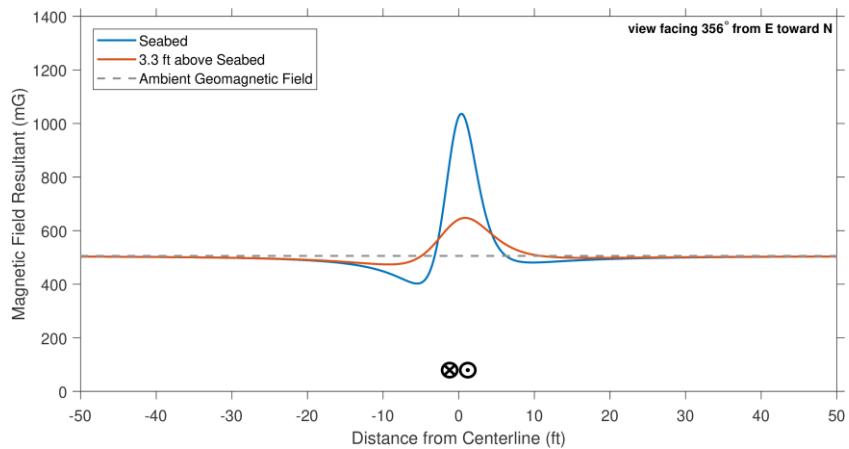
Figure C-1. Total DC magnetic field at WNC loading on the seabed (blue line) and 3.3 ft (1 m) above the seabed (orange line) for four different installation scenarios, indicated by the figure at the bottom center of each plot. In all four plots, the SRWEC–NYS is oriented 30° east of north.

Sunrise Wind Magnetic-Field Assessment in New York

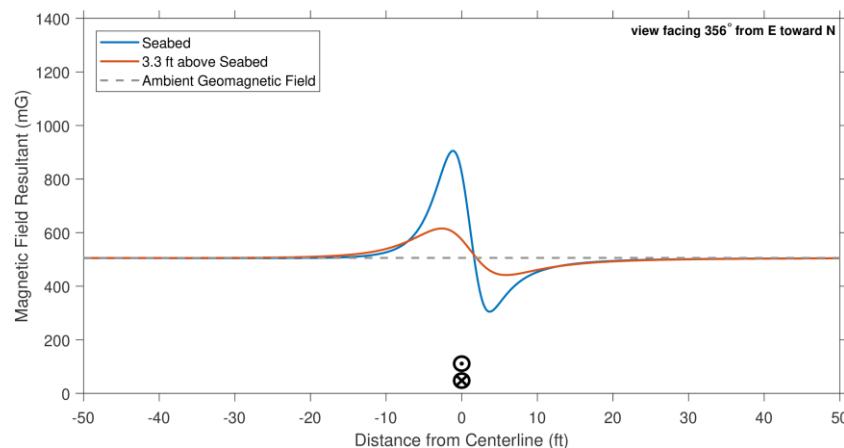
a)



b)



c)



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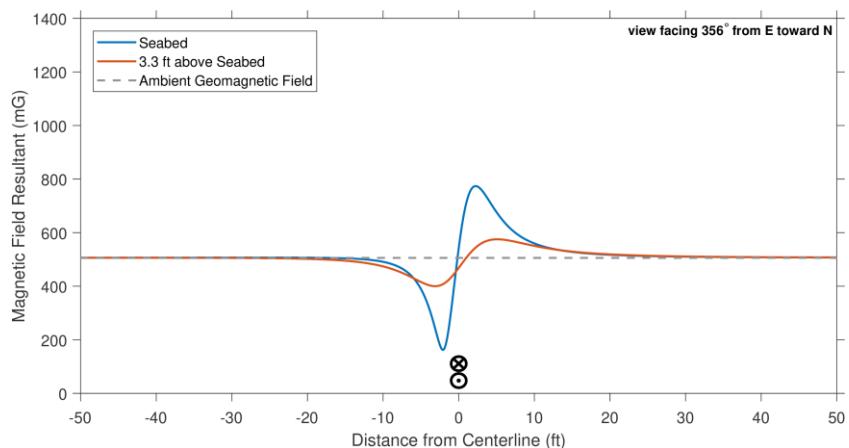


Figure C-2. Total DC magnetic field at WNC loading on the seabed (blue line) and 3.3 ft (1 m) above the seabed (orange line) for four different installation scenarios, indicated by the figure at the bottom center of each plot. In all four plots, the SRWEC–NYS is oriented 356° east of north.

a)

b)

Sunrise Wind Magnetic-Field Assessment in New York

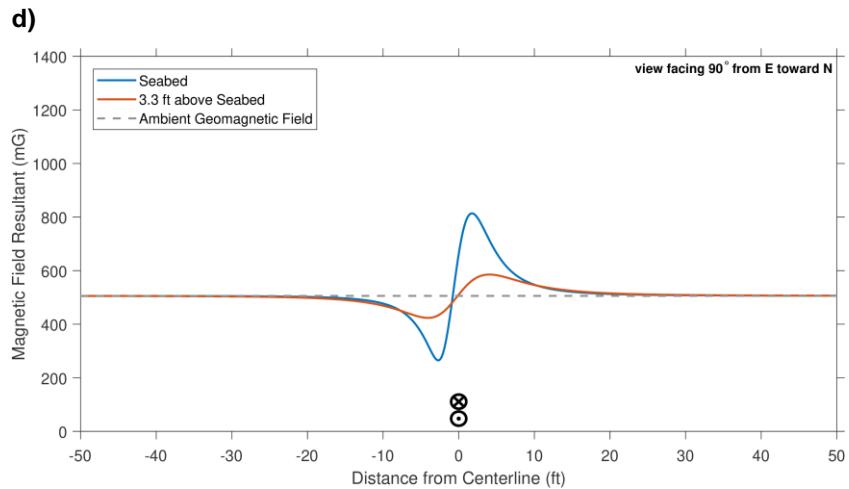
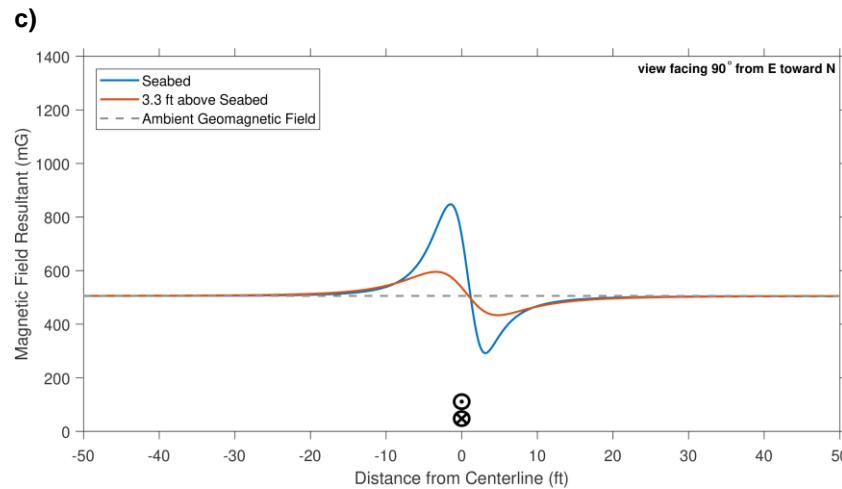
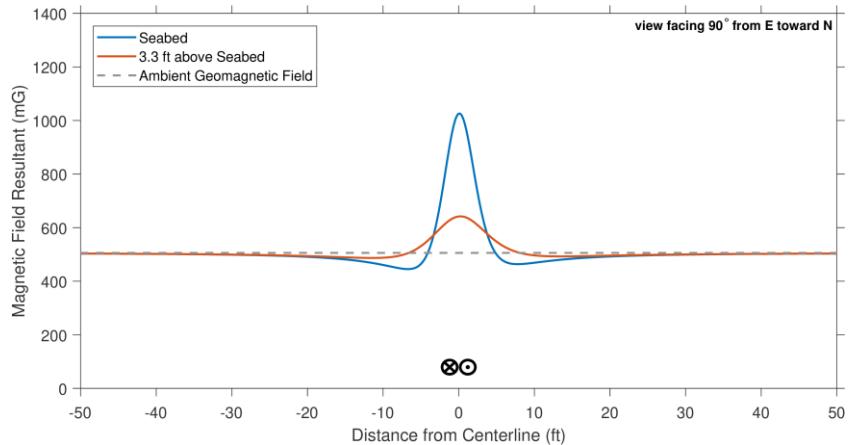
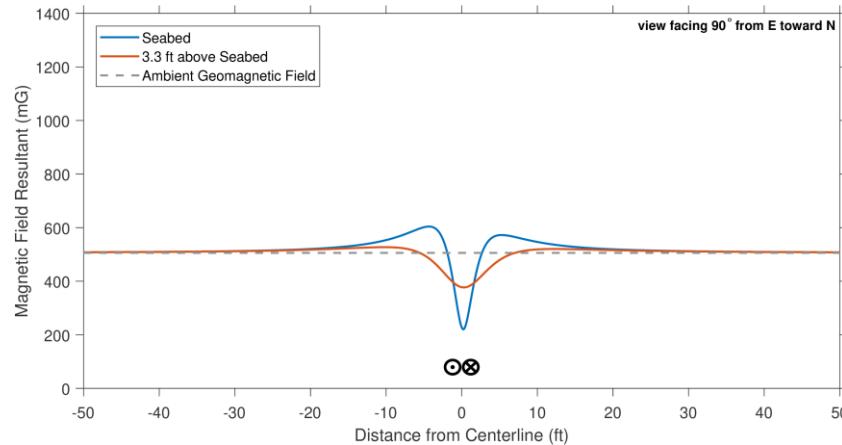
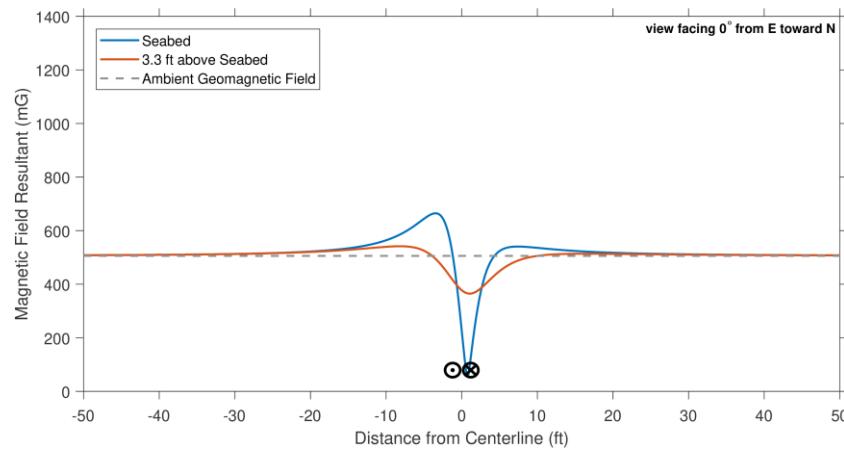


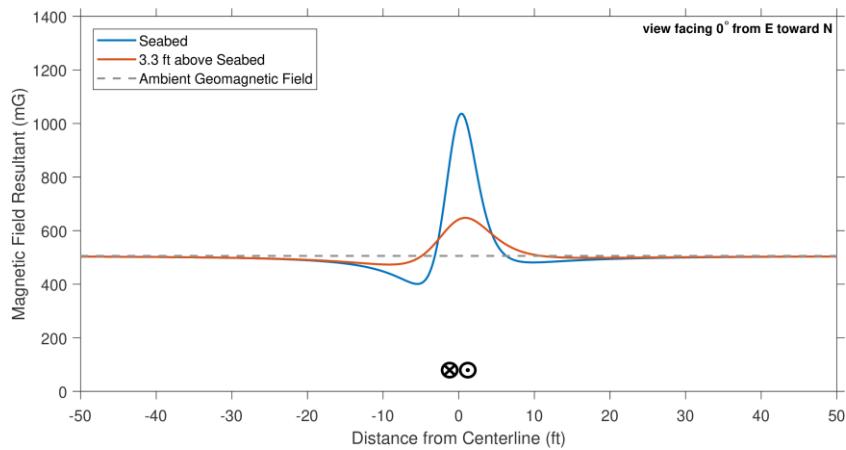
Figure C-3. Total DC magnetic field at WNC loading on the seabed (blue line) and 3.3 ft (1 m) above the seabed (orange line) for four different installation scenarios, indicated by the figure at the bottom center of each plot. In all four plots, the SRWEC–NYS is aligned along the north-south axis.

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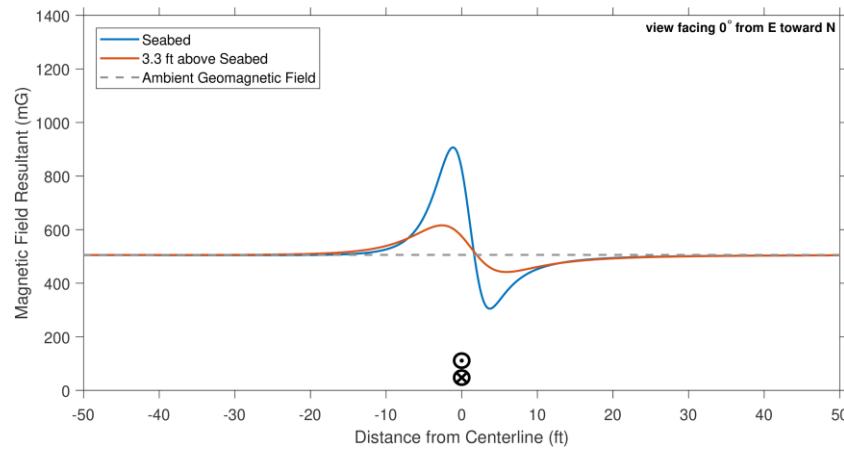
a)



b)



c)



d)

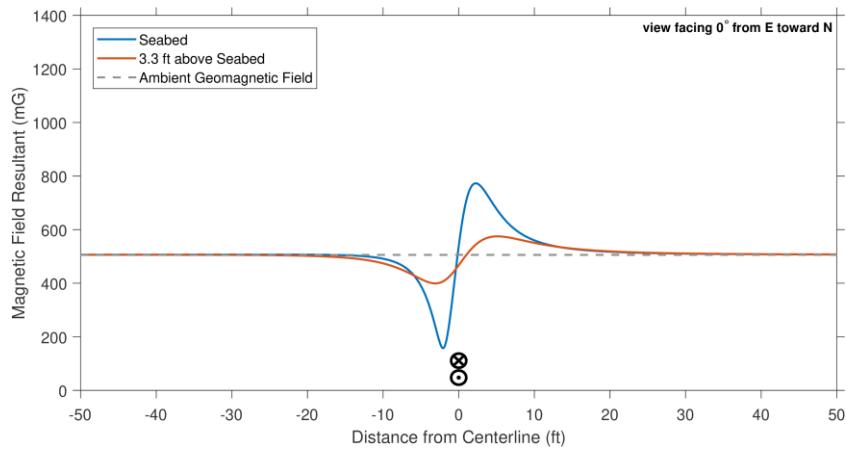


Figure C-4. Total DC magnetic field at WNC loading on the seabed (blue line) and 3.3 ft (1 m) above the seabed (orange line) for four different installation scenarios, indicated by the figure at the bottom center of each plot. In all four plots, the SRWEC–NYS is aligned along the east-west axis.

Compass Deflections from SRWEC–NYS

A compass needle works by pointing along the direction of the Earth's geomagnetic field and a change in the compass direction is sometimes called a compass deflection. Some marine species are known to use the Earth's geomagnetic field for navigation, and mariners have historically used a compass to visualize the alignment of the horizontal component of the Earth's geomagnetic field for navigation. Traditional compasses that rely on the Earth's geomagnetic field may detect a small effect on compass readings above the cables in shallow water that will diminish quickly with distance. Modern navigational instruments that obtain compass readings and locations from global positioning system receivers would not be affected by the Project cables.

To assess the effect of the DC Project Cables on potential biological compass readings by marine species, the deflections of the horizontal component of the total magnetic field from that of the Earth's geomagnetic field were calculated. As an illustrative representation of the results, the plotted data below show the calculated compass deflection for each of the four DC cable configurations when the cables are oriented 30 degrees north of east at a 3.3-ft (1-m) burial depth. These results in Figure C-5 and Table C-8, are presented in a similar manner as Figure C-1 and Table C-1, discussed above, and show that within 10 ft (3 m) of the SRWEC–NYS centerline, compass deviations from zero are approximately 4.1 degrees or less along the cable route. Detailed results of the compass deviation for every configuration and geographic orientation are presented in Tables C-10 to C-13 and graphical results of buried cables are shown in Figures C-5 to C-8. Given the large habitats traversed by migrating fish, and the importance of other senses, a local deviation of a few degrees for such a short distance would not interfere with these species' use of the Earth's geomagnetic field for navigational purposes.

Table C-8. Compass deflection (degrees) for a 30° north of east cable orientation at various horizontal distances 3.3 ft (1 m) above the seabed and at WNC loading

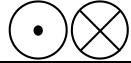
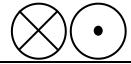
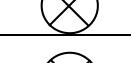
Installation Type	Configuration	Compass deflection (degrees)			
		-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)
Buried (3.3 ft [1 m])		2.7	5.0	-13	-4.1
		-4.1	5.0	-13	2.7
		-1.2	6.4	-1.4	-1.2
		1.1	1.2	-26	1.1
	30° north of east Summary	-4.1 to 2.7	1.2 to 6.4	-26 to -1.4	-4.1 to 2.7

Table C-9. Compass deflection (degrees) summary for the four cable orientations at various horizontal distances 3.3 ft (1 m) above the seabed and at WNC loading

Installation Type	Cable Route	Compass deflection (degrees)			
		-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)
Buried (3.3 ft [1 m])	30° north of east	-4.1 to 2.7	1.2 to 6.4	-26 to -1.4	-4.1 to 2.7
	356° north of east	-3.0 to 4.4	1.5 to 27	-7.0 to -1.3	-3.0 to 4.4

The calculated change (i.e., deflection) in the horizontal component of Earth's ambient geomagnetic field as a result of the SRWEC-NYS are provided in Tables C-21 to C-25 below, indicating the maximum range of the variation in compass deflection for any of the four DC cable-pair configurations evaluated. Results are evaluated for four orientations at WNC rating for buried cables.

The plots in Figures C-22 to C-26 below show the compass deflection in the vicinity of the SRWEC-NYS for buried cables at a loading equal to WNC rating with each of the four SRWEC-NYS cable-pair configurations.

Table C-10. Compass deflection (degrees) summary for a 30° north of east cable orientation at various horizontal distances above buried (3.3 ft [1 m]) SRWEC-NYS and WNC loading

Location	Compass deflection (degrees)			
	-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)
Seabed	-4.2 to 2.8	3.6 to 11	-152 to -6.2	-4.2 to 2.8
3.3 ft (1 m) Above Seabed	-4.1 to 2.7	1.2 to 6.4	-26 to -1.4	-4.1 to 2.7

Table C-11. Compass deflection (degrees) summary for a 356° north of east cable orientation at various horizontal distances above buried (3.3 ft [1 m]) SRWEC-NYS and WNC loading

Location	Compass deflection (degrees)			
	-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)
Seabed	-3.1 to 4.6	6.8 to 149	-12 to -3.9	-3.1 to 4.6
3.3 ft (1 m) Above Seabed	-3.0 to 4.4	1.5 to 27	-7.0 to -1.3	-3.0 to 4.4

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Table C-12. Compass deflection (degrees) summary for east-west orientation at various horizontal distances above buried (3.3 ft [1 m]) SRWEC-NYS and WNC loading

Location	Compass deflection (degrees)			
	-10 ft	(+) Max	(-) Max	±10 ft
Seabed	-2.4 to 3.6	5.3 to 156	-9.6 to -3.0	-2.4 to 3.6
3.3 ft (1 m) Above Seabed	-2.3 to 3.5	1.2 to 23	-5.4 to -1.0	-2.3 to 3.5

Table C-13. Compass deflection (degrees) summary for north-south orientation at various horizontal distances above buried (3.3 ft [1 m]) SRWEC-NYS and WNC loading

Location	Compass deflection (degrees)			
	-10 ft	(+) Max	(-) Max	±10 ft
Seabed	-12 to 11	14 to 55	-78 to -16	-12 to 11
3.3 ft (1 m) Above Seabed	-12 to 11	4.4 to 29	-37 to -4.6	-12 to 11

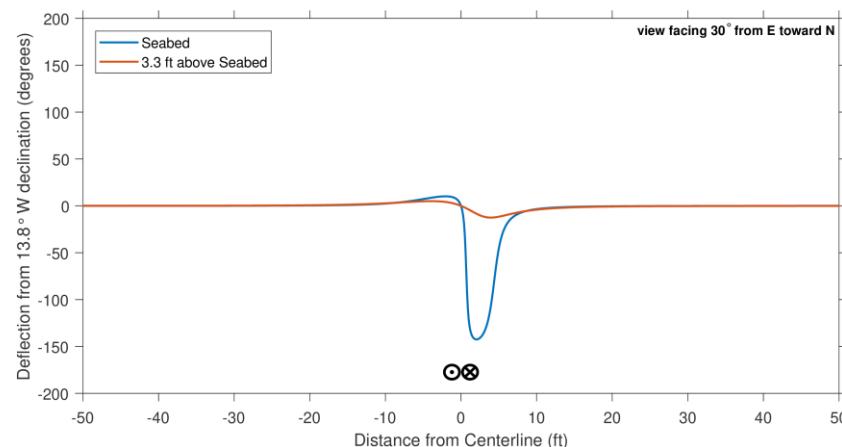
Sunrise Wind Magnetic-Field Assessment in New York

Table C-14. Summary of compass deflection (degrees) at various horizontal distances and 3.3. ft (1 m) burial depth for all cable configurations and orientations at WNC loading

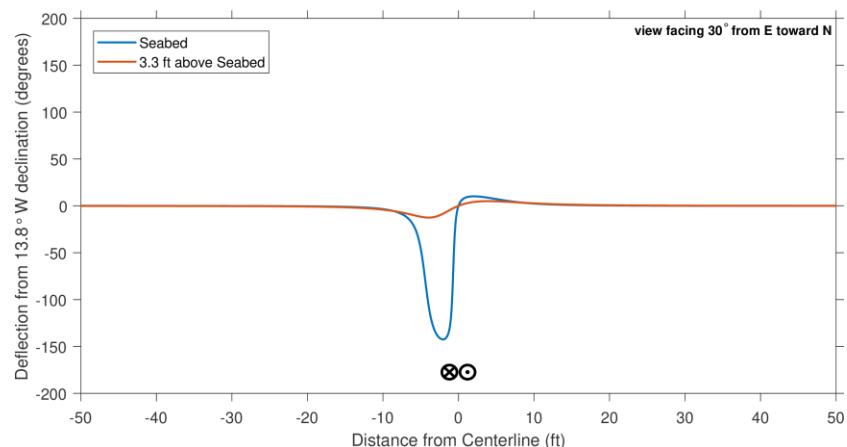
Evaluation Height	Compass deflection (degrees)											
	-75 ft (-23 m)	-50ft (-15 m)	-25 ft (-18 m)	-10ft (-3 m)	-5 ft (-1.5 m)	(+) Max	(-) Max	+5 ft (+1.5 m)	+10 ft (+3 m)	+25 ft (+18 m)	+50 ft (+15 m)	+75 ft (+23 m)
At seabed	-0.3 to 0.3	-0.7 to 0.7	-2.7 to 2.6	-12 to 11	-46 to 47	3.6 to 156	-152 to -3.0	-46 to 47	-12 to 11	-2.7 to 2.6	-0.7 to 0.7	-0.3 to 0.3
At 3.3 ft (1 m) above seabed	-0.3 to 0.3	-0.7 to 0.7	-2.3 to 2.2	-12 to 11	-25 to 21	1.2 to 29	-37 to -1.0	-25 to 21	-12 to 11	-2.3 to 2.2	-0.7 to 0.7	-0.3 to 0.3

Sunrise Wind Magnetic-Field Assessment in New York

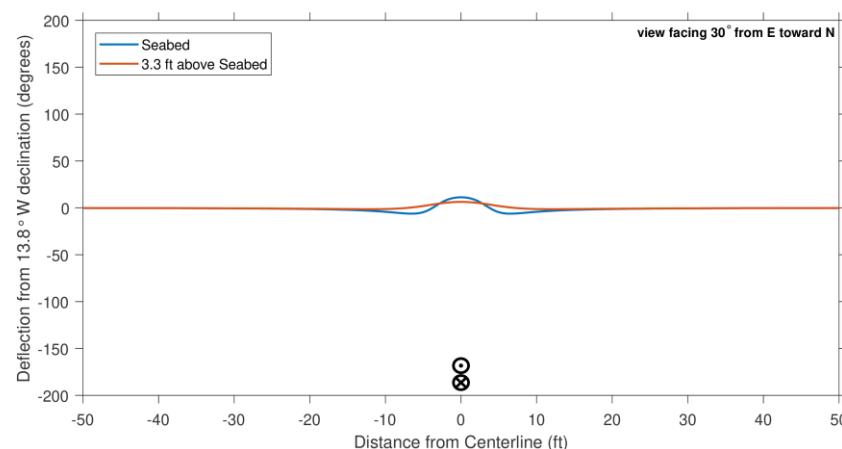
a)



b)



c)



d)

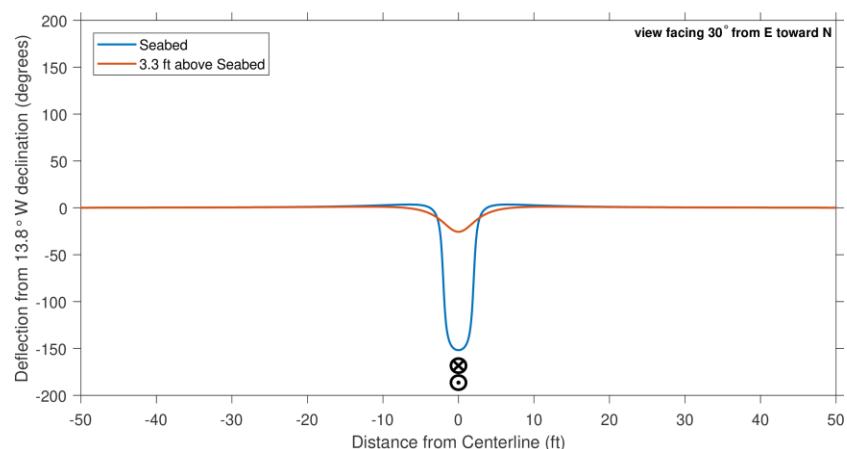


Figure C-5. Compass deflection (degrees) from magnetic north for SRWEC-NYS oriented 30° east of north, calculated at seabed (blue line) and 3.3 ft (1 m) above seabed (orange line) for each of the four DC cable configurations depicted in bottom center inset of each plot.

a)

b)

Sunrise Wind Magnetic-Field Assessment in New York

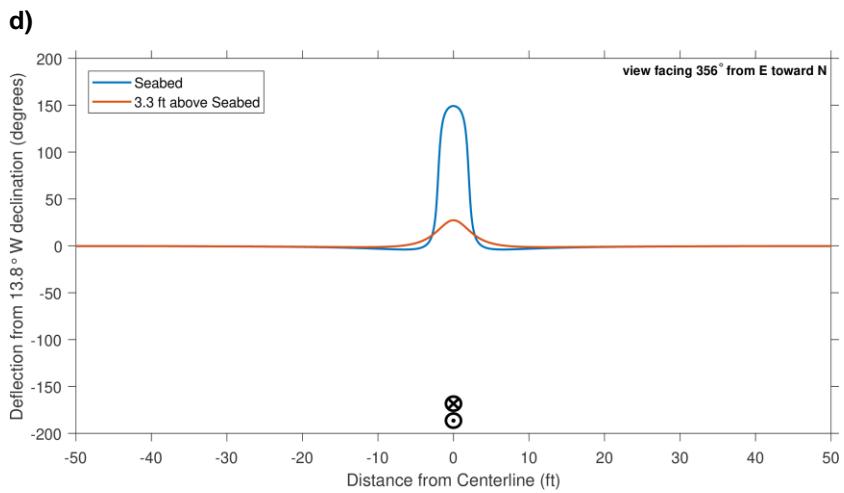
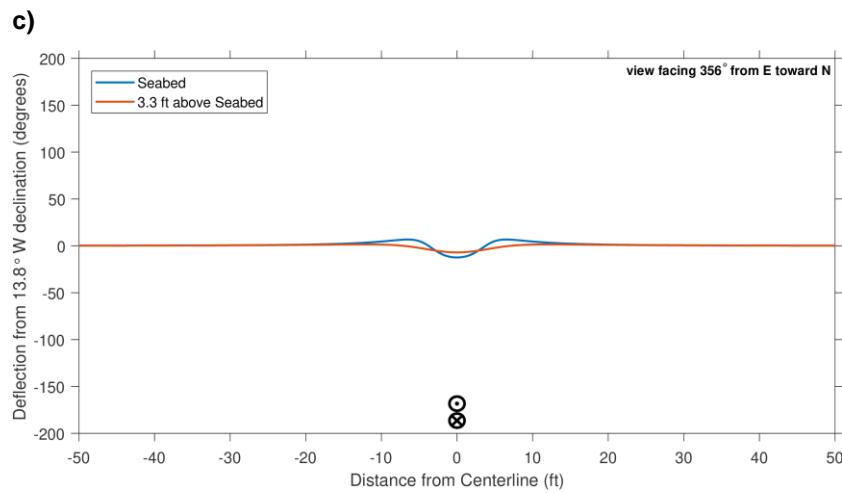
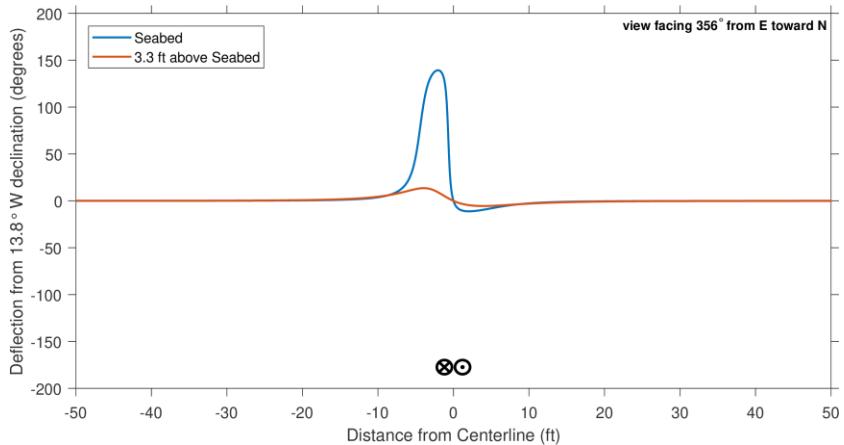
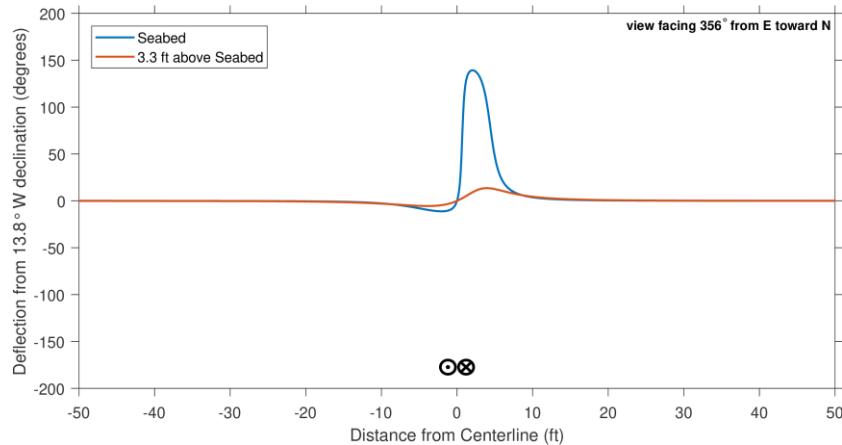


Figure C-6. Compass deflection (degrees) from magnetic north for SRWEC-NYS oriented 356° east of north, calculated at seabed (blue line) and 3.3 ft (1 m) above seabed (orange line) for each of the four DC cable configurations depicted in bottom center inset of each plot.

a)

b)

Sunrise Wind Magnetic-Field Assessment in New York

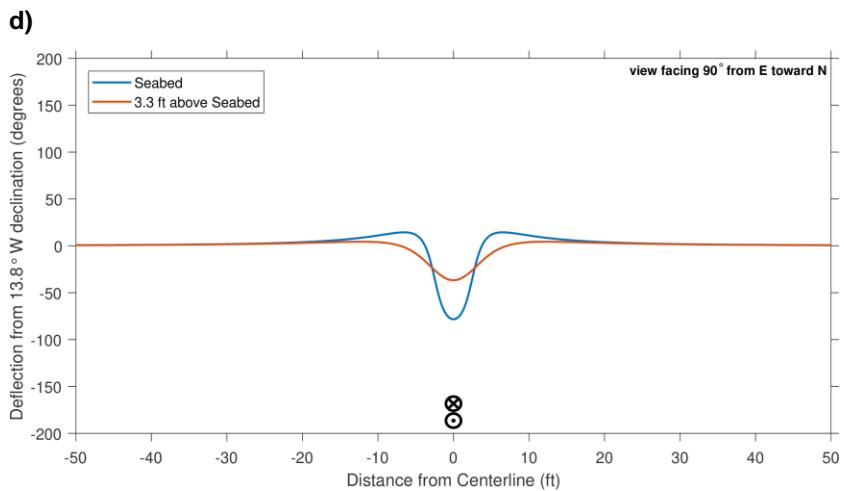
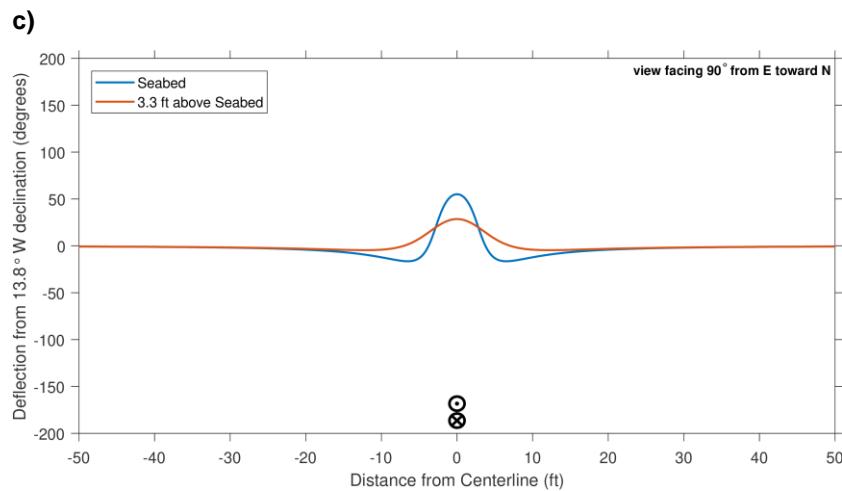
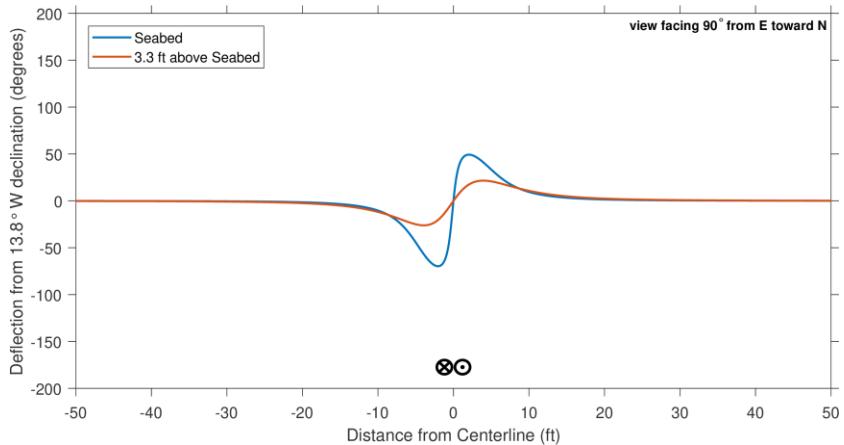
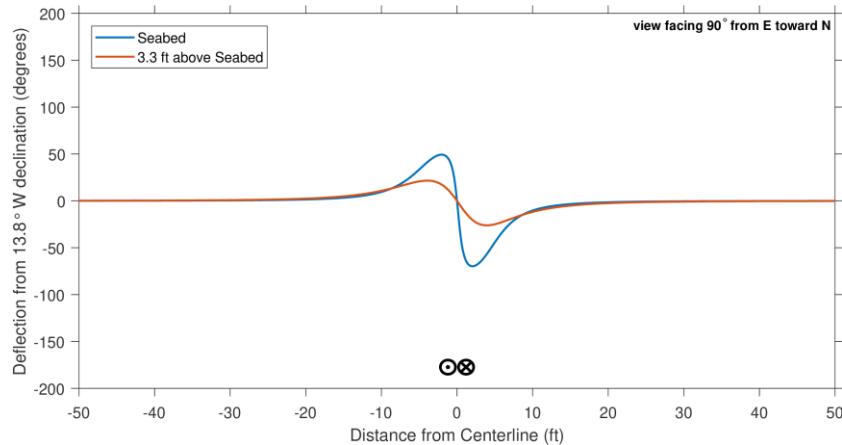


Figure C-7. Compass deflection (degrees) from magnetic north for SRWEC-NYS oriented along a north-south axis, calculated at seabed (blue line) and 3.3 ft (1 m) above seabed (orange line) for each of the four DC cable configurations depicted in bottom center inset of each plot.

a)

b)

Sunrise Wind Magnetic-Field Assessment in New York

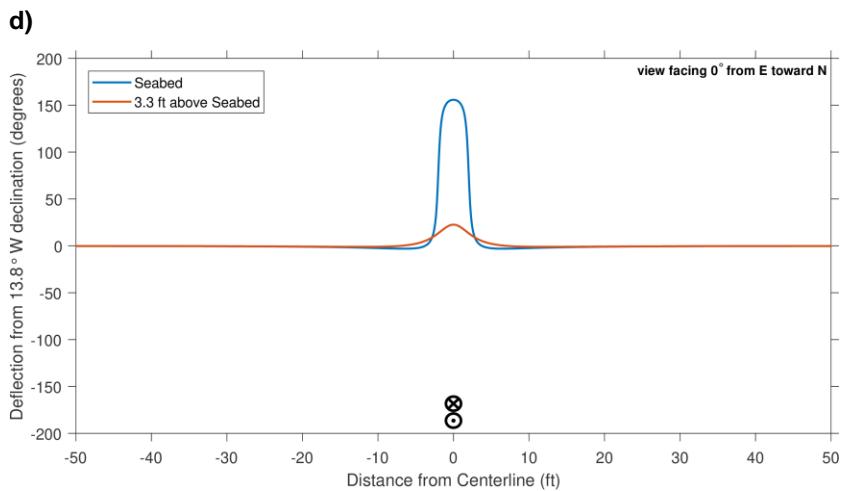
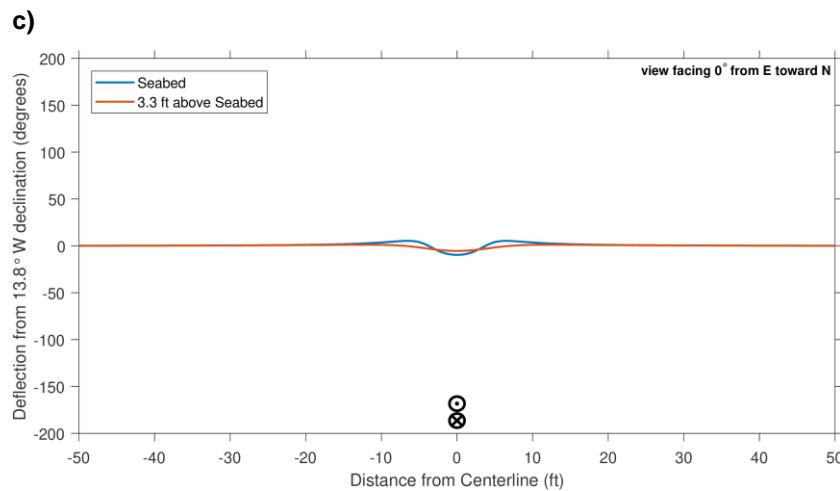
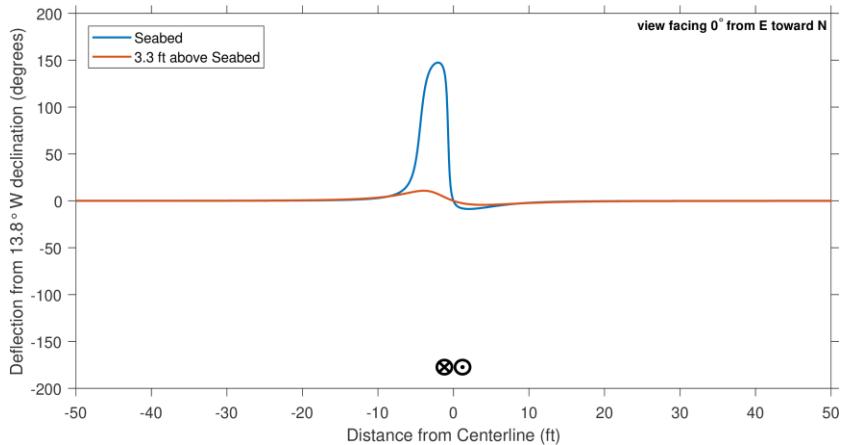
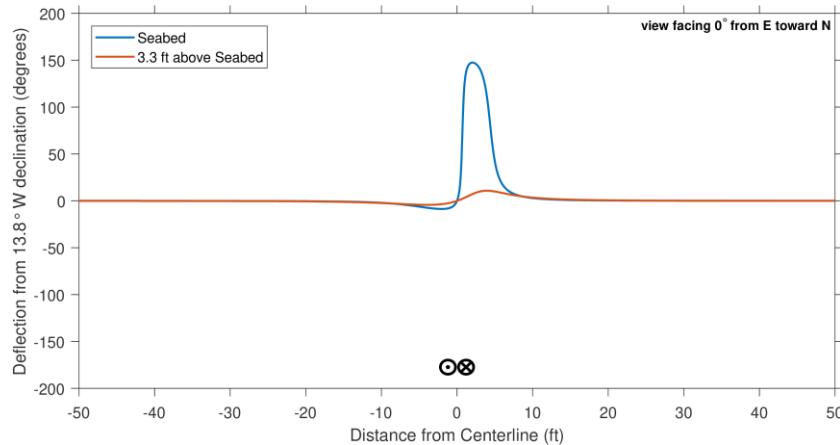


Figure C-8. Compass deflection (degrees) from magnetic north for SRWEC-NYS oriented along an east-west axis, calculated at seabed (blue line) and 3.3 ft (1 m) above seabed (orange line) for each of the four DC cable configurations depicted in bottom center inset of each plot.

Onshore Transmission Cable

Magnetic Field from the Onshore Transmission Cable

The DC current load within the Onshore Transmission Cable, whether installed in duct banks or via direct bury, generates a static magnetic field around these cables. The magnetic field was calculated for four representative cable directions (30 degrees, 75 degrees, 110 degrees, and 155 degrees north of east) plus the two cardinal directions, north-south and east-west, to cover the full range of possible directions. For each of the cable orientations, the magnetic field was calculated for the DC duct bank configuration and the DC direct bury configuration. For both configurations, current was modeled to flow toward the OnCS-DC in the left duct and away from the OnCS-DC in the right duct, as well as for opposite polarity (current flowing toward the OnCS-DC in the right duct and away from the OnCS-DC in the left duct). Calculations were performed for WNC rating.

Figure C-9 shows calculations for the DC duct bank configuration in an east-west orientation for a loading equal to the WNC rating. In each subplot, the dashed gray line is the value of the Earth's ambient geomagnetic field at the location of the cable, and the solid blue line is the total magnetic-field level (Onshore Transmission Cable + Earth's geomagnetic field) calculated at 3.3 ft (1 m) above ground. This figure shows that the direction of the current has a significant effect on the total calculated field level. Both of the graphs show the total magnetic-field level ($B_{\text{total}} = B_{\text{cable}} + B_{\text{earth}}$), but for current flowing out of the page in the left conduit (Figure C-9a), the total magnetic field increases near the duct bank, whereas for current flowing out of the page in the right conduit (Figure C-9b), the total magnetic field decreases near the duct bank.

This same information can be summarized in tabular format, but instead of presenting the total magnetic-field level ($B_{\text{total}} = B_{\text{cable}} + B_{\text{earth}}$), Table C- shows the *difference* (or deviation) between the total field and the ambient geomagnetic field ($B_{\text{deviation}} = |B_{\text{total}}| - |B_{\text{earth}}|$).¹¹ Table C-15 shows the maximum positive deviation '(+) Max,' maximum negative deviation '(-) Max,' and the deviation at ± 10 ft (± 3 m) from the Onshore Transmission Cable centerline. The first two rows of Table C-15 show the results corresponding to Figure C-9 for the DC duct bank, with the fourth and fifth rows showing the results for the same orientation (east-west) for the DC direct bury configuration. For example, the maximum negative deviation from the Earth's geomagnetic field (the first row of Table C-15, corresponding to the solid blue line in Figure C-a) is larger (-405 mG) than the maximum positive deviation (+121 mG). At a distance of -10 ft (-3 m) from the DC duct bank centerline, the deviation is +110 mG, while at +10 ft (+3 m) from the DC duct bank centerline, the deviation is +8.3 mG. Detailed results of every configuration and geographic orientation at a loading equal to WNC rating are presented below in Figure C-10 to Figure C-15. Tabular summaries at WNC rating are provided in Table C-16 and C-17.

¹¹ Tabular results are shown as the deviation from the ambient geomagnetic field because even very far from the cables, the reported values will be ~506 mG (the remaining ambient geomagnetic field), which in tabular form can make it difficult to see the distance at which the effect of the cable on the local geomagnetic field decreases to near background levels.

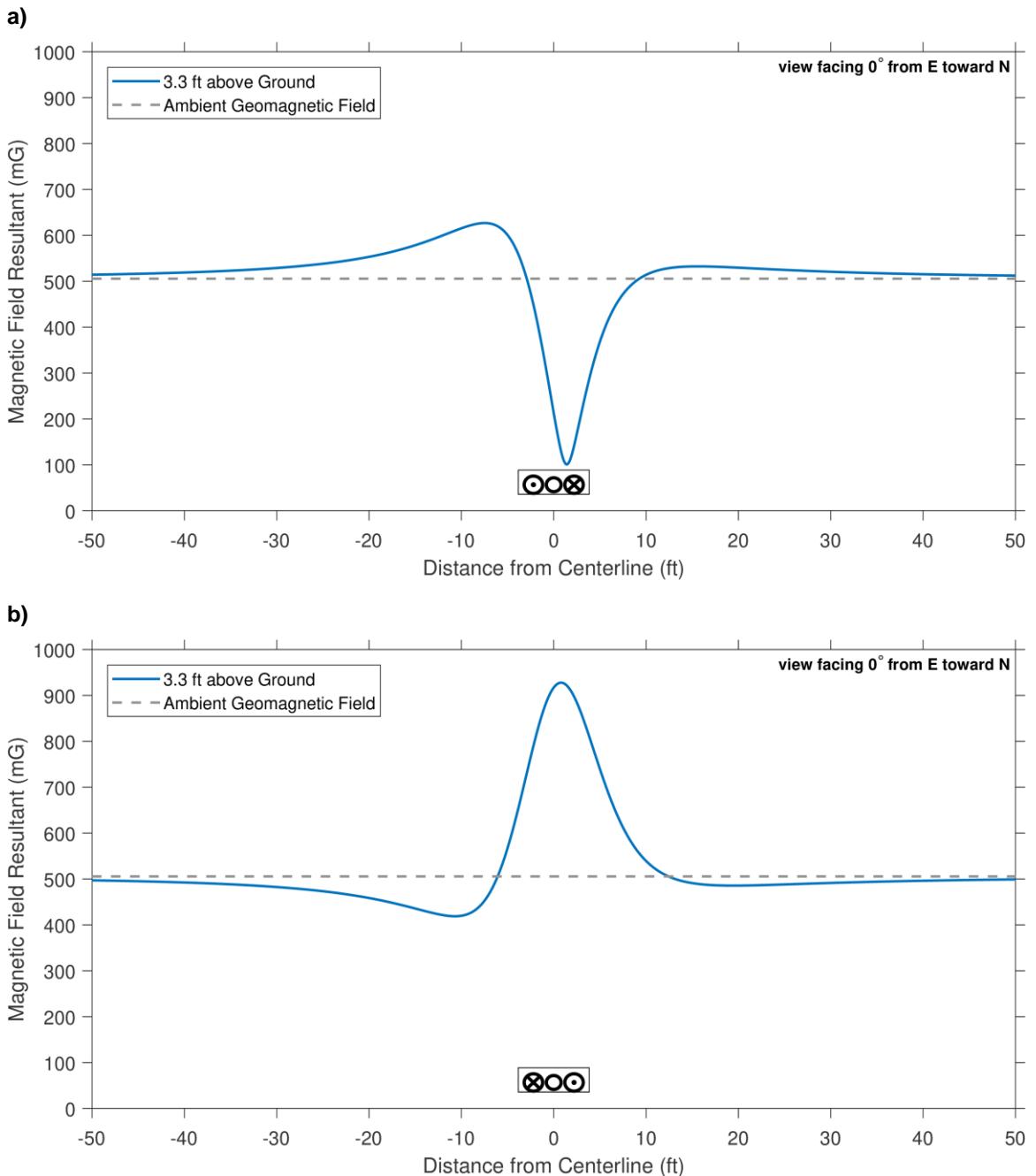


Figure C-9. Total calculated magnetic field at WNC loading for the Onshore Transmission Cable in the DC duct bank configuration for cables oriented along the east-west direction, evaluated at a height of 3.3 ft (1 m) above ground.

The figure insets depict two current flow scenarios. For (a), the cables are modeled with current flowing out of the page on the left conduit and into the page on the right conduit, while for (b), the cables are modeled with current flowing out of the page on the right conduit and into the page on the left conduit.

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Table C-15. Magnetic-field deviation (mG) from the ambient geomagnetic field for an east-west cable orientation of the Onshore Transmission Cable, evaluated at various horizontal distances 3.3 ft (1 m) above ground and at WNC loading

Installation Type	Configuration	DC Magnetic-Field Deviation (mG)			
		-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)
DC Duct Bank		110	121	-405	8.3
		-86	422	-87	34
	east-west summary	-86 to 110	121 to 422	-405 to -87	8.3 to 34
DC Direct Bury		-10	19	-78	-55
		18	78	-18	57
	east-west summary	-10 to 18	19 to 78	-78 to -18	-55 to 57

Sunrise Wind Magnetic-Field Assessment in New York

Table C-16. Summary of DC magnetic-field deviation (mG) from the ambient geomagnetic field for each of the six geographic orientations of the Onshore Transmission Cable, evaluated at various horizontal distances 3.3 ft (1 m) above ground and at WNC loading

Installation Type	Cable Route	DC Magnetic-Field Deviation (mG)			
		-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)
DC Duct Bank	north-south	-37 to 74	74 to 412	-298 to -50	-8 to 49
	east-west	-86 to 110	121 to 422	-405 to -87	8.3 to 34
	30° north of east	-85 to 109	120 to 422	-401 to -86	8.9 to 33
	75° north of east	-53 to 86	89 to 414	-316 to -61	6.1 to 36
	110° north of east	-16 to 56	67 to 412	-294 to -46	-29 to 67
	155° north of east	19 to 23	108 to 418	-357 to -76	-73 to 100
DC Direct Bury	north-south	-27 to 33	12 to 75	-73 to -11	-38 to 43
	east-west	-10 to 18	19 to 78	-78 to -18	-55 to 57
	30° north of east	-11 to 18	19 to 78	-78 to -18	-55 to 57
	75° north of east	-21 to 28	14 to 75	-74 to -13	-43 to 48
	110° north of east	-35 to 40	10 to 75	-72 to -9.7	-30 to 36
	155° north of east	-51 to 54	17 to 77	-76 to -16	-15 to 22

Table C-17. Summary of DC magnetic-field deviations (mG) of the Onshore Transmission Cable at various horizontal distances 3.3 ft (1 m) above ground and at WNC loading

Evaluation Height	DC Magnetic-Field Deviation (mG)											
	-75 ft (-23 m)	-50ft (-15 m)	-25 ft (-18 m)	-10ft (-3 m)	-5 ft (-1.5 m)	(+) Max	(-) Max	+5 ft (+1.5 m)	+10 ft (+3 m)	+25 ft (+18 m)	+50 ft (+15 m)	+75 ft (+23 m)
DC Duct Bank	-3.8 to 3.8	-8.6 to 8.6	-32 to 32	-86 to 110	-108 to 219	67 to 422	-405 to -76	-137 to 234	-73 to 100	-31 to 31	-8.4 to 8.4	-3.7 to 3.7
DC Direct Bury	-5.3 to 5.3	-10.4 to 10.5	-18 to 19	-51 to 54	-72 to 73	10 to 78	-78 to -9.7	-76 to 76	-55 to 57	-16 to 17	-9.8 to 9.9	-5.1 to 5.1

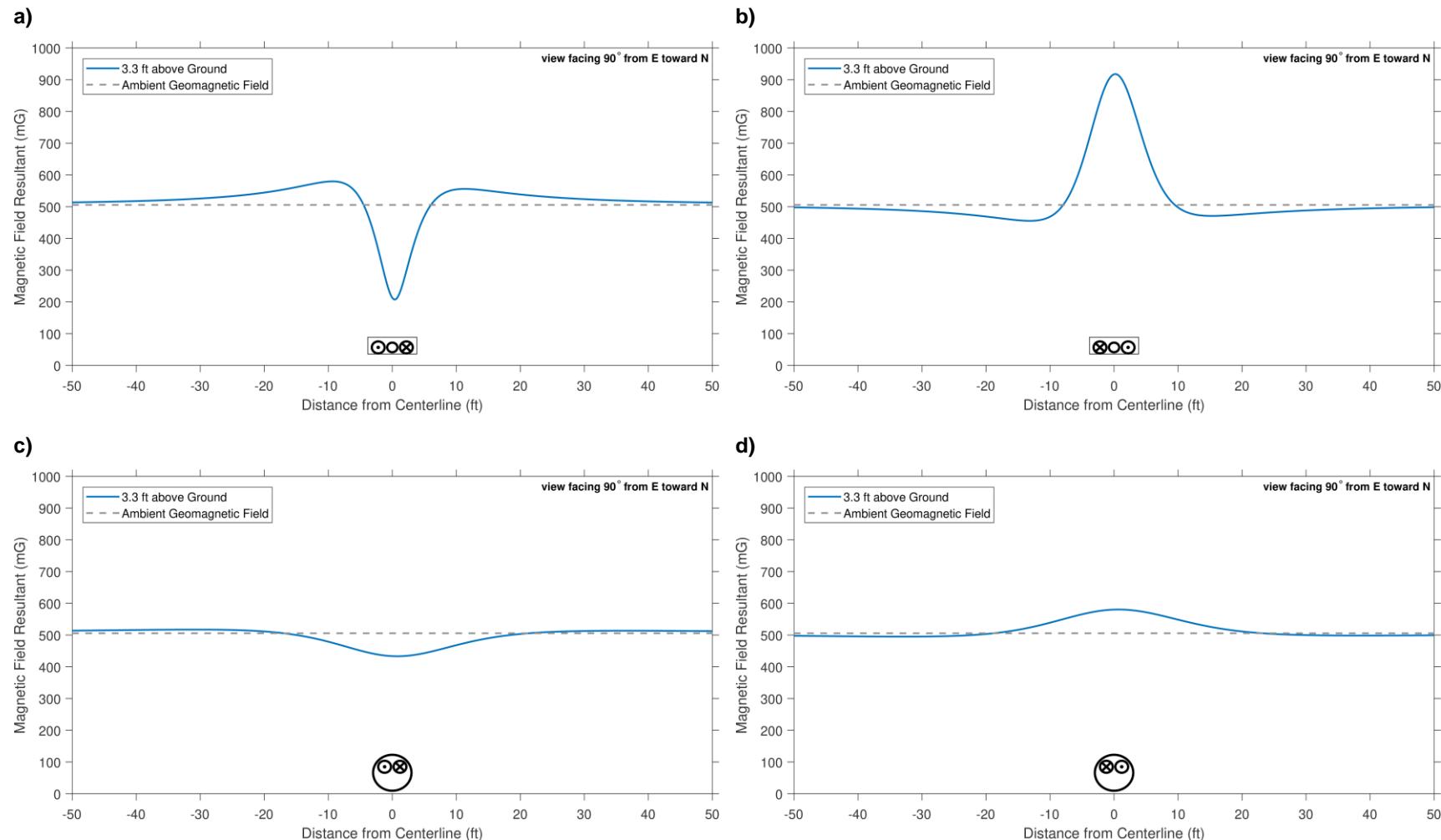


Figure C-10. Total magnetic field at WNC loading for Onshore Transmission Cables oriented in a north-south direction, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot).

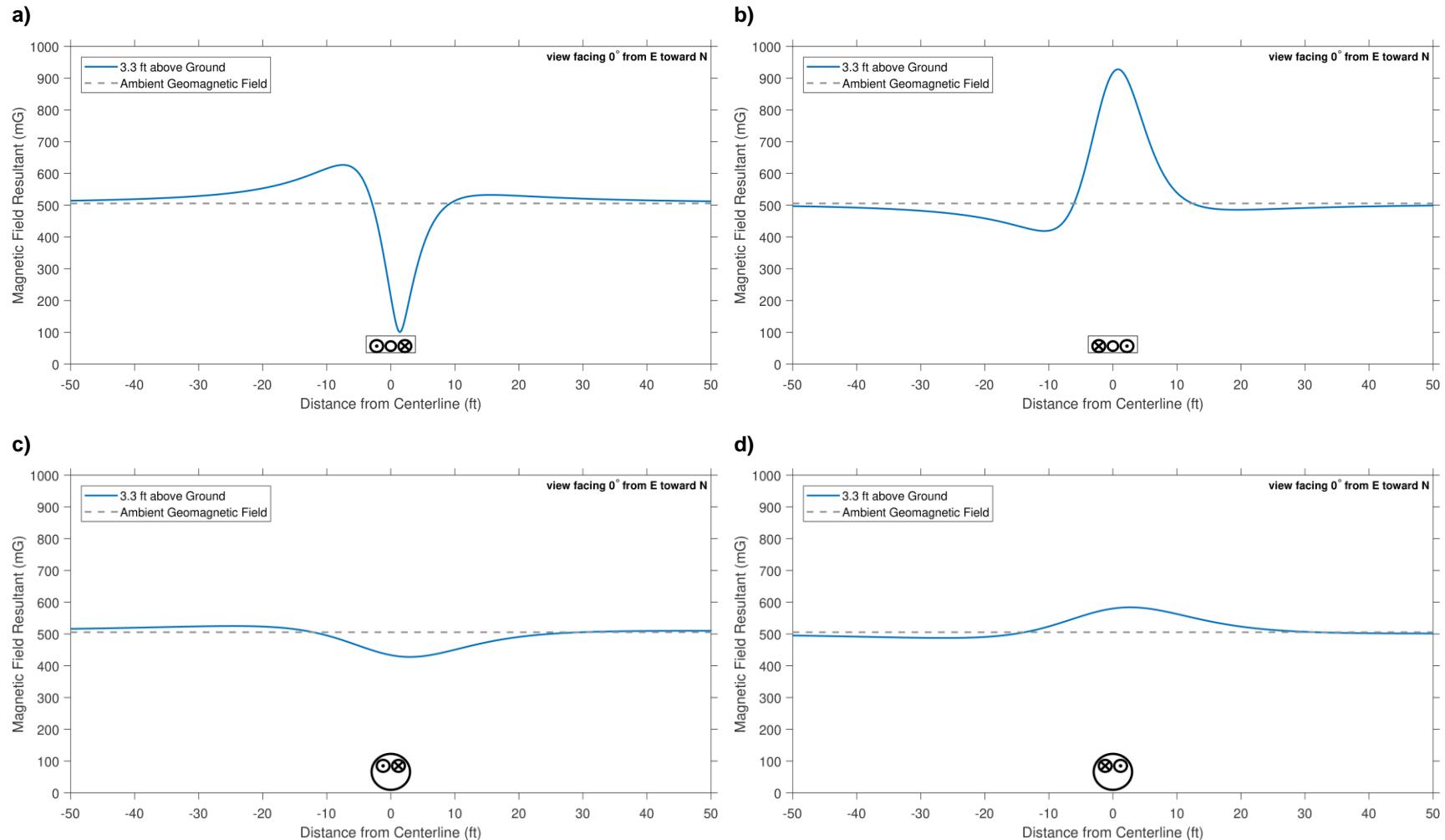


Figure C-11. Total magnetic field at WNC loading for Onshore Transmission Cables oriented along an east-west direction, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot). Note that plots a and b are repeated from Figure C-4.

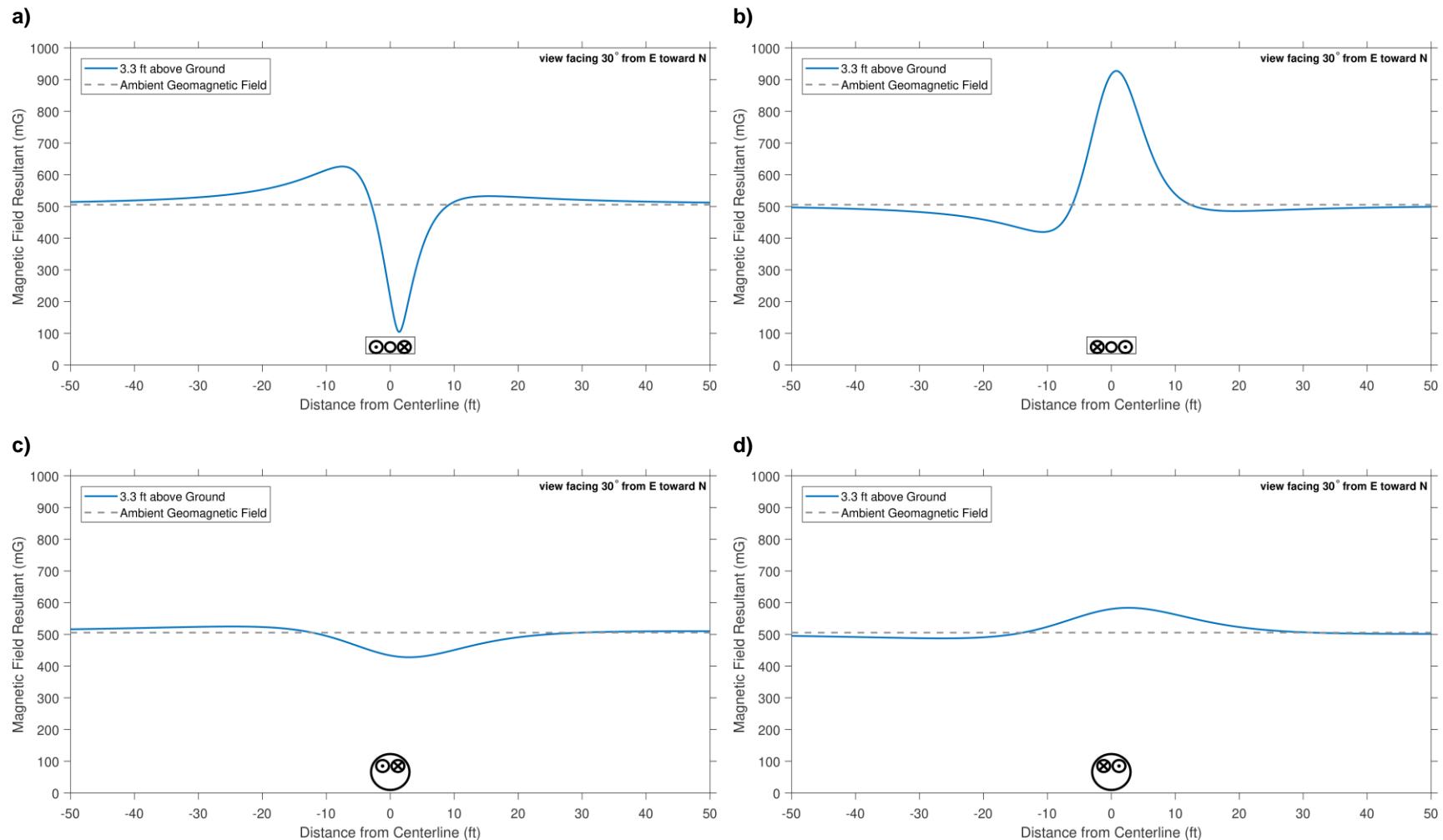


Figure C-12. Total magnetic field at WNC loading for Onshore Transmission Cable oriented 30 degrees north of east, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot).

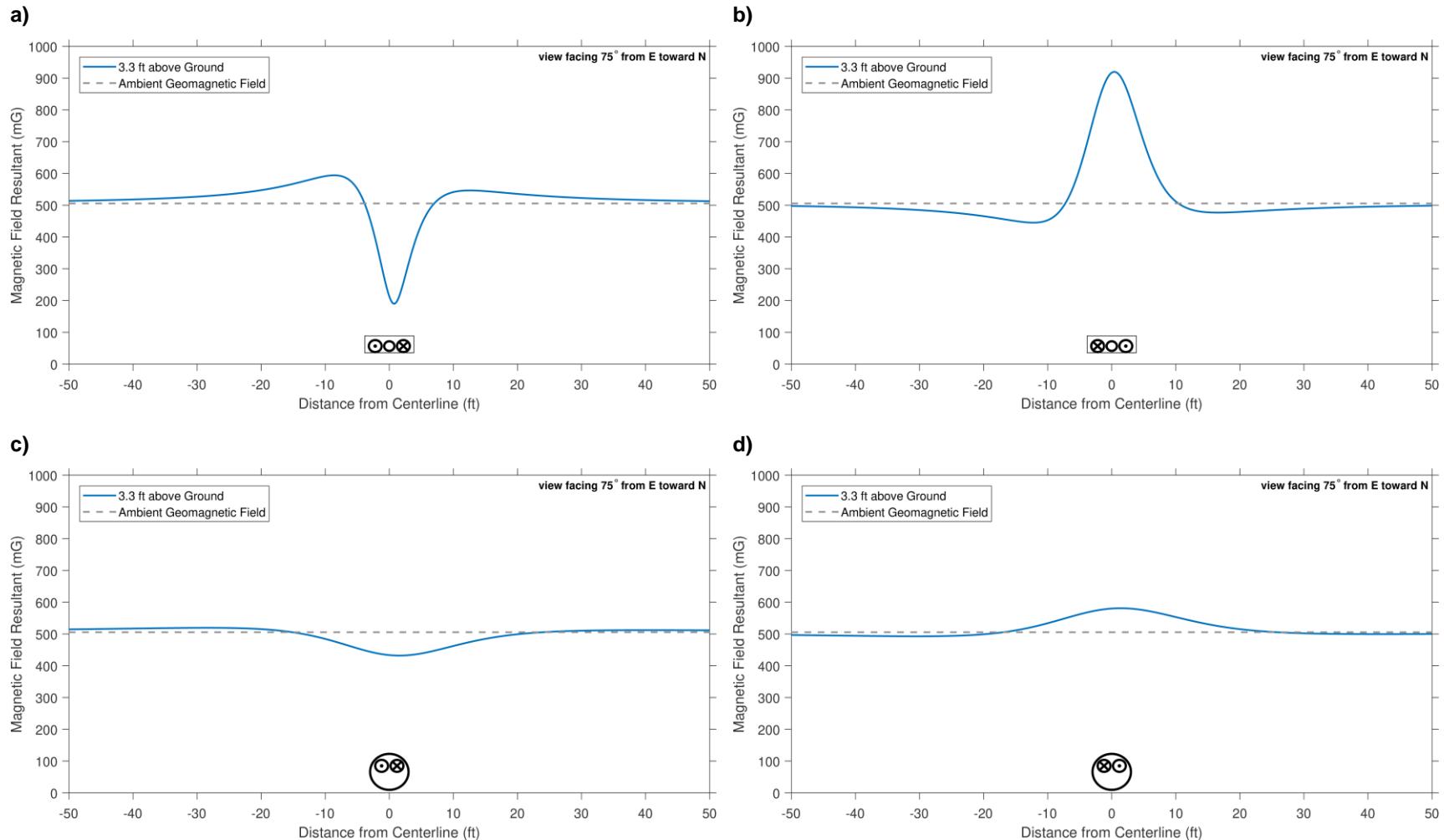


Figure C-13. Total magnetic field at WNC loading for the Onshore Transmission Cable oriented 75 degrees north of east, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot).

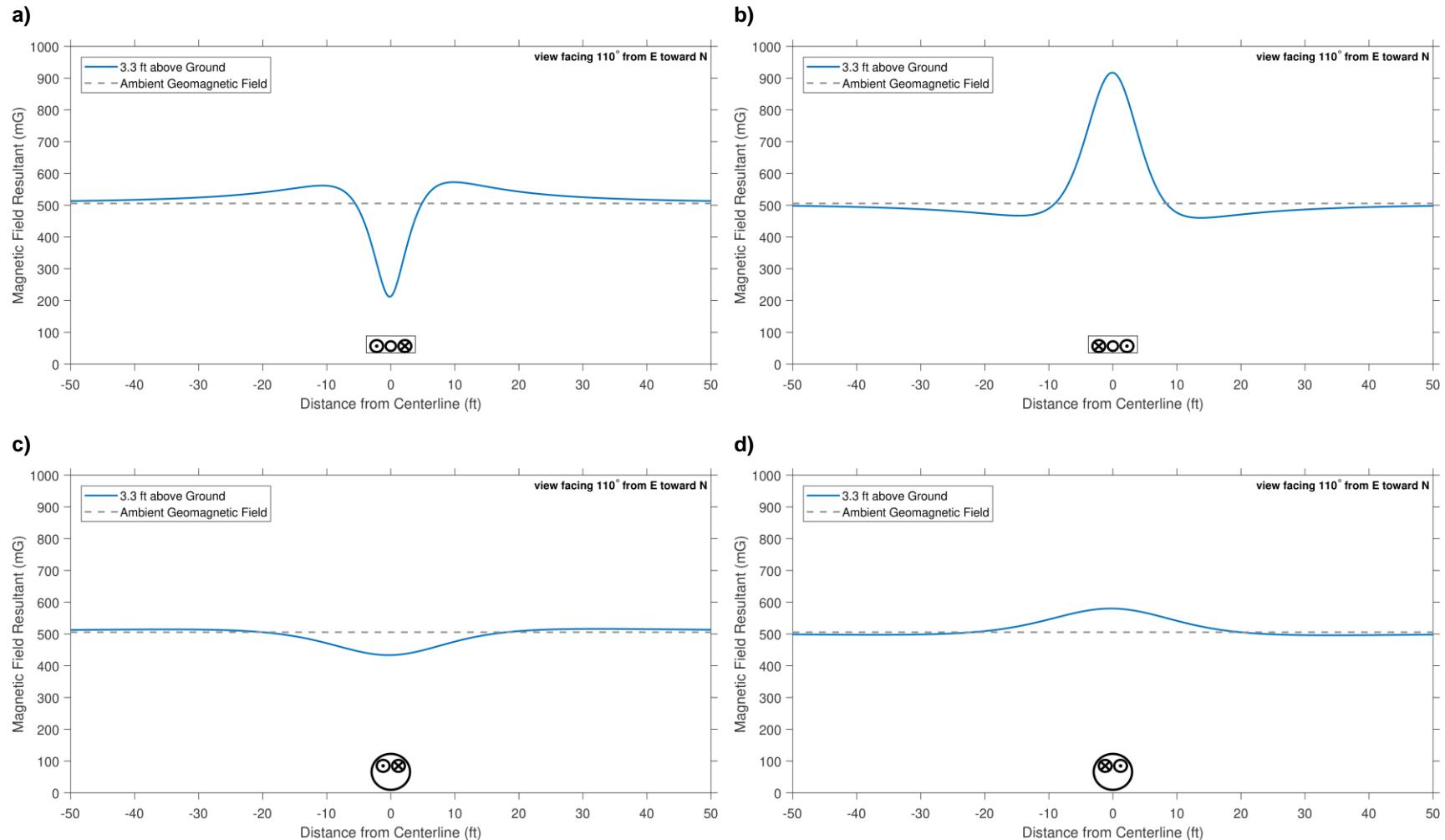


Figure C-14 Total magnetic field at WNC loading for the Onshore Transmission Cable oriented 110 degrees north of east, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot).

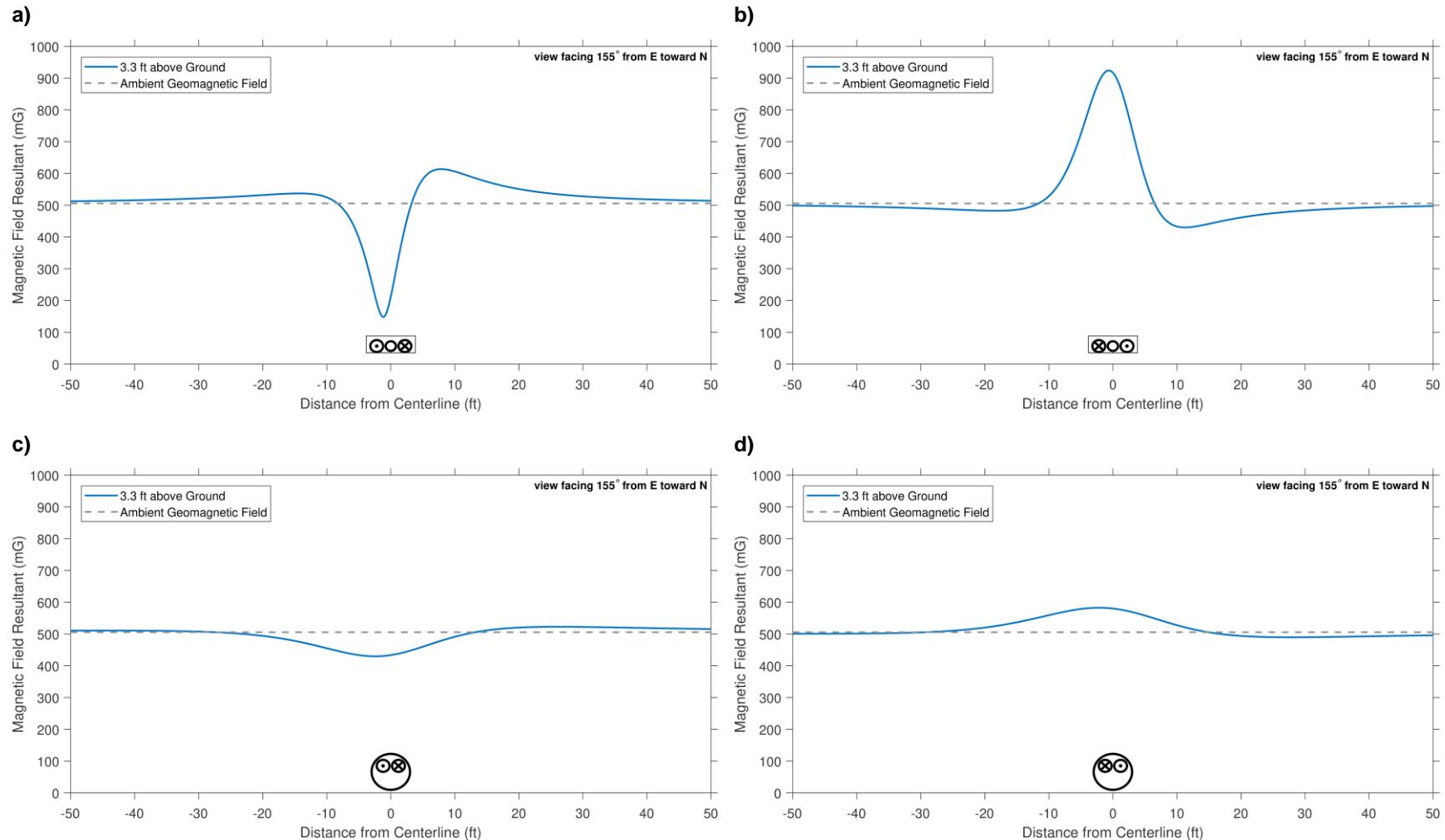


Figure C-15. Total magnetic field at WNC loading for the Onshore Transmission Cable oriented 155 degrees north of east, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot).

Compass Deflections from the Onshore Transmission Cables

A compass needle typically points along the direction of the Earth's geomagnetic field, but a new DC magnetic-field source may cause a local deviation in the apparent direction of magnetic north. Here, this deviation is calculated as the compass deflection, which is the difference in angular direction in degrees between the horizontal component of the ambient geomagnetic field and the horizontal component direction of the combined geomagnetic field from the earth and the DC magnetic field from the SRWEC–NYS and Onshore Transmission Cable. Modern navigational instruments that obtain compass readings and locations from global positioning system receivers would not be affected by magnetic-field deflections from the Project cables.

To assess the effect of the Onshore Transmission Cable on potential compass readings, the deflections of the horizontal component of the total magnetic field from that of the Earth's geomagnetic field were calculated. As an illustrative representation of the results, the plotted data in Figure C-16 show the calculated compass deflection for both of the DC cable configurations when the cables are oriented east-west for the DC duct bank configuration. This figure shows that the direction of the current plays a role in the location where the maximum compass deviation will be observed, but does not play as large a role as in the magnetic-field deviation from ambient (discussed above in relation to Figure C-9).

Detailed compass deflection results for every configuration and geographic orientation at a loading equal to WNC rating are presented below in Figure C-17 to Figure C-22. Tabular summaries at WNC rating are provided in Table C-19 and C-20.

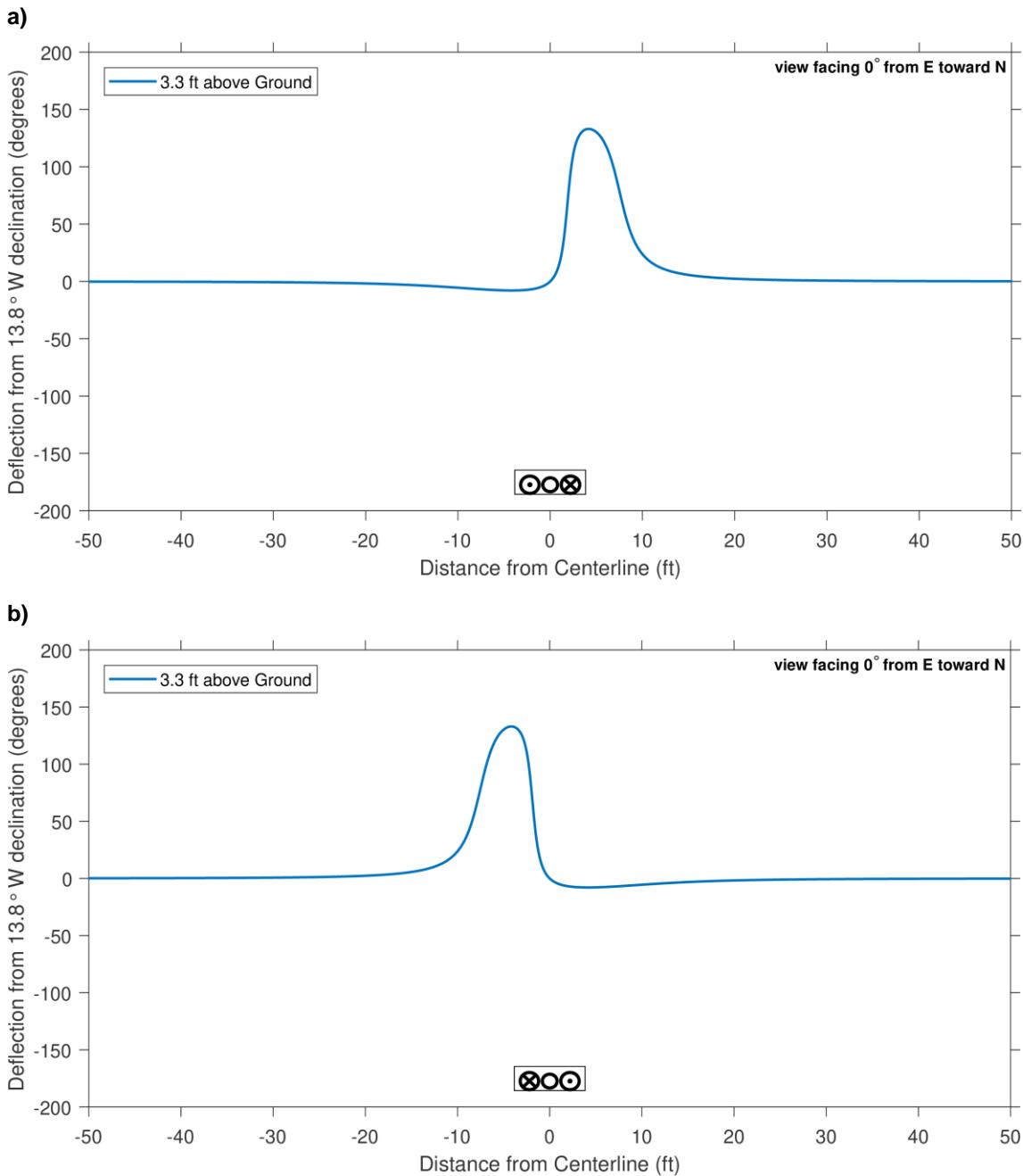


Figure C-16 Compass deflection (degrees) from magnetic north for the Onshore Transmission Cable in the DC duct bank configuration, oriented in an east-west direction for WNC loading and calculated at a height of 3.3 ft (1 m) above ground.

The figure insets depict two current flow scenarios. For (a), the cables are modeled with current flowing out of the page on the left conduit and into the page on the right conduit, while for (b), the cables are modeled with current flowing out of the page on the right conduit and into the page on the left conduit.

Sunrise Wind Magnetic-Field Assessment in New York

Table C-18. Compass deflection (degrees) from magnetic north for an east-west cable orientation of the Onshore Transmission Cable, evaluated at various horizontal distances 3.3 ft (1 m) above ground and at WNC loading

Installation Type	Configuration	Compass deflection (degrees) from magnetic north			
		-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)
DC Duct Bank		-5.5	133	-7.9	24
		24	133	-7.9	-5.5
	east-west summary	-5.5 to 24	133	-7.9	-5.5 to 24
DC Direct Bury		-2.7	4.5	-2.7	4.4
		4.4	4.5	-2.7	-2.7
	east-west summary	-2.7 to 4.4	4.5	-2.7	-2.7 to 4.4

Sunrise Wind Magnetic-Field Assessment in New York

Table C-19. Compass deflection (degrees) from magnetic north for each of the six geographic orientations of the Onshore Transmission Cable, evaluated at various horizontal distances 3.3 ft (1 m) above ground and at WNC loading

Installation Type	Cable Route	Compass deflection (degrees) from magnetic north			
		-10 ft (-3 m)	(+) Max	(-) Max	+10 ft (+3 m)
DC Duct Bank	north-south	-37 to 29	45	-62	-37 to 29
	east-west	-5.5 to 24	133	-7.9	-5.5 to 24
	30° north of east	-27 to 6.4	9.3	-127	-27 to 6.4
	75° north of east	-40 to 24	36	-73	-40 to 24
	110° north of east	-32 to 35	57	-49	-32 to 35
	155° north of east	-15 to 41	93	-22	-15 to 41
DC Direct Bury	north-south	-14 to 13	13	-14	-14 to 13
	east-west	-2.7 to 4.4	4.5	-2.7	-2.7 to 4.4
	30° north of east	-5.1 to 3.2	3.2	-5.2	-5.1 to 3.2
	75° north of east	-14 to 11	11	-14	-14 to 11
	110° north of east	-13 to 14	14	-14	-13 to 14
	155° north of east	-7.3 to 11	11	-7.4	-7.3 to 11

Table C-20. Summary of compass deflection (degrees) associated with the Onshore Transmission Cable at various horizontal distances 3.3 ft (1 m) above ground and at WNC loading

Evaluation Height	Compass deflection (degrees) from magnetic north											
	-75 ft (-23 m)	-50ft (-15 m)	-25 ft (-18 m)	-10ft (-3 m)	-5 ft (-1.5 m)	(+) Max	(-) Max	+5 ft (+1.5 m)	+10 ft (+3 m)	+25 ft (+18 m)	+50 ft (+15 m)	+75 ft (+23 m)
DC Duct Bank	-0.2 to 0.2	-0.7 to 0.7	-4.6 to 4.7	-40 to 41	-124 to 130	9.3 to 133	-127 to -7.9	-124 to 130	-40 to 41	-4.6 to 4.7	-0.7 to 0.7	-0.2 to 0.2
DC Direct Bury	-0.7 to 0.7	-2.1 to 2.1	-8.3 to 8.4	-14 to 14	-9.7 to 9.7	3.2 to 14	-14 to -2.7	-9.7 to 9.7	-14 to 14	-8.3 to 8.4	-2.1 to 2.1	-0.7 to 0.7

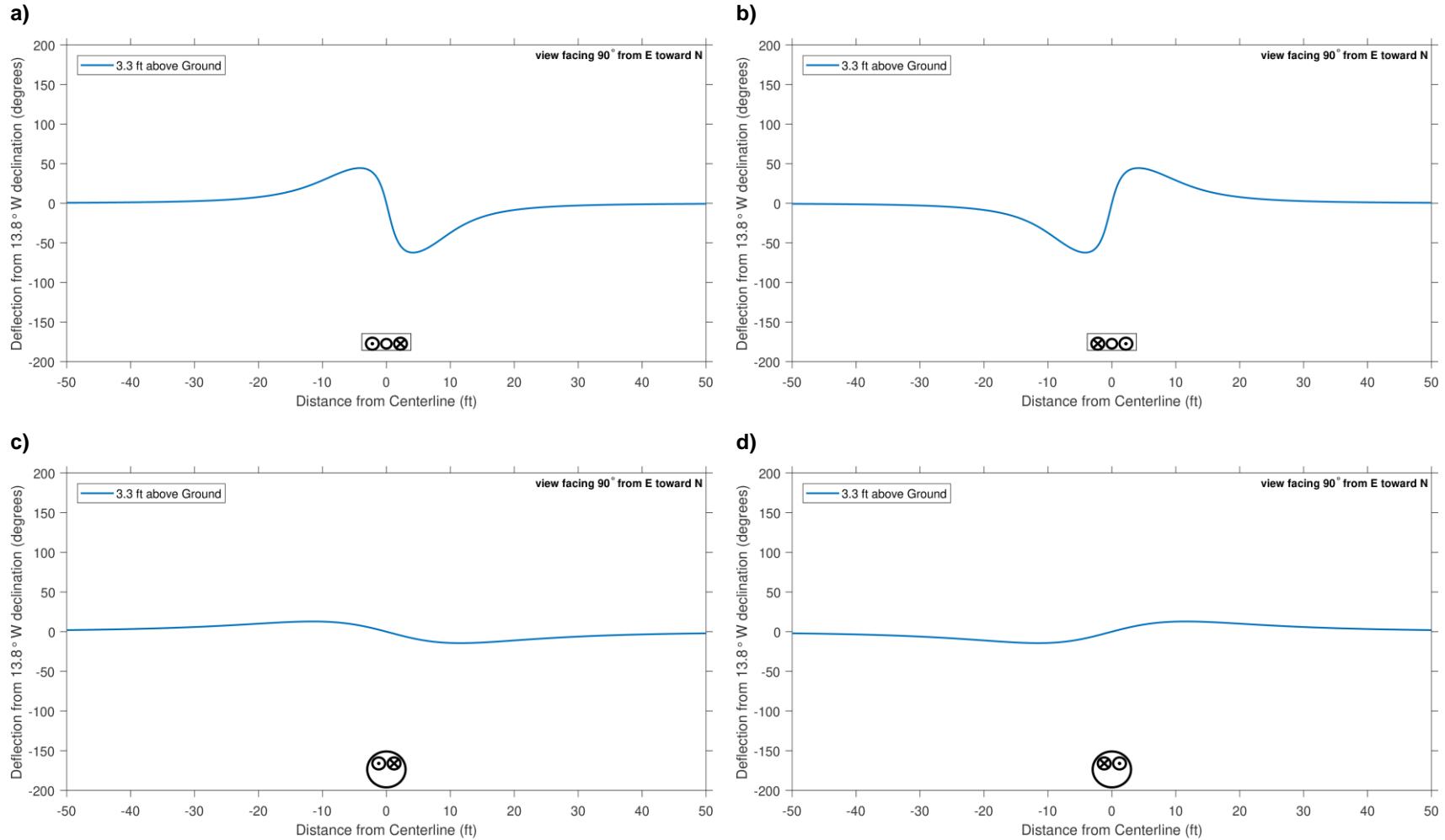


Figure C-17. Compass deflection (degrees) from magnetic north at WNC loading for the Onshore Transmission Cable oriented in a north-south direction, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot). Note that plots a and b are repeated from Figure C-11.

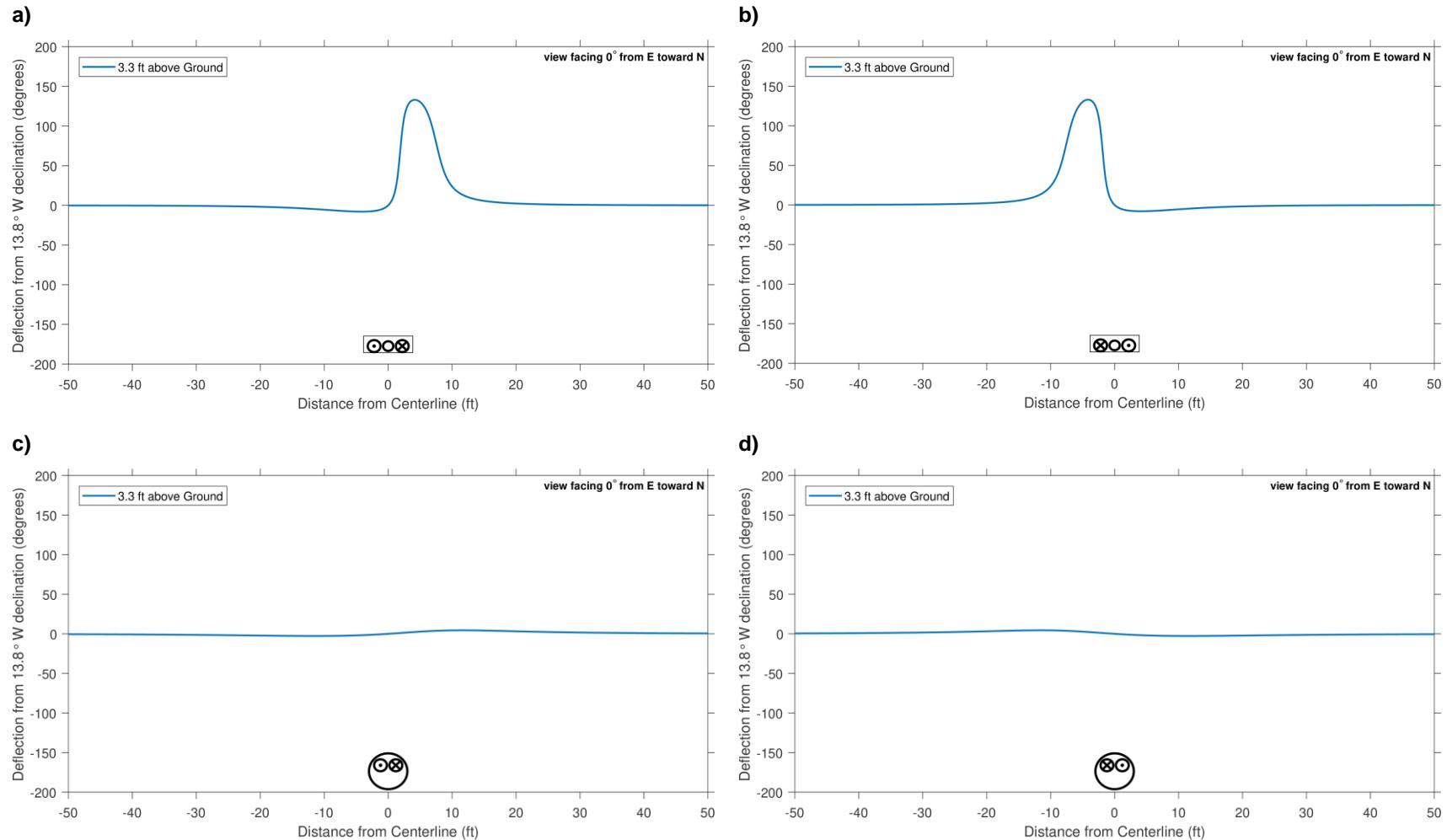


Figure C-18. Compass deflection (degrees) from magnetic north at WNC loading for the Onshore Transmission Cable oriented along an east-west direction, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot).

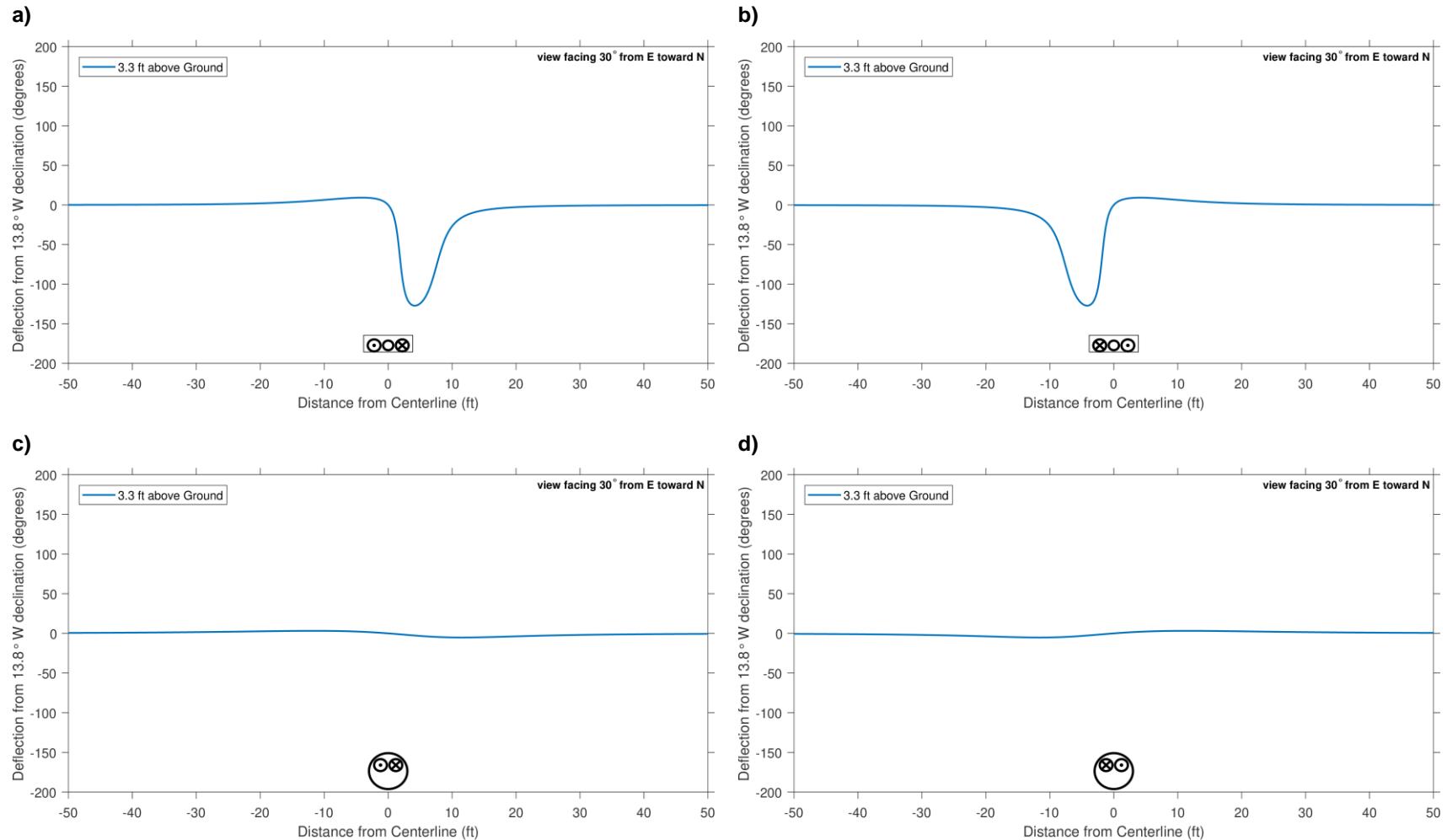


Figure C-19. Compass deflection (degrees) from magnetic north at WNC loading for Onshore Transmission Cable oriented 30 degrees north of east, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot).

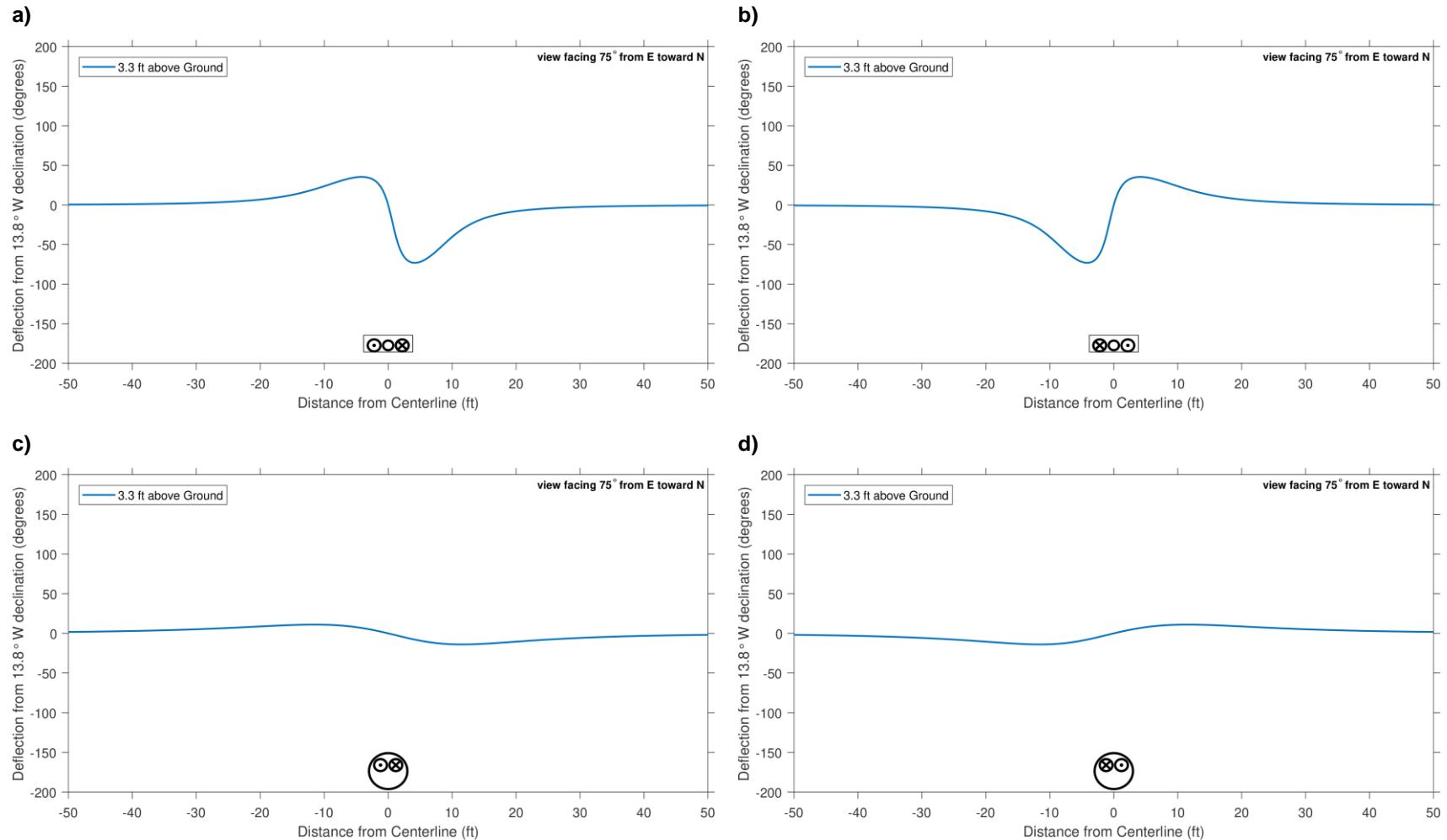


Figure C-20. Compass deflection (degrees) from magnetic north at WNC loading for the Onshore Transmission Cable oriented 75 degrees north of east, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot).

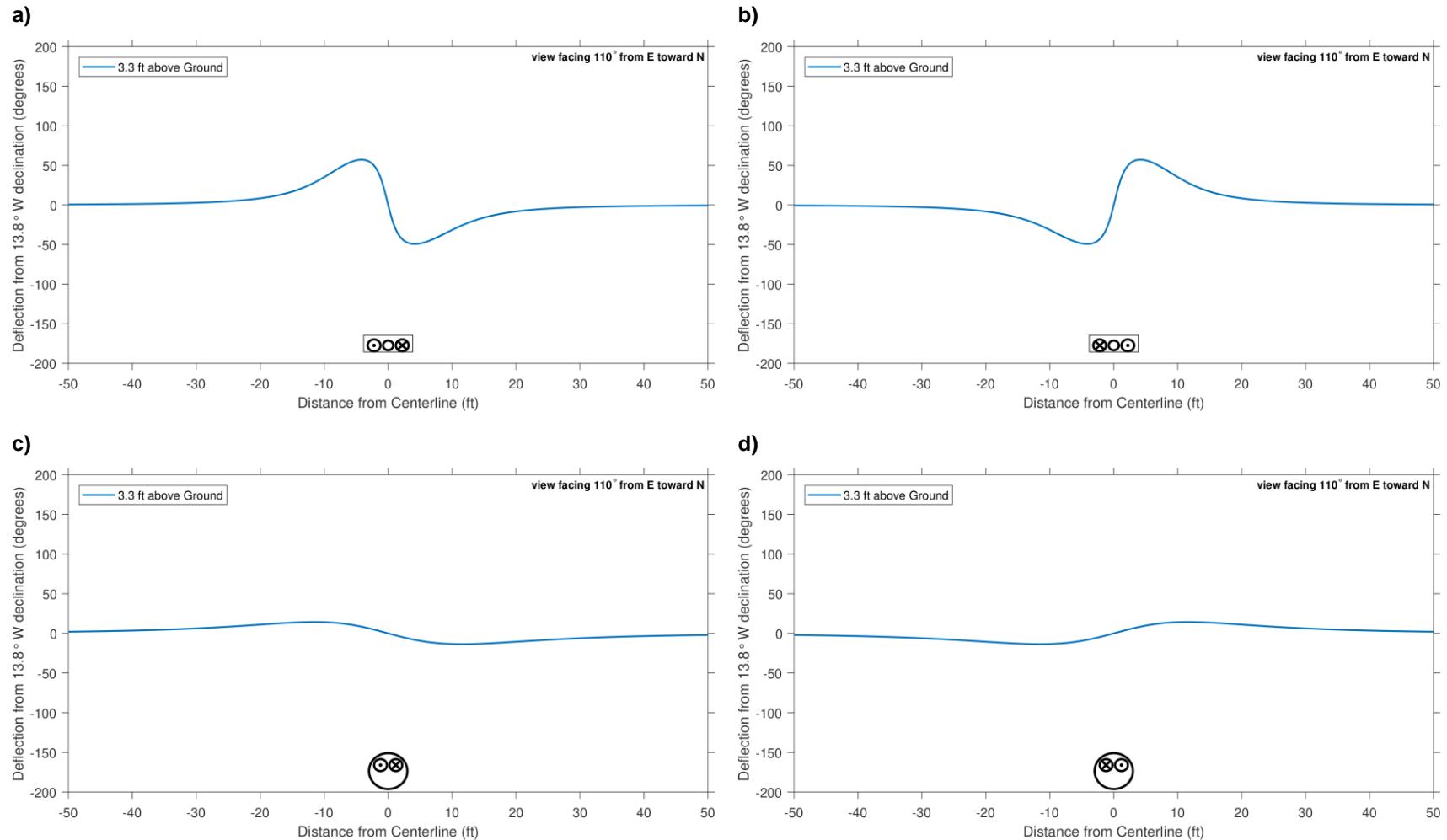


Figure C-21. Compass deflection (degrees) from magnetic north at WNC loading for the Onshore Transmission Cable oriented 110 degrees north of east, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot).

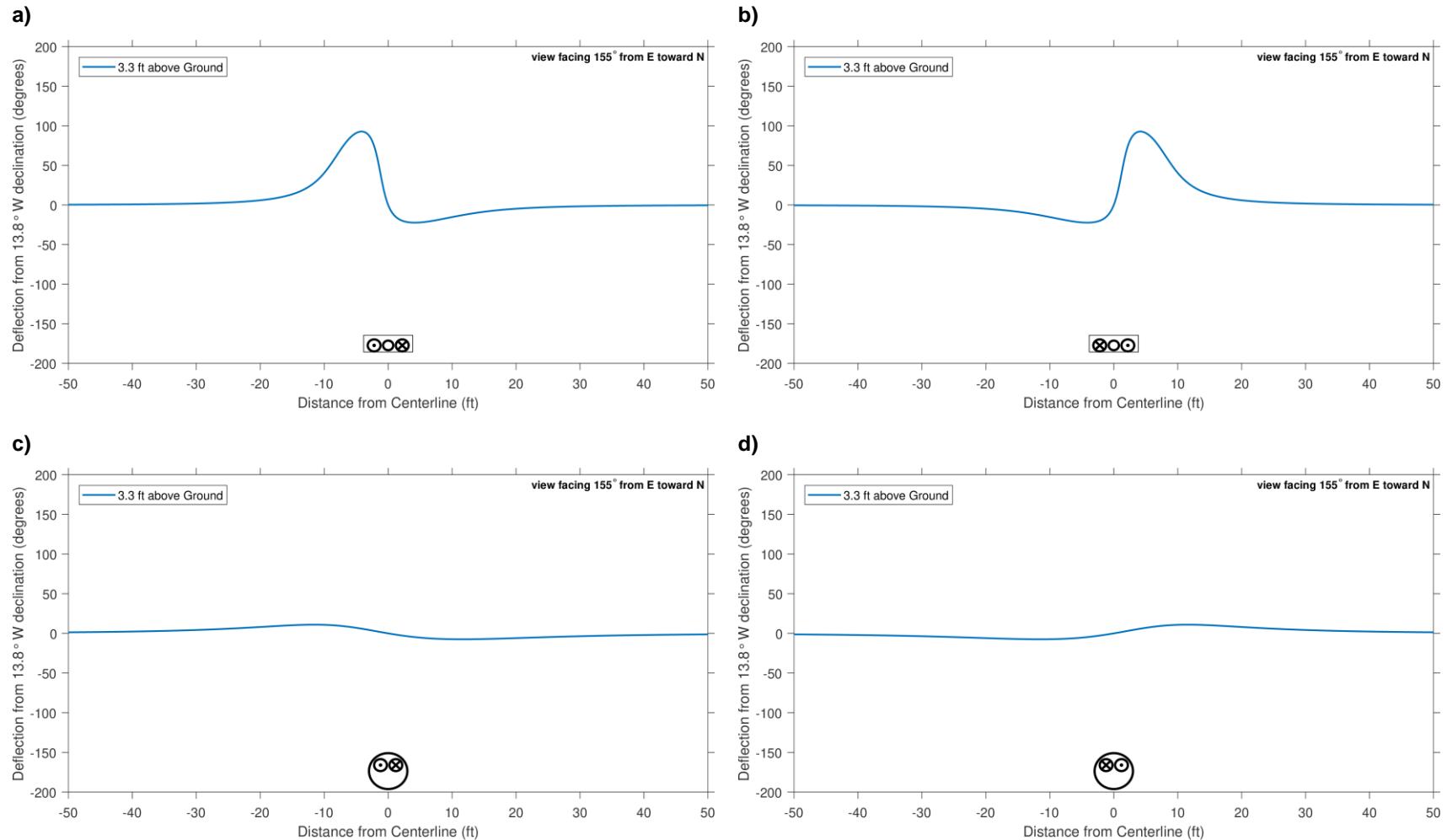


Figure C-22. Compass deflection (degrees) from magnetic north at WNC loading for the Onshore Transmission Cable oriented 155 degrees north of east, calculated at a height of 3.3 ft (1 m) above ground for both the DC duct bank (a and b) and DC direct bury (c and d) configurations. Each evaluated for two different current flow scenarios (indicated by the inset figure at the bottom-center of each plot).

AC Magnetic Field from the Onshore Interconnection Cable

The calculated AC magnetic field for the buried Onshore Interconnection Cable configuration depicted in Figure A-5 is shown below in Figure C-1.

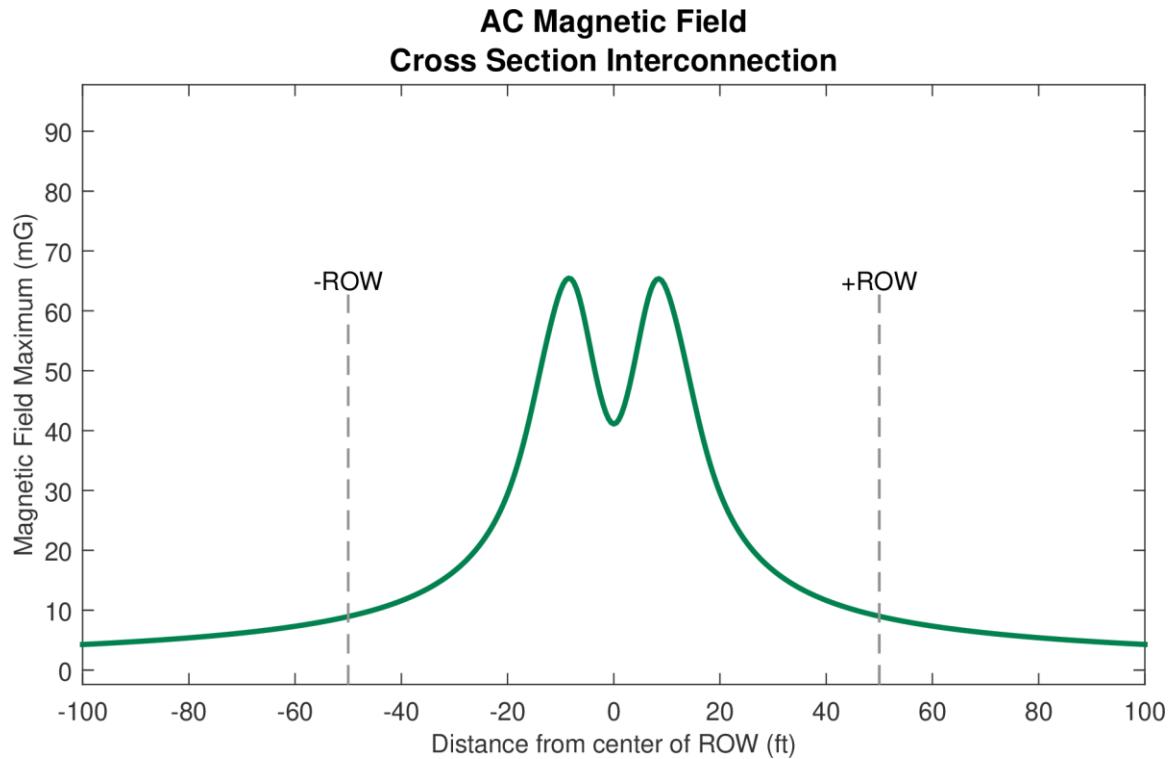


Figure C-23. Calculated AC magnetic-field levels 3.3-ft (1-m) above ground from the Onshore Interconnection Cable buried 3.3-ft (1-m) below ground and at WNC loading.

Table C-21. Calculated AC magnetic-field levels (mG) from the Onshore Interconnection Cable at various horizontal distances 3.3 ft (1m) above ground and at WNC loading.

Configuration	Loading	AC Magnetic Field (mG)*										
		-100 ft (-30 m)	-75 ft (-23 m)	-50 ft (-15 m)	-25 ft (-7.6 m)	-10 ft (-3 m)	Max	+10 ft (+3 m)	+25 ft (+7.6 m)	+50 ft (+15 m)	+75 ft (+23 m)	+100 ft (+30 m)
AC Interconnection	WNC	4	6	9	21	63	65	63	21	9	6	4

* As shown in Attachment A, Figure A-2, for the AC interconnection configuration, the phase cables are divided into two groups (separated by 15 to 20 ft [4.6 to 6 m]). The horizontal distance is measured from the center of the two duct banks comprising the Onshore Interconnection Cable.

Attachment D

Input Data for Magnetic-Field Calculations

Table D-1. Input data for magnetic field calculations (Offshore SRWEC–NYS side-by-side configuration)*

Conductor	x-feet	y-feet	Conduit diameter (inches)	Voltage (kV)†	Current (A)†
1	-0.246	-3.526	2.5	±320	±2108.4
2	0.246	-3.526	2.5	±320	±2108.4

* The cable configurations represented in this table were modeled for each of the following geographic orientations: 90°, 0°, 30°, and 356° north of east.

† The ± and ± symbols indicate that both polarities of current were modeled. In the side-by-side configuration, modeling was performed both with positive current in the left conductor and negative in the right conductor, and with negative current in the left conductor and positive in the right conductor.

Table D-2. Input data for magnetic field calculations (Offshore SRWEC–NYS top-bottom configuration)*

Conductor	x-feet	y-feet	Conduit diameter (inches)	Voltage (kV)†	Current (A)†
1	0.0	-3.526	2.5	±320	±2108.4
2	0.0	-4.017	2.5	±320	±2108.4

* The cable configurations represented in this table were modeled for each of the following geographic orientations: 90°, 0°, 30°, and 356° north of east.

† The ± and ± symbols indicate that both polarities of current were modeled. In the side-by-side configuration, modeling was performed both with positive current in the top conductor and negative in the bottom conductor, and with negative current in the top conductor and positive in the bottom conductor.

Table D-3. Input data for magnetic field calculations (Onshore Transmission Cable – duct bank)*

Conductor	x-feet	y-feet	Conduit diameter (inches)	Voltage (kV)†	Current (A)†
1	-0.802	-3.833	2.5	±320	±2108.4
2	0.802	-3.833	2.5	±320	±2108.4

* The cable configurations represented in this table were modeled for each of the following geographic orientations: 90°, 0°, 30°, and 356° north of east.

† The ± and ± symbols indicate that both polarities of current were modeled. In the side-by-side configuration, modeling was performed both with positive current in the left conductor and negative in the right conductor, and with negative current in the left conductor and positive in the right conductor.

Table D-4. Input data for magnetic field calculations (Onshore Transmission Cable – direct bury)*

Conductor	x-feet	y-feet	Conduit diameter (inches)	Voltage (kV)†	Current (A)†
1	-1.167	-16.667	2.5	±320	±2108.4
2	1.167	-16.667	2.5	±320	±2108.4

* The cable configurations represented in this table were modeled for each of the following geographic orientations: 90°, 0°, 30°, 75°, 110°, and 155° north of east.

† The ± and ± symbols indicate that both polarities of current were modeled. In the side-by-side configuration, modeling was performed both with positive current in the left conductor and negative in the right conductor, and with negative current in the left conductor and positive in the right conductor.

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Table D-5. Input data for magnetic field calculations (Onshore Interconnection Cable)

Conductor	x-feet	y-feet	n cond	conductor diameter (inches)	I-n voltage (kV)	Current (A)	Ph-Ph Voltage	I Phasing
1	-10.67	-3.96	1	2.5	79.674	1150	138	0
2	-9.50	-3.96	1	2.5	79.674	1150	138	240
3	-8.33	-3.96	1	2.5	79.674	1150	138	120
4	-8.33	-5.13	1	2.5	79.674	1150	138	0
5	-9.50	-5.13	1	2.5	79.674	1150	138	240
6	-10.67	-5.13	1	2.5	79.674	1150	138	120
7	8.33	-3.96	1	2.5	79.674	1150	138	0
8	9.50	-3.96	1	2.5	79.674	1150	138	240
9	10.67	-3.96	1	2.5	79.674	1150	138	120
10	10.67	-5.13	1	2.5	79.674	1150	138	0
11	9.50	-5.13	1	2.5	79.674	1150	138	240
12	8.33	-5.13	1	2.5	79.674	1150	138	120
13	-10.08	-4.45	1	1.0	n/a	40.4	n/a	132.3
14	-8.92	-4.45	1	1.0	n/a	43.9	n/a	-3.2
15	8.92	-4.45	1	1.0	n/a	40.6	n/a	133.6
16	10.08	-4.45	1	1.0	n/a	43.7	n/a	-2.1

Attachment E

Output Data for DC Magnetic Field Calculations

Table E-1. Calculated differences between the Earth's DC magnetic field and the DC magnetic field around the SRWEC-NYS for cables oriented north-south (90° north of east) with different configurations

Dist (feet)	SRWEC-NYS (+ on left)	SRWEC-NYS (+ on right)	SRWEC-NYS (+ on top)	SRWEC-NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-250	0.1	-0.1	0	0
-249	0.1	-0.1	0	0
-248	0.1	-0.1	0	0
-247	0.1	-0.1	0	0
-246	0.1	-0.1	0	0
-245	0.1	-0.1	0	0
-244	0.1	-0.1	0	0
-243	0.1	-0.1	0	0
-242	0.1	-0.1	0	0
-241	0.1	-0.1	0	0
-240	0.1	-0.1	0	0
-239	0.1	-0.1	0	0
-238	0.1	-0.1	0	0
-237	0.1	-0.1	0	0
-236	0.1	-0.1	0	0
-235	0.1	-0.1	0	0
-234	0.1	-0.1	0	0
-233	0.1	-0.1	0	0
-232	0.1	-0.1	0	0
-231	0.1	-0.1	0	0
-230	0.1	-0.1	0	0
-229	0.1	-0.1	0	0
-228	0.1	-0.1	0	0
-227	0.1	-0.1	0	0
-226	0.1	-0.1	0	0
-225	0.1	-0.1	0	0
-224	0.1	-0.1	0	0
-223	0.1	-0.1	0	0
-222	0.1	-0.1	0	0
-221	0.1	-0.1	0	0
-220	0.1	-0.1	0	0
-219	0.1	-0.1	0	0
-218	0.1	-0.1	0	0
-217	0.1	-0.1	0	0
-216	0.1	-0.1	0	0
-215	0.1	-0.1	0	0
-214	0.1	-0.1	0	0
-213	0.1	-0.1	0	0
-212	0.1	-0.1	0	0
-211	0.1	-0.1	0	0
-210	0.1	-0.1	0	0
-209	0.1	-0.1	0	0

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Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-208	0.1	-0.1	0	0
-207	0.1	-0.1	0	0
-206	0.1	-0.1	0	0
-205	0.1	-0.1	0	0
-204	0.1	-0.1	0	0
-203	0.2	-0.2	0	0
-202	0.2	-0.2	0	0
-201	0.2	-0.2	0	0
-200	0.2	-0.2	0	0
-199	0.2	-0.2	0	0
-198	0.2	-0.2	0	0
-197	0.2	-0.2	0	0
-196	0.2	-0.2	0	0
-195	0.2	-0.2	0	0
-194	0.2	-0.2	0	0
-193	0.2	-0.2	0	0
-192	0.2	-0.2	0	0
-191	0.2	-0.2	0	0
-190	0.2	-0.2	0	0
-189	0.2	-0.2	0	0
-188	0.2	-0.2	0	0
-187	0.2	-0.2	0	0
-186	0.2	-0.2	0	0
-185	0.2	-0.2	0	0
-184	0.2	-0.2	0	0
-183	0.2	-0.2	0	0
-182	0.2	-0.2	0	0
-181	0.2	-0.2	0	0
-180	0.2	-0.2	0	0
-179	0.2	-0.2	0	0
-178	0.2	-0.2	0	0
-177	0.2	-0.2	0	0
-176	0.2	-0.2	0	0
-175	0.2	-0.2	0	0
-174	0.2	-0.2	0	0
-173	0.2	-0.2	0	0
-172	0.2	-0.2	0	0
-171	0.2	-0.2	0	0
-170	0.2	-0.2	0	0
-169	0.2	-0.2	0	0
-168	0.2	-0.2	0	0
-167	0.2	-0.2	0	0
-166	0.2	-0.2	0	0
-165	0.2	-0.2	0	0

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Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-164	0.2	-0.2	0	0
-163	0.2	-0.2	0	0
-162	0.2	-0.2	0	0
-161	0.2	-0.2	0	0
-160	0.2	-0.2	0	0
-159	0.2	-0.2	0	0
-158	0.2	-0.2	0	0
-157	0.3	-0.3	0	0
-156	0.3	-0.3	0	0
-155	0.3	-0.3	0	0
-154	0.3	-0.3	0	0
-153	0.3	-0.3	0	0
-152	0.3	-0.3	0	0
-151	0.3	-0.3	0	0
-150	0.3	-0.3	0	0
-149	0.3	-0.3	0	0
-148	0.3	-0.3	0	0
-147	0.3	-0.3	0	0
-146	0.3	-0.3	0	0
-145	0.3	-0.3	0	0
-144	0.3	-0.3	0	0
-143	0.3	-0.3	0	0
-142	0.3	-0.3	0	0
-141	0.3	-0.3	0	0
-140	0.3	-0.3	0	0
-139	0.3	-0.3	0	0
-138	0.3	-0.3	0	0
-137	0.3	-0.3	0	0
-136	0.3	-0.3	0	0
-135	0.3	-0.3	0	0
-134	0.3	-0.3	0	0
-133	0.4	-0.4	0	0
-132	0.4	-0.4	0	0
-131	0.4	-0.4	0	0
-130	0.4	-0.4	0	0
-129	0.4	-0.4	0	0
-128	0.4	-0.4	0	0
-127	0.4	-0.4	0	0
-126	0.4	-0.4	0	0
-125	0.4	-0.4	0	0
-124	0.4	-0.4	0	0
-123	0.4	-0.4	0	0
-122	0.4	-0.4	0	0
-121	0.4	-0.4	0	0

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Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-120	0.4	-0.4	0	0
-119	0.4	-0.4	0	0
-118	0.4	-0.4	0	0
-117	0.5	-0.5	0	0
-116	0.5	-0.5	0	0
-115	0.5	-0.5	0	0
-114	0.5	-0.5	0	0
-113	0.5	-0.5	0	0
-112	0.5	-0.5	0	0
-111	0.5	-0.5	0	0
-110	0.5	-0.5	0	0
-109	0.5	-0.5	0	0
-108	0.5	-0.5	0	0
-107	0.5	-0.5	0	0
-106	0.6	-0.6	0	0
-105	0.6	-0.6	0	0
-104	0.6	-0.6	0	0
-103	0.6	-0.6	0	0
-102	0.6	-0.6	0	0
-101	0.6	-0.6	0	0
-100	0.6	-0.6	0	0
-99	0.6	-0.6	0	0
-98	0.6	-0.6	0	0
-97	0.7	-0.7	0	0
-96	0.7	-0.7	0	0
-95	0.7	-0.7	0	0
-94	0.7	-0.7	0	0
-93	0.7	-0.7	0	0
-92	0.7	-0.7	0	0
-91	0.7	-0.7	0	0
-90	0.8	-0.8	0	0
-89	0.8	-0.8	0	0
-88	0.8	-0.8	0	0
-87	0.8	-0.8	0	0
-86	0.8	-0.8	0	0
-85	0.9	-0.9	0	0
-84	0.9	-0.9	0.1	-0.1
-83	0.9	-0.9	0.1	-0.1
-82	0.9	-0.9	0.1	-0.1
-81	0.9	-0.9	0.1	-0.1
-80	1.0	-1.0	0.1	-0.1
-79	1.0	-1.0	0.1	-0.1
-78	1.0	-1.0	0.1	-0.1
-77	1.0	-1.0	0.1	-0.1

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Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-76	1.1	-1.1	0.1	-0.1
-75	1.1	-1.1	0.1	-0.1
-74	1.1	-1.1	0.1	-0.1
-73	1.2	-1.2	0.1	-0.1
-72	1.2	-1.2	0.1	-0.1
-71	1.2	-1.2	0.1	-0.1
-70	1.3	-1.3	0.1	-0.1
-69	1.3	-1.3	0.1	-0.1
-68	1.3	-1.3	0.1	-0.1
-67	1.4	-1.4	0.1	-0.1
-66	1.4	-1.4	0.1	-0.1
-65	1.4	-1.4	0.2	-0.2
-64	1.5	-1.5	0.2	-0.2
-63	1.5	-1.5	0.2	-0.2
-62	1.6	-1.6	0.2	-0.2
-61	1.6	-1.6	0.2	-0.2
-60	1.7	-1.7	0.2	-0.2
-59	1.7	-1.7	0.2	-0.2
-58	1.8	-1.8	0.2	-0.2
-57	1.9	-1.9	0.3	-0.3
-56	1.9	-1.9	0.3	-0.3
-55	2.0	-2.0	0.3	-0.3
-54	2.1	-2.1	0.3	-0.3
-53	2.2	-2.2	0.3	-0.3
-52	2.2	-2.2	0.4	-0.4
-51	2.3	-2.3	0.4	-0.4
-50	2.4	-2.4	0.4	-0.4
-49	2.5	-2.5	0.5	-0.4
-48	2.6	-2.6	0.5	-0.5
-47	2.7	-2.7	0.5	-0.5
-46	2.8	-2.8	0.6	-0.5
-45	2.9	-2.9	0.6	-0.6
-44	3.1	-3.1	0.7	-0.6
-43	3.2	-3.2	0.7	-0.7
-42	3.4	-3.4	0.8	-0.7
-41	3.5	-3.5	0.8	-0.8
-40	3.7	-3.7	0.9	-0.9
-39	3.9	-3.8	1.0	-1.0
-38	4.0	-4.0	1.1	-1.0
-37	4.3	-4.2	1.2	-1.1
-36	4.5	-4.5	1.3	-1.2
-35	4.7	-4.7	1.4	-1.4
-34	5.0	-4.9	1.6	-1.5
-33	5.2	-5.2	1.7	-1.6

Continued on next page

Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-32	5.5	-5.5	1.9	-1.8
-31	5.9	-5.8	2.1	-2.0
-30	6.2	-6.2	2.3	-2.2
-29	6.6	-6.6	2.6	-2.5
-28	7.0	-7.0	2.8	-2.7
-27	7.4	-7.4	3.2	-3.1
-26	7.9	-7.9	3.6	-3.4
-25	8.5	-8.4	4.0	-3.8
-24	9.1	-9.0	4.5	-4.3
-23	9.7	-9.6	5.1	-4.9
-22	10.4	-10.3	5.8	-5.6
-21	11.1	-11.0	6.6	-6.3
-20	12.0	-11.8	7.6	-7.3
-19	12.9	-12.6	8.8	-8.4
-18	13.9	-13.6	10.1	-9.7
-17	14.9	-14.5	11.7	-11.2
-16	16.0	-15.5	13.7	-13.1
-15	17.2	-16.5	16.1	-15.4
-14	18.4	-17.5	18.9	-18.1
-13	19.5	-18.3	22.4	-21.5
-12	20.5	-18.8	26.6	-25.6
-11	21.3	-18.8	31.8	-30.6
-10	21.4	-18.0	37.9	-36.6
-9	20.7	-15.7	45.3	-43.8
-8	18.4	-11.4	53.8	-52.3
-7	13.7	-3.9	63.3	-61.7
-6	5.4	8.0	73.3	-71.2
-5	-8.0	25.2	82.4	-79.0
-4	-27.8	48.2	88.8	-82.1
-3	-54.3	75.5	89.2	-76.3
-2	-85.0	103.3	80.6	-58.7
-1	-113.0	125.5	60.9	-29.8
0	-128.1	136.0	31.2	4.9
1	-123.7	132.0	-3.3	37.5
2	-102.8	115.2	-35.1	61.8
3	-75.0	91.0	-57.9	75.5
4	-48.3	65.3	-69.6	79.7
5	-26.7	42.2	-71.9	77.3
6	-11.0	23.8	-68.2	71.1
7	-0.3	10.2	-61.5	63.2
8	6.6	0.9	-53.9	55.1
9	10.8	-5.3	-46.6	47.5
10	13.1	-9.1	-39.9	40.7
11	14.3	-11.3	-34.1	34.9

Continued on next page

Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
12	14.6	-12.5	-29.2	29.9
13	14.5	-12.9	-25.0	25.6
14	14.1	-12.9	-21.5	22.1
15	13.5	-12.6	-18.6	19.1
16	12.9	-12.2	-16.2	16.6
17	12.2	-11.7	-14.1	14.5
18	11.5	-11.1	-12.4	12.7
19	10.8	-10.5	-10.9	11.2
20	10.2	-9.9	-9.6	9.9
21	9.5	-9.3	-8.6	8.8
22	9.0	-8.8	-7.7	7.9
23	8.4	-8.3	-6.9	7.0
24	7.9	-7.8	-6.2	6.3
25	7.5	-7.4	-5.6	5.7
26	7.0	-7.0	-5.0	5.2
27	6.6	-6.6	-4.6	4.7
28	6.3	-6.2	-4.2	4.3
29	5.9	-5.9	-3.8	3.9
30	5.6	-5.6	-3.5	3.6
31	5.3	-5.3	-3.2	3.3
32	5.0	-5.0	-3.0	3.0
33	4.8	-4.7	-2.7	2.8
34	4.5	-4.5	-2.5	2.6
35	4.3	-4.3	-2.3	2.4
36	4.1	-4.1	-2.2	2.2
37	3.9	-3.9	-2.0	2.1
38	3.7	-3.7	-1.9	1.9
39	3.6	-3.6	-1.8	1.8
40	3.4	-3.4	-1.7	1.7
41	3.3	-3.3	-1.5	1.6
42	3.1	-3.1	-1.5	1.5
43	3.0	-3.0	-1.4	1.4
44	2.9	-2.9	-1.3	1.3
45	2.8	-2.7	-1.2	1.2
46	2.6	-2.6	-1.1	1.2
47	2.5	-2.5	-1.1	1.1
48	2.4	-2.4	-1.0	1.0
49	2.4	-2.3	-1.0	1.0
50	2.3	-2.3	-0.9	0.9
51	2.2	-2.2	-0.9	0.9
52	2.1	-2.1	-0.8	0.8
53	2.0	-2.0	-0.8	0.8
54	2.0	-2.0	-0.8	0.8
55	1.9	-1.9	-0.7	0.7

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Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
56	1.8	-1.8	-0.7	0.7
57	1.8	-1.8	-0.7	0.7
58	1.7	-1.7	-0.6	0.6
59	1.7	-1.7	-0.6	0.6
60	1.6	-1.6	-0.6	0.6
61	1.6	-1.6	-0.5	0.6
62	1.5	-1.5	-0.5	0.5
63	1.5	-1.5	-0.5	0.5
64	1.4	-1.4	-0.5	0.5
65	1.4	-1.4	-0.5	0.5
66	1.3	-1.3	-0.4	0.4
67	1.3	-1.3	-0.4	0.4
68	1.3	-1.3	-0.4	0.4
69	1.2	-1.2	-0.4	0.4
70	1.2	-1.2	-0.4	0.4
71	1.2	-1.2	-0.4	0.4
72	1.1	-1.1	-0.4	0.4
73	1.1	-1.1	-0.3	0.3
74	1.1	-1.1	-0.3	0.3
75	1.0	-1.0	-0.3	0.3
76	1.0	-1.0	-0.3	0.3
77	1.0	-1.0	-0.3	0.3
78	1.0	-1.0	-0.3	0.3
79	0.9	-0.9	-0.3	0.3
80	0.9	-0.9	-0.3	0.3
81	0.9	-0.9	-0.3	0.3
82	0.9	-0.9	-0.3	0.3
83	0.9	-0.9	-0.2	0.2
84	0.8	-0.8	-0.2	0.2
85	0.8	-0.8	-0.2	0.2
86	0.8	-0.8	-0.2	0.2
87	0.8	-0.8	-0.2	0.2
88	0.8	-0.8	-0.2	0.2
89	0.8	-0.8	-0.2	0.2
90	0.7	-0.7	-0.2	0.2
91	0.7	-0.7	-0.2	0.2
92	0.7	-0.7	-0.2	0.2
93	0.7	-0.7	-0.2	0.2
94	0.7	-0.7	-0.2	0.2
95	0.7	-0.7	-0.2	0.2
96	0.6	-0.6	-0.2	0.2
97	0.6	-0.6	-0.2	0.2
98	0.6	-0.6	-0.2	0.2
99	0.6	-0.6	-0.2	0.2

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Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
100	0.6	-0.6	-0.2	0.2
101	0.6	-0.6	-0.1	0.1
102	0.6	-0.6	-0.1	0.1
103	0.6	-0.6	-0.1	0.1
104	0.6	-0.6	-0.1	0.1
105	0.5	-0.5	-0.1	0.1
106	0.5	-0.5	-0.1	0.1
107	0.5	-0.5	-0.1	0.1
108	0.5	-0.5	-0.1	0.1
109	0.5	-0.5	-0.1	0.1
110	0.5	-0.5	-0.1	0.1
111	0.5	-0.5	-0.1	0.1
112	0.5	-0.5	-0.1	0.1
113	0.5	-0.5	-0.1	0.1
114	0.5	-0.5	-0.1	0.1
115	0.5	-0.5	-0.1	0.1
116	0.4	-0.4	-0.1	0.1
117	0.4	-0.4	-0.1	0.1
118	0.4	-0.4	-0.1	0.1
119	0.4	-0.4	-0.1	0.1
120	0.4	-0.4	-0.1	0.1
121	0.4	-0.4	-0.1	0.1
122	0.4	-0.4	-0.1	0.1
123	0.4	-0.4	-0.1	0.1
124	0.4	-0.4	-0.1	0.1
125	0.4	-0.4	-0.1	0.1
126	0.4	-0.4	-0.1	0.1
127	0.4	-0.4	-0.1	0.1
128	0.4	-0.4	-0.1	0.1
129	0.4	-0.4	-0.1	0.1
130	0.4	-0.4	-0.1	0.1
131	0.4	-0.4	-0.1	0.1
132	0.3	-0.3	-0.1	0.1
133	0.3	-0.3	-0.1	0.1
134	0.3	-0.3	-0.1	0.1
135	0.3	-0.3	-0.1	0.1
136	0.3	-0.3	-0.1	0.1
137	0.3	-0.3	-0.1	0.1
138	0.3	-0.3	-0.1	0.1
139	0.3	-0.3	-0.1	0.1
140	0.3	-0.3	-0.1	0.1
141	0.3	-0.3	-0.1	0.1
142	0.3	-0.3	-0.1	0.1
143	0.3	-0.3	-0.1	0.1

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Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
144	0.3	-0.3	-0.1	0.1
145	0.3	-0.3	-0.1	0.1
146	0.3	-0.3	-0.1	0.1
147	0.3	-0.3	-0.1	0.1
148	0.3	-0.3	-0.1	0.1
149	0.3	-0.3	-0.1	0.1
150	0.3	-0.3	-0.1	0.1
151	0.3	-0.3	-0.1	0.1
152	0.3	-0.3	-0.1	0.1
153	0.3	-0.3	-0.1	0.1
154	0.3	-0.3	-0.1	0.1
155	0.3	-0.3	-0.1	0.1
156	0.2	-0.2	-0.1	0.1
157	0.2	-0.2	0	0
158	0.2	-0.2	0	0
159	0.2	-0.2	0	0
160	0.2	-0.2	0	0
161	0.2	-0.2	0	0
162	0.2	-0.2	0	0
163	0.2	-0.2	0	0
164	0.2	-0.2	0	0
165	0.2	-0.2	0	0
166	0.2	-0.2	0	0
167	0.2	-0.2	0	0
168	0.2	-0.2	0	0
169	0.2	-0.2	0	0
170	0.2	-0.2	0	0
171	0.2	-0.2	0	0
172	0.2	-0.2	0	0
173	0.2	-0.2	0	0
174	0.2	-0.2	0	0
175	0.2	-0.2	0	0
176	0.2	-0.2	0	0
177	0.2	-0.2	0	0
178	0.2	-0.2	0	0
179	0.2	-0.2	0	0
180	0.2	-0.2	0	0
181	0.2	-0.2	0	0
182	0.2	-0.2	0	0
183	0.2	-0.2	0	0
184	0.2	-0.2	0	0
185	0.2	-0.2	0	0
186	0.2	-0.2	0	0
187	0.2	-0.2	0	0

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Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
188	0.2	-0.2	0	0
189	0.2	-0.2	0	0
190	0.2	-0.2	0	0
191	0.2	-0.2	0	0
192	0.2	-0.2	0	0
193	0.2	-0.2	0	0
194	0.2	-0.2	0	0
195	0.2	-0.2	0	0
196	0.2	-0.2	0	0
197	0.2	-0.2	0	0
198	0.2	-0.2	0	0
199	0.2	-0.2	0	0
200	0.2	-0.2	0	0
201	0.2	-0.2	0	0
202	0.1	-0.1	0	0
203	0.1	-0.1	0	0
204	0.1	-0.1	0	0
205	0.1	-0.1	0	0
206	0.1	-0.1	0	0
207	0.1	-0.1	0	0
208	0.1	-0.1	0	0
209	0.1	-0.1	0	0
210	0.1	-0.1	0	0
211	0.1	-0.1	0	0
212	0.1	-0.1	0	0
213	0.1	-0.1	0	0
214	0.1	-0.1	0	0
215	0.1	-0.1	0	0
216	0.1	-0.1	0	0
217	0.1	-0.1	0	0
218	0.1	-0.1	0	0
219	0.1	-0.1	0	0
220	0.1	-0.1	0	0
221	0.1	-0.1	0	0
222	0.1	-0.1	0	0
223	0.1	-0.1	0	0
224	0.1	-0.1	0	0
225	0.1	-0.1	0	0
226	0.1	-0.1	0	0
227	0.1	-0.1	0	0
228	0.1	-0.1	0	0
229	0.1	-0.1	0	0
230	0.1	-0.1	0	0
231	0.1	-0.1	0	0

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Table E-1 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
232	0.1	-0.1	0	0
233	0.1	-0.1	0	0
234	0.1	-0.1	0	0
235	0.1	-0.1	0	0
236	0.1	-0.1	0	0
237	0.1	-0.1	0	0
238	0.1	-0.1	0	0
239	0.1	-0.1	0	0
240	0.1	-0.1	0	0
241	0.1	-0.1	0	0
242	0.1	-0.1	0	0
243	0.1	-0.1	0	0
244	0.1	-0.1	0	0
245	0.1	-0.1	0	0
246	0.1	-0.1	0	0
247	0.1	-0.1	0	0
248	0.1	-0.1	0	0
249	0.1	-0.1	0	0
250	0.1	-0.1	0	0

Table E-2. Calculated differences between the Earths DC magnetic field and the DC magnetic field around the SRWEC–NYS for cables oriented east-west (0° north of east) with different configurations

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-250	0.1	-0.1	0	0
-249	0.1	-0.1	0	0
-248	0.1	-0.1	0	0
-247	0.1	-0.1	0	0
-246	0.1	-0.1	0	0
-245	0.1	-0.1	0	0
-244	0.1	-0.1	0	0
-243	0.1	-0.1	0	0
-242	0.1	-0.1	0	0
-241	0.1	-0.1	0	0
-240	0.1	-0.1	0	0
-239	0.1	-0.1	0	0
-238	0.1	-0.1	0	0
-237	0.1	-0.1	0	0
-236	0.1	-0.1	0	0
-235	0.1	-0.1	0	0
-234	0.1	-0.1	0	0
-233	0.1	-0.1	0	0
-232	0.1	-0.1	0	0
-231	0.1	-0.1	0	0
-230	0.1	-0.1	0	0
-229	0.1	-0.1	0	0
-228	0.1	-0.1	0	0
-227	0.1	-0.1	0	0
-226	0.1	-0.1	0	0
-225	0.1	-0.1	0	0
-224	0.1	-0.1	0	0
-223	0.1	-0.1	0	0
-222	0.1	-0.1	0	0
-221	0.1	-0.1	0	0
-220	0.1	-0.1	0	0
-219	0.1	-0.1	0	0
-218	0.1	-0.1	0	0
-217	0.1	-0.1	0	0
-216	0.1	-0.1	-0.1	0.1
-215	0.1	-0.1	-0.1	0.1
-214	0.1	-0.1	-0.1	0.1
-213	0.1	-0.1	-0.1	0.1
-212	0.1	-0.1	-0.1	0.1
-211	0.1	-0.1	-0.1	0.1
-210	0.1	-0.1	-0.1	0.1
-209	0.1	-0.1	-0.1	0.1

Continued on next page

Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-208	0.1	-0.1	-0.1	0.1
-207	0.1	-0.1	-0.1	0.1
-206	0.1	-0.1	-0.1	0.1
-205	0.2	-0.2	-0.1	0.1
-204	0.2	-0.2	-0.1	0.1
-203	0.2	-0.2	-0.1	0.1
-202	0.2	-0.2	-0.1	0.1
-201	0.2	-0.2	-0.1	0.1
-200	0.2	-0.2	-0.1	0.1
-199	0.2	-0.2	-0.1	0.1
-198	0.2	-0.2	-0.1	0.1
-197	0.2	-0.2	-0.1	0.1
-196	0.2	-0.2	-0.1	0.1
-195	0.2	-0.2	-0.1	0.1
-194	0.2	-0.2	-0.1	0.1
-193	0.2	-0.2	-0.1	0.1
-192	0.2	-0.2	-0.1	0.1
-191	0.2	-0.2	-0.1	0.1
-190	0.2	-0.2	-0.1	0.1
-189	0.2	-0.2	-0.1	0.1
-188	0.2	-0.2	-0.1	0.1
-187	0.2	-0.2	-0.1	0.1
-186	0.2	-0.2	-0.1	0.1
-185	0.2	-0.2	-0.1	0.1
-184	0.2	-0.2	-0.1	0.1
-183	0.2	-0.2	-0.1	0.1
-182	0.2	-0.2	-0.1	0.1
-181	0.2	-0.2	-0.1	0.1
-180	0.2	-0.2	-0.1	0.1
-179	0.2	-0.2	-0.1	0.1
-178	0.2	-0.2	-0.1	0.1
-177	0.2	-0.2	-0.1	0.1
-176	0.2	-0.2	-0.1	0.1
-175	0.2	-0.2	-0.1	0.1
-174	0.2	-0.2	-0.1	0.1
-173	0.2	-0.2	-0.1	0.1
-172	0.2	-0.2	-0.1	0.1
-171	0.2	-0.2	-0.1	0.1
-170	0.2	-0.2	-0.1	0.1
-169	0.2	-0.2	-0.1	0.1
-168	0.2	-0.2	-0.1	0.1
-167	0.2	-0.2	-0.1	0.1
-166	0.2	-0.2	-0.1	0.1
-165	0.2	-0.2	-0.1	0.1

Continued on next page

Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-164	0.2	-0.2	-0.1	0.1
-163	0.2	-0.2	-0.1	0.1
-162	0.2	-0.2	-0.1	0.1
-161	0.2	-0.2	-0.1	0.1
-160	0.2	-0.2	-0.1	0.1
-159	0.3	-0.3	-0.1	0.1
-158	0.3	-0.3	-0.1	0.1
-157	0.3	-0.3	-0.1	0.1
-156	0.3	-0.3	-0.1	0.1
-155	0.3	-0.3	-0.1	0.1
-154	0.3	-0.3	-0.1	0.1
-153	0.3	-0.3	-0.1	0.1
-152	0.3	-0.3	-0.1	0.1
-151	0.3	-0.3	-0.1	0.1
-150	0.3	-0.3	-0.1	0.1
-149	0.3	-0.3	-0.1	0.1
-148	0.3	-0.3	-0.1	0.1
-147	0.3	-0.3	-0.1	0.1
-146	0.3	-0.3	-0.1	0.1
-145	0.3	-0.3	-0.1	0.1
-144	0.3	-0.3	-0.1	0.1
-143	0.3	-0.3	-0.1	0.1
-142	0.3	-0.3	-0.1	0.1
-141	0.3	-0.3	-0.1	0.1
-140	0.3	-0.3	-0.1	0.1
-139	0.3	-0.3	-0.1	0.1
-138	0.3	-0.3	-0.1	0.1
-137	0.3	-0.3	-0.1	0.1
-136	0.3	-0.3	-0.1	0.1
-135	0.4	-0.4	-0.1	0.1
-134	0.4	-0.4	-0.1	0.1
-133	0.4	-0.4	-0.1	0.1
-132	0.4	-0.4	-0.1	0.1
-131	0.4	-0.4	-0.1	0.1
-130	0.4	-0.4	-0.1	0.1
-129	0.4	-0.4	-0.1	0.1
-128	0.4	-0.4	-0.1	0.1
-127	0.4	-0.4	-0.1	0.1
-126	0.4	-0.4	-0.1	0.1
-125	0.4	-0.4	-0.1	0.1
-124	0.4	-0.4	-0.1	0.1
-123	0.4	-0.4	-0.1	0.1
-122	0.4	-0.4	-0.1	0.1
-121	0.4	-0.4	-0.1	0.1

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Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-120	0.4	-0.4	-0.1	0.1
-119	0.5	-0.5	-0.1	0.1
-118	0.5	-0.5	-0.1	0.1
-117	0.5	-0.5	-0.1	0.1
-116	0.5	-0.5	-0.1	0.1
-115	0.5	-0.5	-0.1	0.1
-114	0.5	-0.5	-0.2	0.2
-113	0.5	-0.5	-0.2	0.2
-112	0.5	-0.5	-0.2	0.2
-111	0.5	-0.5	-0.2	0.2
-110	0.5	-0.5	-0.2	0.2
-109	0.5	-0.5	-0.2	0.2
-108	0.6	-0.6	-0.2	0.2
-107	0.6	-0.6	-0.2	0.2
-106	0.6	-0.6	-0.2	0.2
-105	0.6	-0.6	-0.2	0.2
-104	0.6	-0.6	-0.2	0.2
-103	0.6	-0.6	-0.2	0.2
-102	0.6	-0.6	-0.2	0.2
-101	0.6	-0.6	-0.2	0.2
-100	0.6	-0.6	-0.2	0.2
-99	0.7	-0.7	-0.2	0.2
-98	0.7	-0.7	-0.2	0.2
-97	0.7	-0.7	-0.2	0.2
-96	0.7	-0.7	-0.2	0.2
-95	0.7	-0.7	-0.2	0.2
-94	0.7	-0.7	-0.2	0.2
-93	0.7	-0.7	-0.2	0.2
-92	0.8	-0.8	-0.2	0.2
-91	0.8	-0.8	-0.2	0.2
-90	0.8	-0.8	-0.2	0.2
-89	0.8	-0.8	-0.2	0.2
-88	0.8	-0.8	-0.2	0.2
-87	0.9	-0.9	-0.2	0.2
-86	0.9	-0.9	-0.2	0.2
-85	0.9	-0.9	-0.2	0.2
-84	0.9	-0.9	-0.2	0.2
-83	0.9	-0.9	-0.2	0.2
-82	1.0	-1.0	-0.2	0.2
-81	1.0	-1.0	-0.2	0.3
-80	1.0	-1.0	-0.3	0.3
-79	1.0	-1.0	-0.3	0.3
-78	1.1	-1.1	-0.3	0.3
-77	1.1	-1.1	-0.3	0.3

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Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-76	1.1	-1.1	-0.3	0.3
-75	1.2	-1.2	-0.3	0.3
-74	1.2	-1.2	-0.3	0.3
-73	1.2	-1.2	-0.3	0.3
-72	1.3	-1.3	-0.3	0.3
-71	1.3	-1.3	-0.3	0.3
-70	1.3	-1.3	-0.3	0.3
-69	1.4	-1.4	-0.3	0.3
-68	1.4	-1.4	-0.3	0.3
-67	1.5	-1.5	-0.3	0.3
-66	1.5	-1.5	-0.3	0.3
-65	1.5	-1.5	-0.3	0.3
-64	1.6	-1.6	-0.3	0.3
-63	1.6	-1.6	-0.3	0.3
-62	1.7	-1.7	-0.3	0.3
-61	1.8	-1.8	-0.3	0.3
-60	1.8	-1.8	-0.3	0.3
-59	1.9	-1.9	-0.3	0.4
-58	1.9	-1.9	-0.3	0.4
-57	2.0	-2.0	-0.4	0.4
-56	2.1	-2.1	-0.4	0.4
-55	2.2	-2.2	-0.4	0.4
-54	2.3	-2.2	-0.4	0.4
-53	2.3	-2.3	-0.4	0.4
-52	2.4	-2.4	-0.4	0.4
-51	2.5	-2.5	-0.4	0.4
-50	2.6	-2.6	-0.4	0.4
-49	2.7	-2.7	-0.4	0.4
-48	2.8	-2.8	-0.4	0.4
-47	3.0	-3.0	-0.4	0.4
-46	3.1	-3.1	-0.4	0.4
-45	3.2	-3.2	-0.3	0.4
-44	3.4	-3.4	-0.3	0.4
-43	3.5	-3.5	-0.3	0.3
-42	3.7	-3.7	-0.3	0.3
-41	3.9	-3.9	-0.3	0.3
-40	4.1	-4.1	-0.3	0.3
-39	4.3	-4.3	-0.2	0.3
-38	4.5	-4.5	-0.2	0.3
-37	4.8	-4.8	-0.2	0.2
-36	5.0	-5.0	-0.1	0.2
-35	5.3	-5.3	-0.1	0.1
-34	5.6	-5.6	0	0.1
-33	6.0	-6.0	0	0

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Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-32	6.3	-6.3	0.1	0
-31	6.7	-6.7	0.2	-0.1
-30	7.1	-7.1	0.3	-0.2
-29	7.6	-7.6	0.5	-0.4
-28	8.1	-8.1	0.7	-0.5
-27	8.7	-8.7	0.9	-0.7
-26	9.3	-9.3	1.1	-0.9
-25	10.0	-10.0	1.4	-1.2
-24	10.8	-10.8	1.7	-1.5
-23	11.6	-11.6	2.2	-1.9
-22	12.6	-12.5	2.7	-2.4
-21	13.6	-13.6	3.3	-2.9
-20	14.7	-14.7	4.0	-3.6
-19	16.0	-16.0	5.0	-4.5
-18	17.5	-17.4	6.1	-5.5
-17	19.0	-18.9	7.5	-6.8
-16	20.8	-20.7	9.2	-8.4
-15	22.7	-22.5	11.4	-10.4
-14	24.8	-24.5	14.1	-12.9
-13	27.1	-26.6	17.4	-16.1
-12	29.5	-28.6	21.7	-20.1
-11	31.8	-30.5	27.0	-25.2
-10	34.0	-31.9	33.6	-31.6
-9	35.6	-32.2	41.7	-39.7
-8	36.1	-30.8	51.7	-49.7
-7	34.5	-26.3	63.4	-61.8
-6	29.6	-17.3	76.6	-75.7
-5	19.5	-1.9	90.3	-90.0
-4	2.1	21.0	102.4	-101.9
-3	-24.3	50.9	109.7	-106.3
-2	-59.0	84.5	108.4	-97.7
-1	-97.1	115.3	95.0	-73.8
0	-128.1	136.0	69.3	-38.4
1	-140.8	141.9	34.9	-0.6
2	-131.9	133.1	-0.9	31.6
3	-108.8	114.0	-31.0	53.7
4	-81.7	90.5	-51.2	65.5
5	-57.0	67.3	-61.4	69.3
6	-37.3	47.2	-63.8	67.7
7	-22.6	31.2	-61.4	63.1
8	-12.1	19.1	-56.5	57.2
9	-4.9	10.4	-50.8	51.0
10	0.1	4.2	-45.0	45.0
11	3.3	-0.1	-39.6	39.6

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Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
12	5.4	-3.0	-34.7	34.8
13	6.7	-4.8	-30.5	30.6
14	7.5	-6.0	-26.8	26.9
15	7.9	-6.8	-23.6	23.7
16	8.0	-7.1	-20.9	21.0
17	8.0	-7.3	-18.6	18.7
18	7.8	-7.3	-16.6	16.7
19	7.6	-7.2	-14.8	14.9
20	7.4	-7.0	-13.3	13.4
21	7.1	-6.8	-12.0	12.1
22	6.8	-6.6	-10.9	11.0
23	6.5	-6.3	-9.9	10.0
24	6.2	-6.0	-9.0	9.1
25	5.9	-5.8	-8.2	8.3
26	5.6	-5.5	-7.5	7.6
27	5.4	-5.3	-6.9	7.0
28	5.1	-5.0	-6.4	6.4
29	4.9	-4.8	-5.9	6.0
30	4.7	-4.6	-5.5	5.5
31	4.4	-4.4	-5.1	5.1
32	4.2	-4.2	-4.7	4.8
33	4.1	-4.0	-4.4	4.4
34	3.9	-3.8	-4.1	4.1
35	3.7	-3.7	-3.9	3.9
36	3.5	-3.5	-3.6	3.6
37	3.4	-3.4	-3.4	3.4
38	3.3	-3.2	-3.2	3.2
39	3.1	-3.1	-3.0	3.0
40	3.0	-3.0	-2.8	2.9
41	2.9	-2.9	-2.7	2.7
42	2.8	-2.7	-2.5	2.6
43	2.7	-2.6	-2.4	2.4
44	2.6	-2.5	-2.3	2.3
45	2.5	-2.4	-2.2	2.2
46	2.4	-2.4	-2.1	2.1
47	2.3	-2.3	-2.0	2.0
48	2.2	-2.2	-1.9	1.9
49	2.1	-2.1	-1.8	1.8
50	2.0	-2.0	-1.7	1.7
51	2.0	-2.0	-1.6	1.6
52	1.9	-1.9	-1.6	1.6
53	1.9	-1.8	-1.5	1.5
54	1.8	-1.8	-1.4	1.4
55	1.7	-1.7	-1.4	1.4

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Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
56	1.7	-1.7	-1.3	1.3
57	1.6	-1.6	-1.3	1.3
58	1.6	-1.6	-1.2	1.2
59	1.5	-1.5	-1.2	1.2
60	1.5	-1.5	-1.1	1.1
61	1.4	-1.4	-1.1	1.1
62	1.4	-1.4	-1.0	1.0
63	1.4	-1.4	-1.0	1.0
64	1.3	-1.3	-1.0	1.0
65	1.3	-1.3	-0.9	0.9
66	1.2	-1.2	-0.9	0.9
67	1.2	-1.2	-0.9	0.9
68	1.2	-1.2	-0.8	0.8
69	1.1	-1.1	-0.8	0.8
70	1.1	-1.1	-0.8	0.8
71	1.1	-1.1	-0.8	0.8
72	1.1	-1.1	-0.7	0.7
73	1.0	-1.0	-0.7	0.7
74	1.0	-1.0	-0.7	0.7
75	1.0	-1.0	-0.7	0.7
76	1.0	-1.0	-0.7	0.7
77	0.9	-0.9	-0.6	0.6
78	0.9	-0.9	-0.6	0.6
79	0.9	-0.9	-0.6	0.6
80	0.9	-0.9	-0.6	0.6
81	0.9	-0.9	-0.6	0.6
82	0.8	-0.8	-0.6	0.6
83	0.8	-0.8	-0.5	0.5
84	0.8	-0.8	-0.5	0.5
85	0.8	-0.8	-0.5	0.5
86	0.8	-0.8	-0.5	0.5
87	0.7	-0.7	-0.5	0.5
88	0.7	-0.7	-0.5	0.5
89	0.7	-0.7	-0.5	0.5
90	0.7	-0.7	-0.5	0.5
91	0.7	-0.7	-0.4	0.4
92	0.7	-0.7	-0.4	0.4
93	0.7	-0.7	-0.4	0.4
94	0.6	-0.6	-0.4	0.4
95	0.6	-0.6	-0.4	0.4
96	0.6	-0.6	-0.4	0.4
97	0.6	-0.6	-0.4	0.4
98	0.6	-0.6	-0.4	0.4
99	0.6	-0.6	-0.4	0.4

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Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
100	0.6	-0.6	-0.4	0.4
101	0.6	-0.6	-0.3	0.4
102	0.6	-0.6	-0.3	0.3
103	0.5	-0.5	-0.3	0.3
104	0.5	-0.5	-0.3	0.3
105	0.5	-0.5	-0.3	0.3
106	0.5	-0.5	-0.3	0.3
107	0.5	-0.5	-0.3	0.3
108	0.5	-0.5	-0.3	0.3
109	0.5	-0.5	-0.3	0.3
110	0.5	-0.5	-0.3	0.3
111	0.5	-0.5	-0.3	0.3
112	0.5	-0.5	-0.3	0.3
113	0.5	-0.5	-0.3	0.3
114	0.4	-0.4	-0.3	0.3
115	0.4	-0.4	-0.3	0.3
116	0.4	-0.4	-0.3	0.3
117	0.4	-0.4	-0.3	0.3
118	0.4	-0.4	-0.2	0.2
119	0.4	-0.4	-0.2	0.2
120	0.4	-0.4	-0.2	0.2
121	0.4	-0.4	-0.2	0.2
122	0.4	-0.4	-0.2	0.2
123	0.4	-0.4	-0.2	0.2
124	0.4	-0.4	-0.2	0.2
125	0.4	-0.4	-0.2	0.2
126	0.4	-0.4	-0.2	0.2
127	0.4	-0.4	-0.2	0.2
128	0.4	-0.4	-0.2	0.2
129	0.4	-0.4	-0.2	0.2
130	0.3	-0.3	-0.2	0.2
131	0.3	-0.3	-0.2	0.2
132	0.3	-0.3	-0.2	0.2
133	0.3	-0.3	-0.2	0.2
134	0.3	-0.3	-0.2	0.2
135	0.3	-0.3	-0.2	0.2
136	0.3	-0.3	-0.2	0.2
137	0.3	-0.3	-0.2	0.2
138	0.3	-0.3	-0.2	0.2
139	0.3	-0.3	-0.2	0.2
140	0.3	-0.3	-0.2	0.2
141	0.3	-0.3	-0.2	0.2
142	0.3	-0.3	-0.2	0.2
143	0.3	-0.3	-0.2	0.2

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Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
144	0.3	-0.3	-0.2	0.2
145	0.3	-0.3	-0.2	0.2
146	0.3	-0.3	-0.2	0.2
147	0.3	-0.3	-0.2	0.2
148	0.3	-0.3	-0.2	0.2
149	0.3	-0.3	-0.1	0.1
150	0.3	-0.3	-0.1	0.1
151	0.3	-0.3	-0.1	0.1
152	0.3	-0.3	-0.1	0.1
153	0.3	-0.3	-0.1	0.1
154	0.2	-0.2	-0.1	0.1
155	0.2	-0.2	-0.1	0.1
156	0.2	-0.2	-0.1	0.1
157	0.2	-0.2	-0.1	0.1
158	0.2	-0.2	-0.1	0.1
159	0.2	-0.2	-0.1	0.1
160	0.2	-0.2	-0.1	0.1
161	0.2	-0.2	-0.1	0.1
162	0.2	-0.2	-0.1	0.1
163	0.2	-0.2	-0.1	0.1
164	0.2	-0.2	-0.1	0.1
165	0.2	-0.2	-0.1	0.1
166	0.2	-0.2	-0.1	0.1
167	0.2	-0.2	-0.1	0.1
168	0.2	-0.2	-0.1	0.1
169	0.2	-0.2	-0.1	0.1
170	0.2	-0.2	-0.1	0.1
171	0.2	-0.2	-0.1	0.1
172	0.2	-0.2	-0.1	0.1
173	0.2	-0.2	-0.1	0.1
174	0.2	-0.2	-0.1	0.1
175	0.2	-0.2	-0.1	0.1
176	0.2	-0.2	-0.1	0.1
177	0.2	-0.2	-0.1	0.1
178	0.2	-0.2	-0.1	0.1
179	0.2	-0.2	-0.1	0.1
180	0.2	-0.2	-0.1	0.1
181	0.2	-0.2	-0.1	0.1
182	0.2	-0.2	-0.1	0.1
183	0.2	-0.2	-0.1	0.1
184	0.2	-0.2	-0.1	0.1
185	0.2	-0.2	-0.1	0.1
186	0.2	-0.2	-0.1	0.1
187	0.2	-0.2	-0.1	0.1

Continued on next page

Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
188	0.2	-0.2	-0.1	0.1
189	0.2	-0.2	-0.1	0.1
190	0.2	-0.2	-0.1	0.1
191	0.2	-0.2	-0.1	0.1
192	0.2	-0.2	-0.1	0.1
193	0.2	-0.2	-0.1	0.1
194	0.2	-0.2	-0.1	0.1
195	0.2	-0.2	-0.1	0.1
196	0.2	-0.2	-0.1	0.1
197	0.2	-0.2	-0.1	0.1
198	0.2	-0.2	-0.1	0.1
199	0.2	-0.2	-0.1	0.1
200	0.1	-0.1	-0.1	0.1
201	0.1	-0.1	-0.1	0.1
202	0.1	-0.1	-0.1	0.1
203	0.1	-0.1	-0.1	0.1
204	0.1	-0.1	-0.1	0.1
205	0.1	-0.1	-0.1	0.1
206	0.1	-0.1	-0.1	0.1
207	0.1	-0.1	-0.1	0.1
208	0.1	-0.1	-0.1	0.1
209	0.1	-0.1	-0.1	0.1
210	0.1	-0.1	-0.1	0.1
211	0.1	-0.1	-0.1	0.1
212	0.1	-0.1	-0.1	0.1
213	0.1	-0.1	-0.1	0.1
214	0.1	-0.1	-0.1	0.1
215	0.1	-0.1	-0.1	0.1
216	0.1	-0.1	-0.1	0.1
217	0.1	-0.1	-0.1	0.1
218	0.1	-0.1	-0.1	0.1
219	0.1	-0.1	-0.1	0.1
220	0.1	-0.1	-0.1	0.1
221	0.1	-0.1	-0.1	0.1
222	0.1	-0.1	-0.1	0.1
223	0.1	-0.1	-0.1	0.1
224	0.1	-0.1	-0.1	0.1
225	0.1	-0.1	-0.1	0.1
226	0.1	-0.1	-0.1	0.1
227	0.1	-0.1	-0.1	0.1
228	0.1	-0.1	-0.1	0.1
229	0.1	-0.1	-0.1	0.1
230	0.1	-0.1	-0.1	0.1
231	0.1	-0.1	-0.1	0.1

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Table E-2 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
232	0.1	-0.1	-0.1	0.1
233	0.1	-0.1	-0.1	0.1
234	0.1	-0.1	-0.1	0.1
235	0.1	-0.1	-0.1	0.1
236	0.1	-0.1	-0.1	0.1
237	0.1	-0.1	-0.1	0.1
238	0.1	-0.1	-0.1	0.1
239	0.1	-0.1	-0.1	0.1
240	0.1	-0.1	-0.1	0.1
241	0.1	-0.1	-0.1	0.1
242	0.1	-0.1	-0.1	0.1
243	0.1	-0.1	-0.1	0.1
244	0.1	-0.1	-0.1	0.1
245	0.1	-0.1	-0.1	0.1
246	0.1	-0.1	-0.1	0.1
247	0.1	-0.1	-0.1	0.1
248	0.1	-0.1	-0.1	0.1
249	0.1	-0.1	0	0
250	0.1	-0.1	0	0

Table E-3. Calculated differences between the Earth's DC magnetic field and the DC magnetic field around the SRWEC-NYS for cables oriented 30° north of east with different configurations

Dist (feet)	SRWEC-NYS (+ on left)	SRWEC-NYS (+ on right)	SRWEC-NYS (+ on top)	SRWEC-NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-250	0.1	-0.1	0	0
-249	0.1	-0.1	0	0
-248	0.1	-0.1	0	0
-247	0.1	-0.1	0	0
-246	0.1	-0.1	0	0
-245	0.1	-0.1	0	0
-244	0.1	-0.1	0	0
-243	0.1	-0.1	0	0
-242	0.1	-0.1	0	0
-241	0.1	-0.1	0	0
-240	0.1	-0.1	0	0
-239	0.1	-0.1	0	0
-238	0.1	-0.1	0	0
-237	0.1	-0.1	0	0
-236	0.1	-0.1	0	0
-235	0.1	-0.1	0	0
-234	0.1	-0.1	0	0
-233	0.1	-0.1	0	0
-232	0.1	-0.1	0	0
-231	0.1	-0.1	0	0
-230	0.1	-0.1	0	0
-229	0.1	-0.1	0	0
-228	0.1	-0.1	0	0
-227	0.1	-0.1	0	0
-226	0.1	-0.1	0	0
-225	0.1	-0.1	0	0
-224	0.1	-0.1	0	0
-223	0.1	-0.1	0	0
-222	0.1	-0.1	0	0
-221	0.1	-0.1	0	0
-220	0.1	-0.1	0	0
-219	0.1	-0.1	0	0
-218	0.1	-0.1	0	0
-217	0.1	-0.1	0	0
-216	0.1	-0.1	0	0
-215	0.1	-0.1	-0.1	0.1
-214	0.1	-0.1	-0.1	0.1
-213	0.1	-0.1	-0.1	0.1
-212	0.1	-0.1	-0.1	0.1
-211	0.1	-0.1	-0.1	0.1
-210	0.1	-0.1	-0.1	0.1
-209	0.1	-0.1	-0.1	0.1

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Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-208	0.1	-0.1	-0.1	0.1
-207	0.1	-0.1	-0.1	0.1
-206	0.1	-0.1	-0.1	0.1
-205	0.2	-0.2	-0.1	0.1
-204	0.2	-0.2	-0.1	0.1
-203	0.2	-0.2	-0.1	0.1
-202	0.2	-0.2	-0.1	0.1
-201	0.2	-0.2	-0.1	0.1
-200	0.2	-0.2	-0.1	0.1
-199	0.2	-0.2	-0.1	0.1
-198	0.2	-0.2	-0.1	0.1
-197	0.2	-0.2	-0.1	0.1
-196	0.2	-0.2	-0.1	0.1
-195	0.2	-0.2	-0.1	0.1
-194	0.2	-0.2	-0.1	0.1
-193	0.2	-0.2	-0.1	0.1
-192	0.2	-0.2	-0.1	0.1
-191	0.2	-0.2	-0.1	0.1
-190	0.2	-0.2	-0.1	0.1
-189	0.2	-0.2	-0.1	0.1
-188	0.2	-0.2	-0.1	0.1
-187	0.2	-0.2	-0.1	0.1
-186	0.2	-0.2	-0.1	0.1
-185	0.2	-0.2	-0.1	0.1
-184	0.2	-0.2	-0.1	0.1
-183	0.2	-0.2	-0.1	0.1
-182	0.2	-0.2	-0.1	0.1
-181	0.2	-0.2	-0.1	0.1
-180	0.2	-0.2	-0.1	0.1
-179	0.2	-0.2	-0.1	0.1
-178	0.2	-0.2	-0.1	0.1
-177	0.2	-0.2	-0.1	0.1
-176	0.2	-0.2	-0.1	0.1
-175	0.2	-0.2	-0.1	0.1
-174	0.2	-0.2	-0.1	0.1
-173	0.2	-0.2	-0.1	0.1
-172	0.2	-0.2	-0.1	0.1
-171	0.2	-0.2	-0.1	0.1
-170	0.2	-0.2	-0.1	0.1
-169	0.2	-0.2	-0.1	0.1
-168	0.2	-0.2	-0.1	0.1
-167	0.2	-0.2	-0.1	0.1
-166	0.2	-0.2	-0.1	0.1
-165	0.2	-0.2	-0.1	0.1

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Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-164	0.2	-0.2	-0.1	0.1
-163	0.2	-0.2	-0.1	0.1
-162	0.2	-0.2	-0.1	0.1
-161	0.2	-0.2	-0.1	0.1
-160	0.2	-0.2	-0.1	0.1
-159	0.3	-0.3	-0.1	0.1
-158	0.3	-0.3	-0.1	0.1
-157	0.3	-0.3	-0.1	0.1
-156	0.3	-0.3	-0.1	0.1
-155	0.3	-0.3	-0.1	0.1
-154	0.3	-0.3	-0.1	0.1
-153	0.3	-0.3	-0.1	0.1
-152	0.3	-0.3	-0.1	0.1
-151	0.3	-0.3	-0.1	0.1
-150	0.3	-0.3	-0.1	0.1
-149	0.3	-0.3	-0.1	0.1
-148	0.3	-0.3	-0.1	0.1
-147	0.3	-0.3	-0.1	0.1
-146	0.3	-0.3	-0.1	0.1
-145	0.3	-0.3	-0.1	0.1
-144	0.3	-0.3	-0.1	0.1
-143	0.3	-0.3	-0.1	0.1
-142	0.3	-0.3	-0.1	0.1
-141	0.3	-0.3	-0.1	0.1
-140	0.3	-0.3	-0.1	0.1
-139	0.3	-0.3	-0.1	0.1
-138	0.3	-0.3	-0.1	0.1
-137	0.3	-0.3	-0.1	0.1
-136	0.3	-0.3	-0.1	0.1
-135	0.4	-0.4	-0.1	0.1
-134	0.4	-0.4	-0.1	0.1
-133	0.4	-0.4	-0.1	0.1
-132	0.4	-0.4	-0.1	0.1
-131	0.4	-0.4	-0.1	0.1
-130	0.4	-0.4	-0.1	0.1
-129	0.4	-0.4	-0.1	0.1
-128	0.4	-0.4	-0.1	0.1
-127	0.4	-0.4	-0.1	0.1
-126	0.4	-0.4	-0.1	0.1
-125	0.4	-0.4	-0.1	0.1
-124	0.4	-0.4	-0.1	0.1
-123	0.4	-0.4	-0.1	0.1
-122	0.4	-0.4	-0.1	0.1
-121	0.4	-0.4	-0.1	0.1

Continued on next page

Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-120	0.4	-0.4	-0.1	0.1
-119	0.5	-0.5	-0.1	0.1
-118	0.5	-0.5	-0.1	0.1
-117	0.5	-0.5	-0.1	0.1
-116	0.5	-0.5	-0.1	0.1
-115	0.5	-0.5	-0.1	0.1
-114	0.5	-0.5	-0.1	0.1
-113	0.5	-0.5	-0.2	0.2
-112	0.5	-0.5	-0.2	0.2
-111	0.5	-0.5	-0.2	0.2
-110	0.5	-0.5	-0.2	0.2
-109	0.5	-0.5	-0.2	0.2
-108	0.6	-0.6	-0.2	0.2
-107	0.6	-0.6	-0.2	0.2
-106	0.6	-0.6	-0.2	0.2
-105	0.6	-0.6	-0.2	0.2
-104	0.6	-0.6	-0.2	0.2
-103	0.6	-0.6	-0.2	0.2
-102	0.6	-0.6	-0.2	0.2
-101	0.6	-0.6	-0.2	0.2
-100	0.6	-0.6	-0.2	0.2
-99	0.7	-0.7	-0.2	0.2
-98	0.7	-0.7	-0.2	0.2
-97	0.7	-0.7	-0.2	0.2
-96	0.7	-0.7	-0.2	0.2
-95	0.7	-0.7	-0.2	0.2
-94	0.7	-0.7	-0.2	0.2
-93	0.7	-0.7	-0.2	0.2
-92	0.8	-0.8	-0.2	0.2
-91	0.8	-0.8	-0.2	0.2
-90	0.8	-0.8	-0.2	0.2
-89	0.8	-0.8	-0.2	0.2
-88	0.8	-0.8	-0.2	0.2
-87	0.9	-0.9	-0.2	0.2
-86	0.9	-0.9	-0.2	0.2
-85	0.9	-0.9	-0.2	0.2
-84	0.9	-0.9	-0.2	0.2
-83	0.9	-0.9	-0.2	0.2
-82	1.0	-1.0	-0.2	0.2
-81	1.0	-1.0	-0.2	0.2
-80	1.0	-1.0	-0.2	0.2
-79	1.0	-1.0	-0.3	0.3
-78	1.1	-1.1	-0.3	0.3
-77	1.1	-1.1	-0.3	0.3

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Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-76	1.1	-1.1	-0.3	0.3
-75	1.2	-1.2	-0.3	0.3
-74	1.2	-1.2	-0.3	0.3
-73	1.2	-1.2	-0.3	0.3
-72	1.3	-1.3	-0.3	0.3
-71	1.3	-1.3	-0.3	0.3
-70	1.3	-1.3	-0.3	0.3
-69	1.4	-1.4	-0.3	0.3
-68	1.4	-1.4	-0.3	0.3
-67	1.5	-1.5	-0.3	0.3
-66	1.5	-1.5	-0.3	0.3
-65	1.5	-1.5	-0.3	0.3
-64	1.6	-1.6	-0.3	0.3
-63	1.6	-1.6	-0.3	0.3
-62	1.7	-1.7	-0.3	0.3
-61	1.8	-1.8	-0.3	0.3
-60	1.8	-1.8	-0.3	0.3
-59	1.9	-1.9	-0.3	0.3
-58	1.9	-1.9	-0.3	0.3
-57	2.0	-2.0	-0.3	0.3
-56	2.1	-2.1	-0.3	0.4
-55	2.2	-2.2	-0.3	0.4
-54	2.2	-2.2	-0.3	0.4
-53	2.3	-2.3	-0.3	0.4
-52	2.4	-2.4	-0.4	0.4
-51	2.5	-2.5	-0.4	0.4
-50	2.6	-2.6	-0.4	0.4
-49	2.7	-2.7	-0.3	0.4
-48	2.8	-2.8	-0.3	0.4
-47	3.0	-3.0	-0.3	0.4
-46	3.1	-3.1	-0.3	0.4
-45	3.2	-3.2	-0.3	0.4
-44	3.4	-3.4	-0.3	0.3
-43	3.5	-3.5	-0.3	0.3
-42	3.7	-3.7	-0.3	0.3
-41	3.9	-3.9	-0.3	0.3
-40	4.1	-4.1	-0.3	0.3
-39	4.3	-4.3	-0.2	0.3
-38	4.5	-4.5	-0.2	0.2
-37	4.8	-4.8	-0.2	0.2
-36	5.0	-5.0	-0.1	0.2
-35	5.3	-5.3	-0.1	0.1
-34	5.6	-5.6	0	0.1
-33	5.9	-5.9	0.1	0

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Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-32	6.3	-6.3	0.2	-0.1
-31	6.7	-6.7	0.3	-0.2
-30	7.1	-7.1	0.4	-0.3
-29	7.6	-7.6	0.5	-0.4
-28	8.1	-8.1	0.7	-0.6
-27	8.7	-8.7	0.9	-0.7
-26	9.3	-9.3	1.1	-1.0
-25	10.0	-10.0	1.4	-1.2
-24	10.7	-10.7	1.8	-1.6
-23	11.6	-11.6	2.2	-1.9
-22	12.5	-12.5	2.7	-2.4
-21	13.6	-13.5	3.3	-3.0
-20	14.7	-14.7	4.1	-3.7
-19	16.0	-15.9	5.0	-4.5
-18	17.4	-17.3	6.2	-5.6
-17	19.0	-18.9	7.6	-6.9
-16	20.7	-20.6	9.3	-8.5
-15	22.7	-22.4	11.4	-10.5
-14	24.8	-24.4	14.1	-13.0
-13	27.0	-26.4	17.5	-16.2
-12	29.3	-28.5	21.7	-20.2
-11	31.7	-30.3	27.0	-25.2
-10	33.8	-31.7	33.6	-31.7
-9	35.4	-32.0	41.8	-39.7
-8	35.8	-30.5	51.7	-49.7
-7	34.2	-26.0	63.4	-61.8
-6	29.3	-16.9	76.6	-75.6
-5	19.1	-1.5	90.2	-89.8
-4	1.7	21.4	102.2	-101.6
-3	-24.7	51.3	109.4	-105.8
-2	-59.4	84.8	108.0	-97.1
-1	-97.3	115.4	94.5	-73.1
0	-128.1	136.0	68.7	-37.8
1	-140.5	141.8	34.4	0
2	-131.4	132.9	-1.4	32.1
3	-108.3	113.7	-31.4	54.0
4	-81.2	90.1	-51.5	65.7
5	-56.6	66.9	-61.5	69.4
6	-36.9	46.9	-63.8	67.7
7	-22.3	30.9	-61.4	63.1
8	-11.8	18.9	-56.5	57.2
9	-4.6	10.1	-50.7	50.9
10	0.3	4.0	-44.9	45.0
11	3.5	-0.2	-39.5	39.5

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Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
12	5.6	-3.1	-34.7	34.7
13	6.9	-5.0	-30.4	30.5
14	7.6	-6.1	-26.7	26.8
15	8.0	-6.8	-23.6	23.7
16	8.1	-7.2	-20.9	21.0
17	8.1	-7.4	-18.5	18.6
18	7.9	-7.4	-16.5	16.6
19	7.7	-7.2	-14.8	14.9
20	7.4	-7.1	-13.3	13.4
21	7.1	-6.8	-12.0	12.1
22	6.8	-6.6	-10.8	10.9
23	6.5	-6.3	-9.8	9.9
24	6.2	-6.1	-9.0	9.0
25	5.9	-5.8	-8.2	8.3
26	5.7	-5.5	-7.5	7.6
27	5.4	-5.3	-6.9	7.0
28	5.1	-5.1	-6.4	6.4
29	4.9	-4.8	-5.9	5.9
30	4.7	-4.6	-5.4	5.5
31	4.5	-4.4	-5.1	5.1
32	4.3	-4.2	-4.7	4.7
33	4.1	-4.0	-4.4	4.4
34	3.9	-3.8	-4.1	4.1
35	3.7	-3.7	-3.8	3.9
36	3.6	-3.5	-3.6	3.6
37	3.4	-3.4	-3.4	3.4
38	3.3	-3.2	-3.2	3.2
39	3.1	-3.1	-3.0	3.0
40	3.0	-3.0	-2.8	2.8
41	2.9	-2.9	-2.7	2.7
42	2.8	-2.8	-2.5	2.5
43	2.7	-2.6	-2.4	2.4
44	2.6	-2.5	-2.3	2.3
45	2.5	-2.5	-2.2	2.2
46	2.4	-2.4	-2.0	2.1
47	2.3	-2.3	-2.0	2.0
48	2.2	-2.2	-1.9	1.9
49	2.1	-2.1	-1.8	1.8
50	2.1	-2.0	-1.7	1.7
51	2.0	-2.0	-1.6	1.6
52	1.9	-1.9	-1.5	1.6
53	1.9	-1.8	-1.5	1.5
54	1.8	-1.8	-1.4	1.4
55	1.7	-1.7	-1.4	1.4

Continued on next page

Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
56	1.7	-1.7	-1.3	1.3
57	1.6	-1.6	-1.3	1.3
58	1.6	-1.6	-1.2	1.2
59	1.5	-1.5	-1.2	1.2
60	1.5	-1.5	-1.1	1.1
61	1.4	-1.4	-1.1	1.1
62	1.4	-1.4	-1.0	1.0
63	1.4	-1.4	-1.0	1.0
64	1.3	-1.3	-1.0	1.0
65	1.3	-1.3	-0.9	0.9
66	1.2	-1.2	-0.9	0.9
67	1.2	-1.2	-0.9	0.9
68	1.2	-1.2	-0.8	0.8
69	1.1	-1.1	-0.8	0.8
70	1.1	-1.1	-0.8	0.8
71	1.1	-1.1	-0.8	0.8
72	1.1	-1.1	-0.7	0.7
73	1.0	-1.0	-0.7	0.7
74	1.0	-1.0	-0.7	0.7
75	1.0	-1.0	-0.7	0.7
76	1.0	-1.0	-0.7	0.7
77	0.9	-0.9	-0.6	0.6
78	0.9	-0.9	-0.6	0.6
79	0.9	-0.9	-0.6	0.6
80	0.9	-0.9	-0.6	0.6
81	0.9	-0.9	-0.6	0.6
82	0.8	-0.8	-0.6	0.6
83	0.8	-0.8	-0.5	0.5
84	0.8	-0.8	-0.5	0.5
85	0.8	-0.8	-0.5	0.5
86	0.8	-0.8	-0.5	0.5
87	0.7	-0.7	-0.5	0.5
88	0.7	-0.7	-0.5	0.5
89	0.7	-0.7	-0.5	0.5
90	0.7	-0.7	-0.4	0.4
91	0.7	-0.7	-0.4	0.4
92	0.7	-0.7	-0.4	0.4
93	0.7	-0.7	-0.4	0.4
94	0.6	-0.6	-0.4	0.4
95	0.6	-0.6	-0.4	0.4
96	0.6	-0.6	-0.4	0.4
97	0.6	-0.6	-0.4	0.4
98	0.6	-0.6	-0.4	0.4
99	0.6	-0.6	-0.4	0.4

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Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
100	0.6	-0.6	-0.4	0.4
101	0.6	-0.6	-0.3	0.3
102	0.6	-0.6	-0.3	0.3
103	0.5	-0.5	-0.3	0.3
104	0.5	-0.5	-0.3	0.3
105	0.5	-0.5	-0.3	0.3
106	0.5	-0.5	-0.3	0.3
107	0.5	-0.5	-0.3	0.3
108	0.5	-0.5	-0.3	0.3
109	0.5	-0.5	-0.3	0.3
110	0.5	-0.5	-0.3	0.3
111	0.5	-0.5	-0.3	0.3
112	0.5	-0.5	-0.3	0.3
113	0.5	-0.5	-0.3	0.3
114	0.4	-0.4	-0.3	0.3
115	0.4	-0.4	-0.3	0.3
116	0.4	-0.4	-0.3	0.3
117	0.4	-0.4	-0.3	0.3
118	0.4	-0.4	-0.2	0.2
119	0.4	-0.4	-0.2	0.2
120	0.4	-0.4	-0.2	0.2
121	0.4	-0.4	-0.2	0.2
122	0.4	-0.4	-0.2	0.2
123	0.4	-0.4	-0.2	0.2
124	0.4	-0.4	-0.2	0.2
125	0.4	-0.4	-0.2	0.2
126	0.4	-0.4	-0.2	0.2
127	0.4	-0.4	-0.2	0.2
128	0.4	-0.4	-0.2	0.2
129	0.4	-0.4	-0.2	0.2
130	0.3	-0.3	-0.2	0.2
131	0.3	-0.3	-0.2	0.2
132	0.3	-0.3	-0.2	0.2
133	0.3	-0.3	-0.2	0.2
134	0.3	-0.3	-0.2	0.2
135	0.3	-0.3	-0.2	0.2
136	0.3	-0.3	-0.2	0.2
137	0.3	-0.3	-0.2	0.2
138	0.3	-0.3	-0.2	0.2
139	0.3	-0.3	-0.2	0.2
140	0.3	-0.3	-0.2	0.2
141	0.3	-0.3	-0.2	0.2
142	0.3	-0.3	-0.2	0.2
143	0.3	-0.3	-0.2	0.2

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Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
144	0.3	-0.3	-0.2	0.2
145	0.3	-0.3	-0.2	0.2
146	0.3	-0.3	-0.2	0.2
147	0.3	-0.3	-0.2	0.2
148	0.3	-0.3	-0.2	0.2
149	0.3	-0.3	-0.1	0.1
150	0.3	-0.3	-0.1	0.1
151	0.3	-0.3	-0.1	0.1
152	0.3	-0.3	-0.1	0.1
153	0.3	-0.3	-0.1	0.1
154	0.2	-0.2	-0.1	0.1
155	0.2	-0.2	-0.1	0.1
156	0.2	-0.2	-0.1	0.1
157	0.2	-0.2	-0.1	0.1
158	0.2	-0.2	-0.1	0.1
159	0.2	-0.2	-0.1	0.1
160	0.2	-0.2	-0.1	0.1
161	0.2	-0.2	-0.1	0.1
162	0.2	-0.2	-0.1	0.1
163	0.2	-0.2	-0.1	0.1
164	0.2	-0.2	-0.1	0.1
165	0.2	-0.2	-0.1	0.1
166	0.2	-0.2	-0.1	0.1
167	0.2	-0.2	-0.1	0.1
168	0.2	-0.2	-0.1	0.1
169	0.2	-0.2	-0.1	0.1
170	0.2	-0.2	-0.1	0.1
171	0.2	-0.2	-0.1	0.1
172	0.2	-0.2	-0.1	0.1
173	0.2	-0.2	-0.1	0.1
174	0.2	-0.2	-0.1	0.1
175	0.2	-0.2	-0.1	0.1
176	0.2	-0.2	-0.1	0.1
177	0.2	-0.2	-0.1	0.1
178	0.2	-0.2	-0.1	0.1
179	0.2	-0.2	-0.1	0.1
180	0.2	-0.2	-0.1	0.1
181	0.2	-0.2	-0.1	0.1
182	0.2	-0.2	-0.1	0.1
183	0.2	-0.2	-0.1	0.1
184	0.2	-0.2	-0.1	0.1
185	0.2	-0.2	-0.1	0.1
186	0.2	-0.2	-0.1	0.1
187	0.2	-0.2	-0.1	0.1

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Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
188	0.2	-0.2	-0.1	0.1
189	0.2	-0.2	-0.1	0.1
190	0.2	-0.2	-0.1	0.1
191	0.2	-0.2	-0.1	0.1
192	0.2	-0.2	-0.1	0.1
193	0.2	-0.2	-0.1	0.1
194	0.2	-0.2	-0.1	0.1
195	0.2	-0.2	-0.1	0.1
196	0.2	-0.2	-0.1	0.1
197	0.2	-0.2	-0.1	0.1
198	0.2	-0.2	-0.1	0.1
199	0.2	-0.2	-0.1	0.1
200	0.1	-0.1	-0.1	0.1
201	0.1	-0.1	-0.1	0.1
202	0.1	-0.1	-0.1	0.1
203	0.1	-0.1	-0.1	0.1
204	0.1	-0.1	-0.1	0.1
205	0.1	-0.1	-0.1	0.1
206	0.1	-0.1	-0.1	0.1
207	0.1	-0.1	-0.1	0.1
208	0.1	-0.1	-0.1	0.1
209	0.1	-0.1	-0.1	0.1
210	0.1	-0.1	-0.1	0.1
211	0.1	-0.1	-0.1	0.1
212	0.1	-0.1	-0.1	0.1
213	0.1	-0.1	-0.1	0.1
214	0.1	-0.1	-0.1	0.1
215	0.1	-0.1	-0.1	0.1
216	0.1	-0.1	-0.1	0.1
217	0.1	-0.1	-0.1	0.1
218	0.1	-0.1	-0.1	0.1
219	0.1	-0.1	-0.1	0.1
220	0.1	-0.1	-0.1	0.1
221	0.1	-0.1	-0.1	0.1
222	0.1	-0.1	-0.1	0.1
223	0.1	-0.1	-0.1	0.1
224	0.1	-0.1	-0.1	0.1
225	0.1	-0.1	-0.1	0.1
226	0.1	-0.1	-0.1	0.1
227	0.1	-0.1	-0.1	0.1
228	0.1	-0.1	-0.1	0.1
229	0.1	-0.1	-0.1	0.1
230	0.1	-0.1	-0.1	0.1
231	0.1	-0.1	-0.1	0.1

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Table E-3 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
232	0.1	-0.1	-0.1	0.1
233	0.1	-0.1	-0.1	0.1
234	0.1	-0.1	-0.1	0.1
235	0.1	-0.1	-0.1	0.1
236	0.1	-0.1	-0.1	0.1
237	0.1	-0.1	-0.1	0.1
238	0.1	-0.1	-0.1	0.1
239	0.1	-0.1	-0.1	0.1
240	0.1	-0.1	-0.1	0.1
241	0.1	-0.1	-0.1	0.1
242	0.1	-0.1	-0.1	0.1
243	0.1	-0.1	-0.1	0.1
244	0.1	-0.1	-0.1	0.1
245	0.1	-0.1	-0.1	0.1
246	0.1	-0.1	-0.1	0.1
247	0.1	-0.1	-0.1	0.1
248	0.1	-0.1	0	0
249	0.1	-0.1	0	0
250	0.1	-0.1	0	0

Table E-4. Calculated differences between the Earths DC magnetic field and the DC magnetic field around the SRWEC–NYS for cables oriented 356° north of east with different configurations

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-250	0.1	-0.1	0	0
-249	0.1	-0.1	0	0
-248	0.1	-0.1	0	0
-247	0.1	-0.1	0	0
-246	0.1	-0.1	0	0
-245	0.1	-0.1	0	0
-244	0.1	-0.1	0	0
-243	0.1	-0.1	0	0
-242	0.1	-0.1	0	0
-241	0.1	-0.1	0	0
-240	0.1	-0.1	0	0
-239	0.1	-0.1	0	0
-238	0.1	-0.1	0	0
-237	0.1	-0.1	0	0
-236	0.1	-0.1	0	0
-235	0.1	-0.1	0	0
-234	0.1	-0.1	0	0
-233	0.1	-0.1	0	0
-232	0.1	-0.1	0	0
-231	0.1	-0.1	0	0
-230	0.1	-0.1	0	0
-229	0.1	-0.1	0	0
-228	0.1	-0.1	0	0
-227	0.1	-0.1	0	0
-226	0.1	-0.1	0	0
-225	0.1	-0.1	0	0
-224	0.1	-0.1	0	0
-223	0.1	-0.1	0	0
-222	0.1	-0.1	0	0
-221	0.1	-0.1	0	0
-220	0.1	-0.1	0	0
-219	0.1	-0.1	0	0
-218	0.1	-0.1	0	0
-217	0.1	-0.1	0	0
-216	0.1	-0.1	0	0
-215	0.1	-0.1	0	0
-214	0.1	-0.1	0	0
-213	0.1	-0.1	-0.1	0.1
-212	0.1	-0.1	-0.1	0.1
-211	0.1	-0.1	-0.1	0.1
-210	0.1	-0.1	-0.1	0.1
-209	0.1	-0.1	-0.1	0.1

Continued on next page

Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-208	0.1	-0.1	-0.1	0.1
-207	0.1	-0.1	-0.1	0.1
-206	0.1	-0.1	-0.1	0.1
-205	0.2	-0.2	-0.1	0.1
-204	0.2	-0.2	-0.1	0.1
-203	0.2	-0.2	-0.1	0.1
-202	0.2	-0.2	-0.1	0.1
-201	0.2	-0.2	-0.1	0.1
-200	0.2	-0.2	-0.1	0.1
-199	0.2	-0.2	-0.1	0.1
-198	0.2	-0.2	-0.1	0.1
-197	0.2	-0.2	-0.1	0.1
-196	0.2	-0.2	-0.1	0.1
-195	0.2	-0.2	-0.1	0.1
-194	0.2	-0.2	-0.1	0.1
-193	0.2	-0.2	-0.1	0.1
-192	0.2	-0.2	-0.1	0.1
-191	0.2	-0.2	-0.1	0.1
-190	0.2	-0.2	-0.1	0.1
-189	0.2	-0.2	-0.1	0.1
-188	0.2	-0.2	-0.1	0.1
-187	0.2	-0.2	-0.1	0.1
-186	0.2	-0.2	-0.1	0.1
-185	0.2	-0.2	-0.1	0.1
-184	0.2	-0.2	-0.1	0.1
-183	0.2	-0.2	-0.1	0.1
-182	0.2	-0.2	-0.1	0.1
-181	0.2	-0.2	-0.1	0.1
-180	0.2	-0.2	-0.1	0.1
-179	0.2	-0.2	-0.1	0.1
-178	0.2	-0.2	-0.1	0.1
-177	0.2	-0.2	-0.1	0.1
-176	0.2	-0.2	-0.1	0.1
-175	0.2	-0.2	-0.1	0.1
-174	0.2	-0.2	-0.1	0.1
-173	0.2	-0.2	-0.1	0.1
-172	0.2	-0.2	-0.1	0.1
-171	0.2	-0.2	-0.1	0.1
-170	0.2	-0.2	-0.1	0.1
-169	0.2	-0.2	-0.1	0.1
-168	0.2	-0.2	-0.1	0.1
-167	0.2	-0.2	-0.1	0.1
-166	0.2	-0.2	-0.1	0.1
-165	0.2	-0.2	-0.1	0.1

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Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-164	0.2	-0.2	-0.1	0.1
-163	0.2	-0.2	-0.1	0.1
-162	0.2	-0.2	-0.1	0.1
-161	0.2	-0.2	-0.1	0.1
-160	0.2	-0.2	-0.1	0.1
-159	0.3	-0.3	-0.1	0.1
-158	0.3	-0.3	-0.1	0.1
-157	0.3	-0.3	-0.1	0.1
-156	0.3	-0.3	-0.1	0.1
-155	0.3	-0.3	-0.1	0.1
-154	0.3	-0.3	-0.1	0.1
-153	0.3	-0.3	-0.1	0.1
-152	0.3	-0.3	-0.1	0.1
-151	0.3	-0.3	-0.1	0.1
-150	0.3	-0.3	-0.1	0.1
-149	0.3	-0.3	-0.1	0.1
-148	0.3	-0.3	-0.1	0.1
-147	0.3	-0.3	-0.1	0.1
-146	0.3	-0.3	-0.1	0.1
-145	0.3	-0.3	-0.1	0.1
-144	0.3	-0.3	-0.1	0.1
-143	0.3	-0.3	-0.1	0.1
-142	0.3	-0.3	-0.1	0.1
-141	0.3	-0.3	-0.1	0.1
-140	0.3	-0.3	-0.1	0.1
-139	0.3	-0.3	-0.1	0.1
-138	0.3	-0.3	-0.1	0.1
-137	0.3	-0.3	-0.1	0.1
-136	0.3	-0.3	-0.1	0.1
-135	0.4	-0.4	-0.1	0.1
-134	0.4	-0.4	-0.1	0.1
-133	0.4	-0.4	-0.1	0.1
-132	0.4	-0.4	-0.1	0.1
-131	0.4	-0.4	-0.1	0.1
-130	0.4	-0.4	-0.1	0.1
-129	0.4	-0.4	-0.1	0.1
-128	0.4	-0.4	-0.1	0.1
-127	0.4	-0.4	-0.1	0.1
-126	0.4	-0.4	-0.1	0.1
-125	0.4	-0.4	-0.1	0.1
-124	0.4	-0.4	-0.1	0.1
-123	0.4	-0.4	-0.1	0.1
-122	0.4	-0.4	-0.1	0.1
-121	0.4	-0.4	-0.1	0.1

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Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-120	0.4	-0.4	-0.1	0.1
-119	0.5	-0.5	-0.1	0.1
-118	0.5	-0.5	-0.1	0.1
-117	0.5	-0.5	-0.1	0.1
-116	0.5	-0.5	-0.1	0.1
-115	0.5	-0.5	-0.1	0.1
-114	0.5	-0.5	-0.1	0.1
-113	0.5	-0.5	-0.1	0.1
-112	0.5	-0.5	-0.2	0.2
-111	0.5	-0.5	-0.2	0.2
-110	0.5	-0.5	-0.2	0.2
-109	0.5	-0.5	-0.2	0.2
-108	0.6	-0.6	-0.2	0.2
-107	0.6	-0.6	-0.2	0.2
-106	0.6	-0.6	-0.2	0.2
-105	0.6	-0.6	-0.2	0.2
-104	0.6	-0.6	-0.2	0.2
-103	0.6	-0.6	-0.2	0.2
-102	0.6	-0.6	-0.2	0.2
-101	0.6	-0.6	-0.2	0.2
-100	0.6	-0.6	-0.2	0.2
-99	0.7	-0.7	-0.2	0.2
-98	0.7	-0.7	-0.2	0.2
-97	0.7	-0.7	-0.2	0.2
-96	0.7	-0.7	-0.2	0.2
-95	0.7	-0.7	-0.2	0.2
-94	0.7	-0.7	-0.2	0.2
-93	0.7	-0.7	-0.2	0.2
-92	0.8	-0.8	-0.2	0.2
-91	0.8	-0.8	-0.2	0.2
-90	0.8	-0.8	-0.2	0.2
-89	0.8	-0.8	-0.2	0.2
-88	0.8	-0.8	-0.2	0.2
-87	0.9	-0.9	-0.2	0.2
-86	0.9	-0.9	-0.2	0.2
-85	0.9	-0.9	-0.2	0.2
-84	0.9	-0.9	-0.2	0.2
-83	0.9	-0.9	-0.2	0.2
-82	1.0	-1.0	-0.2	0.2
-81	1.0	-1.0	-0.2	0.2
-80	1.0	-1.0	-0.2	0.2
-79	1.0	-1.0	-0.2	0.3
-78	1.1	-1.1	-0.3	0.3
-77	1.1	-1.1	-0.3	0.3

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Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-76	1.1	-1.1	-0.3	0.3
-75	1.2	-1.2	-0.3	0.3
-74	1.2	-1.2	-0.3	0.3
-73	1.2	-1.2	-0.3	0.3
-72	1.3	-1.3	-0.3	0.3
-71	1.3	-1.3	-0.3	0.3
-70	1.3	-1.3	-0.3	0.3
-69	1.4	-1.4	-0.3	0.3
-68	1.4	-1.4	-0.3	0.3
-67	1.5	-1.5	-0.3	0.3
-66	1.5	-1.5	-0.3	0.3
-65	1.5	-1.5	-0.3	0.3
-64	1.6	-1.6	-0.3	0.3
-63	1.6	-1.6	-0.3	0.3
-62	1.7	-1.7	-0.3	0.3
-61	1.8	-1.8	-0.3	0.3
-60	1.8	-1.8	-0.3	0.3
-59	1.9	-1.9	-0.3	0.3
-58	1.9	-1.9	-0.3	0.3
-57	2.0	-2.0	-0.3	0.3
-56	2.1	-2.1	-0.3	0.3
-55	2.2	-2.2	-0.3	0.3
-54	2.2	-2.2	-0.3	0.4
-53	2.3	-2.3	-0.3	0.4
-52	2.4	-2.4	-0.3	0.4
-51	2.5	-2.5	-0.3	0.4
-50	2.6	-2.6	-0.3	0.4
-49	2.7	-2.7	-0.3	0.4
-48	2.8	-2.8	-0.3	0.4
-47	3.0	-3.0	-0.3	0.4
-46	3.1	-3.1	-0.3	0.3
-45	3.2	-3.2	-0.3	0.3
-44	3.4	-3.4	-0.3	0.3
-43	3.5	-3.5	-0.3	0.3
-42	3.7	-3.7	-0.3	0.3
-41	3.9	-3.9	-0.3	0.3
-40	4.1	-4.1	-0.2	0.3
-39	4.3	-4.3	-0.2	0.3
-38	4.5	-4.5	-0.2	0.2
-37	4.8	-4.8	-0.1	0.2
-36	5.0	-5.0	-0.1	0.2
-35	5.3	-5.3	-0.1	0.1
-34	5.6	-5.6	0	0.1
-33	5.9	-5.9	0.1	0

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Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-32	6.3	-6.3	0.2	-0.1
-31	6.7	-6.7	0.3	-0.2
-30	7.1	-7.1	0.4	-0.3
-29	7.6	-7.6	0.5	-0.4
-28	8.1	-8.1	0.7	-0.6
-27	8.7	-8.7	0.9	-0.8
-26	9.3	-9.3	1.2	-1.0
-25	10.0	-10.0	1.5	-1.3
-24	10.7	-10.7	1.8	-1.6
-23	11.6	-11.6	2.2	-2.0
-22	12.5	-12.5	2.8	-2.5
-21	13.5	-13.5	3.4	-3.0
-20	14.7	-14.6	4.1	-3.7
-19	15.9	-15.9	5.1	-4.6
-18	17.4	-17.3	6.2	-5.6
-17	18.9	-18.8	7.6	-6.9
-16	20.7	-20.5	9.3	-8.5
-15	22.6	-22.4	11.5	-10.5
-14	24.7	-24.3	14.2	-13.0
-13	26.9	-26.4	17.6	-16.2
-12	29.2	-28.4	21.8	-20.2
-11	31.6	-30.2	27.1	-25.3
-10	33.7	-31.5	33.7	-31.7
-9	35.2	-31.8	41.8	-39.8
-8	35.6	-30.3	51.7	-49.8
-7	34.0	-25.7	63.4	-61.8
-6	29.0	-16.6	76.5	-75.6
-5	18.8	-1.2	90.1	-89.7
-4	1.3	21.7	102.0	-101.4
-3	-25.0	51.6	109.2	-105.5
-2	-59.7	85.0	107.7	-96.7
-1	-97.5	115.5	94.1	-72.6
0	-128.1	136.0	68.3	-37.3
1	-140.3	141.7	33.9	0.5
2	-131.1	132.7	-1.8	32.4
3	-107.9	113.5	-31.7	54.3
4	-80.8	89.8	-51.7	65.9
5	-56.2	66.6	-61.6	69.5
6	-36.6	46.6	-63.9	67.7
7	-22.0	30.7	-61.4	63.1
8	-11.6	18.7	-56.5	57.1
9	-4.4	10.0	-50.7	50.9
10	0.4	3.8	-44.8	44.9
11	3.6	-0.4	-39.4	39.5

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Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
12	5.7	-3.2	-34.6	34.7
13	7.0	-5.1	-30.3	30.4
14	7.7	-6.2	-26.7	26.8
15	8.0	-6.9	-23.5	23.6
16	8.2	-7.3	-20.8	20.9
17	8.1	-7.4	-18.5	18.6
18	7.9	-7.4	-16.5	16.6
19	7.7	-7.3	-14.7	14.8
20	7.4	-7.1	-13.2	13.3
21	7.1	-6.9	-11.9	12.0
22	6.8	-6.6	-10.8	10.9
23	6.5	-6.3	-9.8	9.9
24	6.2	-6.1	-8.9	9.0
25	6.0	-5.8	-8.2	8.2
26	5.7	-5.6	-7.5	7.5
27	5.4	-5.3	-6.9	6.9
28	5.2	-5.1	-6.3	6.4
29	4.9	-4.8	-5.9	5.9
30	4.7	-4.6	-5.4	5.5
31	4.5	-4.4	-5.0	5.1
32	4.3	-4.2	-4.7	4.7
33	4.1	-4.0	-4.4	4.4
34	3.9	-3.9	-4.1	4.1
35	3.7	-3.7	-3.8	3.8
36	3.6	-3.5	-3.6	3.6
37	3.4	-3.4	-3.4	3.4
38	3.3	-3.2	-3.2	3.2
39	3.1	-3.1	-3.0	3.0
40	3.0	-3.0	-2.8	2.8
41	2.9	-2.9	-2.7	2.7
42	2.8	-2.8	-2.5	2.5
43	2.7	-2.7	-2.4	2.4
44	2.6	-2.6	-2.3	2.3
45	2.5	-2.5	-2.1	2.2
46	2.4	-2.4	-2.0	2.0
47	2.3	-2.3	-1.9	2.0
48	2.2	-2.2	-1.8	1.9
49	2.1	-2.1	-1.8	1.8
50	2.1	-2.0	-1.7	1.7
51	2.0	-2.0	-1.6	1.6
52	1.9	-1.9	-1.5	1.5
53	1.9	-1.9	-1.5	1.5
54	1.8	-1.8	-1.4	1.4
55	1.7	-1.7	-1.4	1.4

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Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
56	1.7	-1.7	-1.3	1.3
57	1.6	-1.6	-1.2	1.3
58	1.6	-1.6	-1.2	1.2
59	1.5	-1.5	-1.2	1.2
60	1.5	-1.5	-1.1	1.1
61	1.4	-1.4	-1.1	1.1
62	1.4	-1.4	-1.0	1.0
63	1.4	-1.4	-1.0	1.0
64	1.3	-1.3	-1.0	1.0
65	1.3	-1.3	-0.9	0.9
66	1.2	-1.2	-0.9	0.9
67	1.2	-1.2	-0.9	0.9
68	1.2	-1.2	-0.8	0.8
69	1.2	-1.1	-0.8	0.8
70	1.1	-1.1	-0.8	0.8
71	1.1	-1.1	-0.8	0.8
72	1.1	-1.1	-0.7	0.7
73	1.0	-1.0	-0.7	0.7
74	1.0	-1.0	-0.7	0.7
75	1.0	-1.0	-0.7	0.7
76	1.0	-1.0	-0.6	0.7
77	0.9	-0.9	-0.6	0.6
78	0.9	-0.9	-0.6	0.6
79	0.9	-0.9	-0.6	0.6
80	0.9	-0.9	-0.6	0.6
81	0.9	-0.9	-0.6	0.6
82	0.8	-0.8	-0.5	0.5
83	0.8	-0.8	-0.5	0.5
84	0.8	-0.8	-0.5	0.5
85	0.8	-0.8	-0.5	0.5
86	0.8	-0.8	-0.5	0.5
87	0.7	-0.7	-0.5	0.5
88	0.7	-0.7	-0.5	0.5
89	0.7	-0.7	-0.5	0.5
90	0.7	-0.7	-0.4	0.4
91	0.7	-0.7	-0.4	0.4
92	0.7	-0.7	-0.4	0.4
93	0.7	-0.7	-0.4	0.4
94	0.6	-0.6	-0.4	0.4
95	0.6	-0.6	-0.4	0.4
96	0.6	-0.6	-0.4	0.4
97	0.6	-0.6	-0.4	0.4
98	0.6	-0.6	-0.4	0.4
99	0.6	-0.6	-0.4	0.4

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Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
100	0.6	-0.6	-0.4	0.4
101	0.6	-0.6	-0.3	0.3
102	0.6	-0.6	-0.3	0.3
103	0.5	-0.5	-0.3	0.3
104	0.5	-0.5	-0.3	0.3
105	0.5	-0.5	-0.3	0.3
106	0.5	-0.5	-0.3	0.3
107	0.5	-0.5	-0.3	0.3
108	0.5	-0.5	-0.3	0.3
109	0.5	-0.5	-0.3	0.3
110	0.5	-0.5	-0.3	0.3
111	0.5	-0.5	-0.3	0.3
112	0.5	-0.5	-0.3	0.3
113	0.5	-0.5	-0.3	0.3
114	0.4	-0.4	-0.3	0.3
115	0.4	-0.4	-0.3	0.3
116	0.4	-0.4	-0.3	0.3
117	0.4	-0.4	-0.2	0.2
118	0.4	-0.4	-0.2	0.2
119	0.4	-0.4	-0.2	0.2
120	0.4	-0.4	-0.2	0.2
121	0.4	-0.4	-0.2	0.2
122	0.4	-0.4	-0.2	0.2
123	0.4	-0.4	-0.2	0.2
124	0.4	-0.4	-0.2	0.2
125	0.4	-0.4	-0.2	0.2
126	0.4	-0.4	-0.2	0.2
127	0.4	-0.4	-0.2	0.2
128	0.4	-0.4	-0.2	0.2
129	0.4	-0.4	-0.2	0.2
130	0.3	-0.3	-0.2	0.2
131	0.3	-0.3	-0.2	0.2
132	0.3	-0.3	-0.2	0.2
133	0.3	-0.3	-0.2	0.2
134	0.3	-0.3	-0.2	0.2
135	0.3	-0.3	-0.2	0.2
136	0.3	-0.3	-0.2	0.2
137	0.3	-0.3	-0.2	0.2
138	0.3	-0.3	-0.2	0.2
139	0.3	-0.3	-0.2	0.2
140	0.3	-0.3	-0.2	0.2
141	0.3	-0.3	-0.2	0.2
142	0.3	-0.3	-0.2	0.2
143	0.3	-0.3	-0.2	0.2

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Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
144	0.3	-0.3	-0.2	0.2
145	0.3	-0.3	-0.2	0.2
146	0.3	-0.3	-0.2	0.2
147	0.3	-0.3	-0.2	0.2
148	0.3	-0.3	-0.1	0.1
149	0.3	-0.3	-0.1	0.1
150	0.3	-0.3	-0.1	0.1
151	0.3	-0.3	-0.1	0.1
152	0.3	-0.3	-0.1	0.1
153	0.3	-0.3	-0.1	0.1
154	0.2	-0.2	-0.1	0.1
155	0.2	-0.2	-0.1	0.1
156	0.2	-0.2	-0.1	0.1
157	0.2	-0.2	-0.1	0.1
158	0.2	-0.2	-0.1	0.1
159	0.2	-0.2	-0.1	0.1
160	0.2	-0.2	-0.1	0.1
161	0.2	-0.2	-0.1	0.1
162	0.2	-0.2	-0.1	0.1
163	0.2	-0.2	-0.1	0.1
164	0.2	-0.2	-0.1	0.1
165	0.2	-0.2	-0.1	0.1
166	0.2	-0.2	-0.1	0.1
167	0.2	-0.2	-0.1	0.1
168	0.2	-0.2	-0.1	0.1
169	0.2	-0.2	-0.1	0.1
170	0.2	-0.2	-0.1	0.1
171	0.2	-0.2	-0.1	0.1
172	0.2	-0.2	-0.1	0.1
173	0.2	-0.2	-0.1	0.1
174	0.2	-0.2	-0.1	0.1
175	0.2	-0.2	-0.1	0.1
176	0.2	-0.2	-0.1	0.1
177	0.2	-0.2	-0.1	0.1
178	0.2	-0.2	-0.1	0.1
179	0.2	-0.2	-0.1	0.1
180	0.2	-0.2	-0.1	0.1
181	0.2	-0.2	-0.1	0.1
182	0.2	-0.2	-0.1	0.1
183	0.2	-0.2	-0.1	0.1
184	0.2	-0.2	-0.1	0.1
185	0.2	-0.2	-0.1	0.1
186	0.2	-0.2	-0.1	0.1
187	0.2	-0.2	-0.1	0.1

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Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
188	0.2	-0.2	-0.1	0.1
189	0.2	-0.2	-0.1	0.1
190	0.2	-0.2	-0.1	0.1
191	0.2	-0.2	-0.1	0.1
192	0.2	-0.2	-0.1	0.1
193	0.2	-0.2	-0.1	0.1
194	0.2	-0.2	-0.1	0.1
195	0.2	-0.2	-0.1	0.1
196	0.2	-0.2	-0.1	0.1
197	0.2	-0.2	-0.1	0.1
198	0.2	-0.2	-0.1	0.1
199	0.2	-0.2	-0.1	0.1
200	0.1	-0.1	-0.1	0.1
201	0.1	-0.1	-0.1	0.1
202	0.1	-0.1	-0.1	0.1
203	0.1	-0.1	-0.1	0.1
204	0.1	-0.1	-0.1	0.1
205	0.1	-0.1	-0.1	0.1
206	0.1	-0.1	-0.1	0.1
207	0.1	-0.1	-0.1	0.1
208	0.1	-0.1	-0.1	0.1
209	0.1	-0.1	-0.1	0.1
210	0.1	-0.1	-0.1	0.1
211	0.1	-0.1	-0.1	0.1
212	0.1	-0.1	-0.1	0.1
213	0.1	-0.1	-0.1	0.1
214	0.1	-0.1	-0.1	0.1
215	0.1	-0.1	-0.1	0.1
216	0.1	-0.1	-0.1	0.1
217	0.1	-0.1	-0.1	0.1
218	0.1	-0.1	-0.1	0.1
219	0.1	-0.1	-0.1	0.1
220	0.1	-0.1	-0.1	0.1
221	0.1	-0.1	-0.1	0.1
222	0.1	-0.1	-0.1	0.1
223	0.1	-0.1	-0.1	0.1
224	0.1	-0.1	-0.1	0.1
225	0.1	-0.1	-0.1	0.1
226	0.1	-0.1	-0.1	0.1
227	0.1	-0.1	-0.1	0.1
228	0.1	-0.1	-0.1	0.1
229	0.1	-0.1	-0.1	0.1
230	0.1	-0.1	-0.1	0.1
231	0.1	-0.1	-0.1	0.1

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Table E-4 – Continued from previous page

Dist (feet)	SRWEC–NYS (+ on left)	SRWEC–NYS (+ on right)	SRWEC–NYS (+ on top)	SRWEC–NYS (+ on bottom)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
232	0.1	-0.1	-0.1	0.1
233	0.1	-0.1	-0.1	0.1
234	0.1	-0.1	-0.1	0.1
235	0.1	-0.1	-0.1	0.1
236	0.1	-0.1	-0.1	0.1
237	0.1	-0.1	-0.1	0.1
238	0.1	-0.1	-0.1	0.1
239	0.1	-0.1	-0.1	0.1
240	0.1	-0.1	-0.1	0.1
241	0.1	-0.1	-0.1	0.1
242	0.1	-0.1	-0.1	0.1
243	0.1	-0.1	-0.1	0.1
244	0.1	-0.1	-0.1	0.1
245	0.1	-0.1	-0.1	0.1
246	0.1	-0.1	-0.1	0.1
247	0.1	-0.1	0	0
248	0.1	-0.1	0	0
249	0.1	-0.1	0	0
250	0.1	-0.1	0	0

Table E-5. Calculated differences between the Earth's DC magnetic field and the DC magnetic field around the Onshore Transmission Cable for north-south cable orientation (90° north of east) for duct bank and direct bury configurations

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-250	0.3	-0.3	0.5	-0.5
-249	0.3	-0.3	0.5	-0.5
-248	0.3	-0.3	0.5	-0.5
-247	0.3	-0.3	0.5	-0.5
-246	0.3	-0.3	0.5	-0.5
-245	0.3	-0.3	0.5	-0.5
-244	0.3	-0.3	0.5	-0.5
-243	0.3	-0.3	0.5	-0.5
-242	0.3	-0.3	0.5	-0.5
-241	0.3	-0.3	0.5	-0.5
-240	0.4	-0.4	0.5	-0.5
-239	0.4	-0.4	0.5	-0.5
-238	0.4	-0.4	0.5	-0.5
-237	0.4	-0.4	0.5	-0.5
-236	0.4	-0.4	0.5	-0.5
-235	0.4	-0.4	0.5	-0.5
-234	0.4	-0.4	0.5	-0.5
-233	0.4	-0.4	0.5	-0.5
-232	0.4	-0.4	0.5	-0.5
-231	0.4	-0.4	0.5	-0.5
-230	0.4	-0.4	0.6	-0.6
-229	0.4	-0.4	0.6	-0.6
-228	0.4	-0.4	0.6	-0.6
-227	0.4	-0.4	0.6	-0.6
-226	0.4	-0.4	0.6	-0.6
-225	0.4	-0.4	0.6	-0.6
-224	0.4	-0.4	0.6	-0.6
-223	0.4	-0.4	0.6	-0.6
-222	0.4	-0.4	0.6	-0.6
-221	0.4	-0.4	0.6	-0.6
-220	0.4	-0.4	0.6	-0.6
-219	0.4	-0.4	0.6	-0.6
-218	0.4	-0.4	0.6	-0.6
-217	0.4	-0.4	0.6	-0.6
-216	0.4	-0.4	0.6	-0.6
-215	0.4	-0.4	0.6	-0.6
-214	0.4	-0.4	0.6	-0.6
-213	0.4	-0.4	0.6	-0.6
-212	0.5	-0.5	0.6	-0.6
-211	0.5	-0.5	0.7	-0.7
-210	0.5	-0.5	0.7	-0.7

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Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-209	0.5		-0.5		0.7		-0.7	
-208	0.5		-0.5		0.7		-0.7	
-207	0.5		-0.5		0.7		-0.7	
-206	0.5		-0.5		0.7		-0.7	
-205	0.5		-0.5		0.7		-0.7	
-204	0.5		-0.5		0.7		-0.7	
-203	0.5		-0.5		0.7		-0.7	
-202	0.5		-0.5		0.7		-0.7	
-201	0.5		-0.5		0.7		-0.7	
-200	0.5		-0.5		0.7		-0.7	
-199	0.5		-0.5		0.7		-0.7	
-198	0.5		-0.5		0.7		-0.7	
-197	0.5		-0.5		0.7		-0.7	
-196	0.5		-0.5		0.8		-0.8	
-195	0.5		-0.5		0.8		-0.8	
-194	0.5		-0.5		0.8		-0.8	
-193	0.5		-0.5		0.8		-0.8	
-192	0.5		-0.5		0.8		-0.8	
-191	0.6		-0.6		0.8		-0.8	
-190	0.6		-0.6		0.8		-0.8	
-189	0.6		-0.6		0.8		-0.8	
-188	0.6		-0.6		0.8		-0.8	
-187	0.6		-0.6		0.8		-0.8	
-186	0.6		-0.6		0.8		-0.8	
-185	0.6		-0.6		0.8		-0.8	
-184	0.6		-0.6		0.9		-0.9	
-183	0.6		-0.6		0.9		-0.9	
-182	0.6		-0.6		0.9		-0.9	
-181	0.6		-0.6		0.9		-0.9	
-180	0.6		-0.6		0.9		-0.9	
-179	0.6		-0.6		0.9		-0.9	
-178	0.6		-0.6		0.9		-0.9	
-177	0.6		-0.6		0.9		-0.9	
-176	0.7		-0.7		0.9		-0.9	
-175	0.7		-0.7		0.9		-0.9	
-174	0.7		-0.7		1.0		-1.0	
-173	0.7		-0.7		1.0		-1.0	
-172	0.7		-0.7		1.0		-1.0	
-171	0.7		-0.7		1.0		-1.0	
-170	0.7		-0.7		1.0		-1.0	
-169	0.7		-0.7		1.0		-1.0	
-168	0.7		-0.7		1.0		-1.0	
-167	0.7		-0.7		1.0		-1.0	
-166	0.7		-0.7		1.0		-1.0	

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Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-165	0.7		-0.7		1.1		-1.1	
-164	0.8		-0.8		1.1		-1.1	
-163	0.8		-0.8		1.1		-1.1	
-162	0.8		-0.8		1.1		-1.1	
-161	0.8		-0.8		1.1		-1.1	
-160	0.8		-0.8		1.1		-1.1	
-159	0.8		-0.8		1.1		-1.1	
-158	0.8		-0.8		1.2		-1.2	
-157	0.8		-0.8		1.2		-1.2	
-156	0.8		-0.8		1.2		-1.2	
-155	0.8		-0.8		1.2		-1.2	
-154	0.9		-0.9		1.2		-1.2	
-153	0.9		-0.9		1.2		-1.2	
-152	0.9		-0.9		1.2		-1.2	
-151	0.9		-0.9		1.3		-1.3	
-150	0.9		-0.9		1.3		-1.3	
-149	0.9		-0.9		1.3		-1.3	
-148	0.9		-0.9		1.3		-1.3	
-147	0.9		-0.9		1.3		-1.3	
-146	0.9		-0.9		1.3		-1.3	
-145	1.0		-1.0		1.4		-1.4	
-144	1.0		-1.0		1.4		-1.4	
-143	1.0		-1.0		1.4		-1.4	
-142	1.0		-1.0		1.4		-1.4	
-141	1.0		-1.0		1.4		-1.4	
-140	1.0		-1.0		1.5		-1.5	
-139	1.0		-1.0		1.5		-1.5	
-138	1.1		-1.1		1.5		-1.5	
-137	1.1		-1.1		1.5		-1.5	
-136	1.1		-1.1		1.5		-1.5	
-135	1.1		-1.1		1.6		-1.6	
-134	1.1		-1.1		1.6		-1.6	
-133	1.1		-1.1		1.6		-1.6	
-132	1.2		-1.2		1.6		-1.6	
-131	1.2		-1.2		1.6		-1.6	
-130	1.2		-1.2		1.7		-1.7	
-129	1.2		-1.2		1.7		-1.7	
-128	1.2		-1.2		1.7		-1.7	
-127	1.3		-1.3		1.7		-1.7	
-126	1.3		-1.3		1.8		-1.8	
-125	1.3		-1.3		1.8		-1.8	
-124	1.3		-1.3		1.8		-1.8	
-123	1.3		-1.3		1.9		-1.9	
-122	1.4		-1.4		1.9		-1.9	

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Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-121	1.4	-1.4	1.9	-1.9
-120	1.4	-1.4	1.9	-1.9
-119	1.4	-1.4	2.0	-2.0
-118	1.5	-1.5	2.0	-2.0
-117	1.5	-1.5	2.0	-2.0
-116	1.5	-1.5	2.1	-2.1
-115	1.5	-1.5	2.1	-2.1
-114	1.6	-1.6	2.1	-2.1
-113	1.6	-1.6	2.2	-2.2
-112	1.6	-1.6	2.2	-2.2
-111	1.6	-1.6	2.3	-2.2
-110	1.7	-1.7	2.3	-2.3
-109	1.7	-1.7	2.3	-2.3
-108	1.7	-1.7	2.4	-2.4
-107	1.8	-1.8	2.4	-2.4
-106	1.8	-1.8	2.5	-2.4
-105	1.8	-1.8	2.5	-2.5
-104	1.9	-1.9	2.5	-2.5
-103	1.9	-1.9	2.6	-2.6
-102	1.9	-1.9	2.6	-2.6
-101	2.0	-2.0	2.7	-2.7
-100	2.0	-2.0	2.7	-2.7
-99	2.1	-2.1	2.8	-2.8
-98	2.1	-2.1	2.8	-2.8
-97	2.1	-2.1	2.9	-2.9
-96	2.2	-2.2	2.9	-2.9
-95	2.2	-2.2	3.0	-3.0
-94	2.3	-2.3	3.0	-3.0
-93	2.3	-2.3	3.1	-3.1
-92	2.4	-2.4	3.2	-3.2
-91	2.4	-2.4	3.2	-3.2
-90	2.5	-2.5	3.3	-3.3
-89	2.5	-2.5	3.4	-3.4
-88	2.6	-2.6	3.4	-3.4
-87	2.7	-2.7	3.5	-3.5
-86	2.7	-2.7	3.6	-3.6
-85	2.8	-2.8	3.6	-3.6
-84	2.9	-2.8	3.7	-3.7
-83	2.9	-2.9	3.8	-3.8
-82	3.0	-3.0	3.9	-3.9
-81	3.1	-3.1	4.0	-3.9
-80	3.1	-3.1	4.0	-4.0
-79	3.2	-3.2	4.1	-4.1
-78	3.3	-3.3	4.2	-4.2

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Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-77	3.4	-3.4	4.3	-4.3
-76	3.5	-3.5	4.4	-4.4
-75	3.6	-3.6	4.5	-4.5
-74	3.7	-3.7	4.6	-4.6
-73	3.8	-3.8	4.7	-4.7
-72	3.9	-3.9	4.8	-4.8
-71	4.0	-4.0	4.9	-4.9
-70	4.1	-4.1	5.0	-5.0
-69	4.2	-4.2	5.2	-5.1
-68	4.3	-4.3	5.3	-5.2
-67	4.4	-4.4	5.4	-5.4
-66	4.6	-4.6	5.5	-5.5
-65	4.7	-4.7	5.7	-5.6
-64	4.9	-4.9	5.8	-5.8
-63	5.0	-5.0	5.9	-5.9
-62	5.2	-5.2	6.1	-6.0
-61	5.3	-5.3	6.2	-6.2
-60	5.5	-5.5	6.4	-6.3
-59	5.7	-5.7	6.5	-6.5
-58	5.9	-5.9	6.7	-6.6
-57	6.1	-6.1	6.9	-6.8
-56	6.3	-6.3	7.0	-7.0
-55	6.5	-6.5	7.2	-7.1
-54	6.8	-6.7	7.4	-7.3
-53	7.0	-7.0	7.6	-7.5
-52	7.3	-7.3	7.8	-7.7
-51	7.6	-7.5	8.0	-7.9
-50	7.8	-7.8	8.2	-8.0
-49	8.2	-8.1	8.4	-8.2
-48	8.5	-8.5	8.6	-8.4
-47	8.8	-8.8	8.8	-8.6
-46	9.2	-9.2	9.0	-8.8
-45	9.6	-9.5	9.2	-9.0
-44	10.0	-10.0	9.4	-9.2
-43	10.5	-10.4	9.6	-9.4
-42	10.9	-10.9	9.8	-9.6
-41	11.4	-11.4	10.1	-9.8
-40	12.0	-11.9	10.3	-10.0
-39	12.5	-12.5	10.5	-10.1
-38	13.2	-13.1	10.7	-10.3
-37	13.8	-13.7	10.9	-10.4
-36	14.5	-14.4	11.0	-10.5
-35	15.3	-15.2	11.2	-10.6
-34	16.1	-16.0	11.3	-10.7

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Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-33	17.0	-16.8	11.4	-10.7
-32	18.0	-17.8	11.5	-10.7
-31	19.0	-18.8	11.5	-10.6
-30	20.1	-19.9	11.5	-10.5
-29	21.4	-21.0	11.4	-10.3
-28	22.7	-22.3	11.3	-10.0
-27	24.1	-23.7	11.0	-9.6
-26	25.7	-25.2	10.7	-9.1
-25	27.4	-26.8	10.3	-8.5
-24	29.3	-28.5	9.7	-7.7
-23	31.4	-30.3	9.0	-6.7
-22	33.6	-32.3	8.1	-5.5
-21	36.1	-34.5	7.0	-4.1
-20	38.7	-36.7	5.6	-2.5
-19	41.7	-39.1	4.1	-0.5
-18	44.8	-41.6	2.2	1.8
-17	48.3	-44.0	0	4.4
-16	51.9	-46.3	-2.6	7.4
-15	55.8	-48.4	-5.6	10.7
-14	59.9	-49.8	-9.0	14.5
-13	64.0	-50.3	-12.8	18.7
-12	67.9	-49.0	-17.0	23.2
-11	71.3	-45.1	-21.6	28.0
-10	73.5	-37.2	-26.7	33.2
-9	73.9	-23.4	-32.1	38.5
-8	70.9	-1.6	-37.7	44.0
-7	62.8	30.5	-43.5	49.4
-6	46.8	75.0	-49.2	54.7
-5	19.6	132.1	-54.7	59.7
-4	-22.4	199.7	-59.8	64.2
-3	-81.6	271.9	-64.3	68.0
-2	-156.7	338.9	-68.0	71.1
-1	-236.9	388.9	-70.6	73.2
0	-292.8	411.4	-72.1	74.4
1	-284.5	401.8	-72.5	74.6
2	-222.9	363.3	-71.6	73.8
3	-149.4	305.2	-69.6	72.1
4	-85.2	238.9	-66.6	69.4
5	-36.0	174.1	-62.8	66.0
6	-1.2	117.2	-58.3	62.0
7	21.8	70.9	-53.3	57.5
8	36.2	35.5	-48.2	52.7
9	44.5	9.8	-42.9	47.8
10	48.7	-8.1	-37.7	42.8

Continued on next page

Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
11	50.2		-19.9		-32.7		37.9	
12	50.0		-27.4		-27.9		33.1	
13	48.7		-31.7		-23.5		28.5	
14	46.7		-34.0		-19.4		24.3	
15	44.5		-34.8		-15.7		20.4	
16	42.1		-34.7		-12.4		16.7	
17	39.7		-33.9		-9.4		13.5	
18	37.3		-32.8		-6.7		10.5	
19	35.1		-31.5		-4.4		7.9	
20	32.9		-30.1		-2.4		5.6	
21	30.9		-28.6		-0.6		3.5	
22	29.0		-27.2		0.9		1.8	
23	27.3		-25.8		2.2		0.2	
24	25.7		-24.4		3.3		-1.1	
25	24.2		-23.1		4.2		-2.3	
26	22.8		-21.9		5.0		-3.3	
27	21.5		-20.7		5.7		-4.1	
28	20.3		-19.7		6.2		-4.8	
29	19.2		-18.6		6.7		-5.4	
30	18.1		-17.7		7.0		-5.9	
31	17.2		-16.8		7.3		-6.3	
32	16.3		-16.0		7.5		-6.6	
33	15.5		-15.2		7.7		-6.8	
34	14.7		-14.5		7.8		-7.0	
35	14.0		-13.8		7.8		-7.2	
36	13.3		-13.1		7.9		-7.3	
37	12.7		-12.5		7.9		-7.3	
38	12.1		-12.0		7.8		-7.4	
39	11.6		-11.4		7.8		-7.4	
40	11.1		-10.9		7.7		-7.3	
41	10.6		-10.5		7.7		-7.3	
42	10.1		-10.0		7.6		-7.2	
43	9.7		-9.6		7.5		-7.2	
44	9.3		-9.2		7.4		-7.1	
45	8.9		-8.9		7.3		-7.0	
46	8.6		-8.5		7.2		-6.9	
47	8.3		-8.2		7.0		-6.8	
48	8.0		-7.9		6.9		-6.7	
49	7.7		-7.6		6.8		-6.6	
50	7.4		-7.3		6.7		-6.5	
51	7.1		-7.1		6.5		-6.4	
52	6.9		-6.8		6.4		-6.3	
53	6.6		-6.6		6.3		-6.2	
54	6.4		-6.4		6.2		-6.0	

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Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
55	6.2	-6.1	6.0	-5.9
56	6.0	-5.9	5.9	-5.8
57	5.8	-5.7	5.8	-5.7
58	5.6	-5.6	5.7	-5.6
59	5.4	-5.4	5.5	-5.5
60	5.2	-5.2	5.4	-5.4
61	5.1	-5.1	5.3	-5.3
62	4.9	-4.9	5.2	-5.1
63	4.8	-4.8	5.1	-5.0
64	4.6	-4.6	5.0	-4.9
65	4.5	-4.5	4.9	-4.8
66	4.4	-4.4	4.8	-4.7
67	4.2	-4.2	4.7	-4.6
68	4.1	-4.1	4.6	-4.5
69	4.0	-4.0	4.5	-4.5
70	3.9	-3.9	4.4	-4.4
71	3.8	-3.8	4.3	-4.3
72	3.7	-3.7	4.2	-4.2
73	3.6	-3.6	4.1	-4.1
74	3.5	-3.5	4.1	-4.0
75	3.4	-3.4	4.0	-3.9
76	3.3	-3.3	3.9	-3.9
77	3.3	-3.2	3.8	-3.8
78	3.2	-3.2	3.7	-3.7
79	3.1	-3.1	3.7	-3.6
80	3.0	-3.0	3.6	-3.6
81	2.9	-2.9	3.5	-3.5
82	2.9	-2.9	3.5	-3.4
83	2.8	-2.8	3.4	-3.4
84	2.7	-2.7	3.3	-3.3
85	2.7	-2.7	3.3	-3.3
86	2.6	-2.6	3.2	-3.2
87	2.6	-2.6	3.1	-3.1
88	2.5	-2.5	3.1	-3.1
89	2.5	-2.5	3.0	-3.0
90	2.4	-2.4	3.0	-3.0
91	2.4	-2.3	2.9	-2.9
92	2.3	-2.3	2.9	-2.9
93	2.3	-2.3	2.8	-2.8
94	2.2	-2.2	2.8	-2.8
95	2.2	-2.2	2.7	-2.7
96	2.1	-2.1	2.7	-2.7
97	2.1	-2.1	2.6	-2.6
98	2.0	-2.0	2.6	-2.6

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Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
99	2.0		-2.0		2.5		-2.5	
100	2.0		-2.0		2.5		-2.5	
101	1.9		-1.9		2.4		-2.4	
102	1.9		-1.9		2.4		-2.4	
103	1.8		-1.8		2.4		-2.4	
104	1.8		-1.8		2.3		-2.3	
105	1.8		-1.8		2.3		-2.3	
106	1.7		-1.7		2.3		-2.2	
107	1.7		-1.7		2.2		-2.2	
108	1.7		-1.7		2.2		-2.2	
109	1.7		-1.7		2.1		-2.1	
110	1.6		-1.6		2.1		-2.1	
111	1.6		-1.6		2.1		-2.1	
112	1.6		-1.6		2.0		-2.0	
113	1.5		-1.5		2.0		-2.0	
114	1.5		-1.5		2.0		-2.0	
115	1.5		-1.5		1.9		-1.9	
116	1.5		-1.5		1.9		-1.9	
117	1.4		-1.4		1.9		-1.9	
118	1.4		-1.4		1.9		-1.9	
119	1.4		-1.4		1.8		-1.8	
120	1.4		-1.4		1.8		-1.8	
121	1.3		-1.3		1.8		-1.8	
122	1.3		-1.3		1.8		-1.8	
123	1.3		-1.3		1.7		-1.7	
124	1.3		-1.3		1.7		-1.7	
125	1.3		-1.3		1.7		-1.7	
126	1.2		-1.2		1.7		-1.7	
127	1.2		-1.2		1.6		-1.6	
128	1.2		-1.2		1.6		-1.6	
129	1.2		-1.2		1.6		-1.6	
130	1.2		-1.2		1.6		-1.6	
131	1.2		-1.2		1.5		-1.5	
132	1.1		-1.1		1.5		-1.5	
133	1.1		-1.1		1.5		-1.5	
134	1.1		-1.1		1.5		-1.5	
135	1.1		-1.1		1.5		-1.5	
136	1.1		-1.1		1.4		-1.4	
137	1.1		-1.1		1.4		-1.4	
138	1.0		-1.0		1.4		-1.4	
139	1.0		-1.0		1.4		-1.4	
140	1.0		-1.0		1.4		-1.4	
141	1.0		-1.0		1.3		-1.3	
142	1.0		-1.0		1.3		-1.3	

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Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
143	1.0		-1.0		1.3		-1.3	
144	1.0		-1.0		1.3		-1.3	
145	0.9		-0.9		1.3		-1.3	
146	0.9		-0.9		1.3		-1.3	
147	0.9		-0.9		1.2		-1.2	
148	0.9		-0.9		1.2		-1.2	
149	0.9		-0.9		1.2		-1.2	
150	0.9		-0.9		1.2		-1.2	
151	0.9		-0.9		1.2		-1.2	
152	0.9		-0.9		1.2		-1.2	
153	0.8		-0.8		1.2		-1.2	
154	0.8		-0.8		1.1		-1.1	
155	0.8		-0.8		1.1		-1.1	
156	0.8		-0.8		1.1		-1.1	
157	0.8		-0.8		1.1		-1.1	
158	0.8		-0.8		1.1		-1.1	
159	0.8		-0.8		1.1		-1.1	
160	0.8		-0.8		1.1		-1.1	
161	0.8		-0.8		1.1		-1.1	
162	0.8		-0.8		1.0		-1.0	
163	0.7		-0.7		1.0		-1.0	
164	0.7		-0.7		1.0		-1.0	
165	0.7		-0.7		1.0		-1.0	
166	0.7		-0.7		1.0		-1.0	
167	0.7		-0.7		1.0		-1.0	
168	0.7		-0.7		1.0		-1.0	
169	0.7		-0.7		1.0		-1.0	
170	0.7		-0.7		0.9		-0.9	
171	0.7		-0.7		0.9		-0.9	
172	0.7		-0.7		0.9		-0.9	
173	0.7		-0.7		0.9		-0.9	
174	0.7		-0.7		0.9		-0.9	
175	0.6		-0.6		0.9		-0.9	
176	0.6		-0.6		0.9		-0.9	
177	0.6		-0.6		0.9		-0.9	
178	0.6		-0.6		0.9		-0.9	
179	0.6		-0.6		0.9		-0.9	
180	0.6		-0.6		0.9		-0.9	
181	0.6		-0.6		0.8		-0.8	
182	0.6		-0.6		0.8		-0.8	
183	0.6		-0.6		0.8		-0.8	
184	0.6		-0.6		0.8		-0.8	
185	0.6		-0.6		0.8		-0.8	
186	0.6		-0.6		0.8		-0.8	

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Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
187	0.6		-0.6		0.8		-0.8	
188	0.6		-0.6		0.8		-0.8	
189	0.6		-0.6		0.8		-0.8	
190	0.6		-0.6		0.8		-0.8	
191	0.5		-0.5		0.8		-0.8	
192	0.5		-0.5		0.8		-0.8	
193	0.5		-0.5		0.7		-0.7	
194	0.5		-0.5		0.7		-0.7	
195	0.5		-0.5		0.7		-0.7	
196	0.5		-0.5		0.7		-0.7	
197	0.5		-0.5		0.7		-0.7	
198	0.5		-0.5		0.7		-0.7	
199	0.5		-0.5		0.7		-0.7	
200	0.5		-0.5		0.7		-0.7	
201	0.5		-0.5		0.7		-0.7	
202	0.5		-0.5		0.7		-0.7	
203	0.5		-0.5		0.7		-0.7	
204	0.5		-0.5		0.7		-0.7	
205	0.5		-0.5		0.7		-0.7	
206	0.5		-0.5		0.7		-0.7	
207	0.5		-0.5		0.7		-0.7	
208	0.5		-0.5		0.6		-0.6	
209	0.5		-0.5		0.6		-0.6	
210	0.5		-0.5		0.6		-0.6	
211	0.4		-0.4		0.6		-0.6	
212	0.4		-0.4		0.6		-0.6	
213	0.4		-0.4		0.6		-0.6	
214	0.4		-0.4		0.6		-0.6	
215	0.4		-0.4		0.6		-0.6	
216	0.4		-0.4		0.6		-0.6	
217	0.4		-0.4		0.6		-0.6	
218	0.4		-0.4		0.6		-0.6	
219	0.4		-0.4		0.6		-0.6	
220	0.4		-0.4		0.6		-0.6	
221	0.4		-0.4		0.6		-0.6	
222	0.4		-0.4		0.6		-0.6	
223	0.4		-0.4		0.6		-0.6	
224	0.4		-0.4		0.6		-0.6	
225	0.4		-0.4		0.6		-0.6	
226	0.4		-0.4		0.6		-0.5	
227	0.4		-0.4		0.5		-0.5	
228	0.4		-0.4		0.5		-0.5	
229	0.4		-0.4		0.5		-0.5	
230	0.4		-0.4		0.5		-0.5	

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Table E-5 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
231	0.4		-0.4		0.5		-0.5	
232	0.4		-0.4		0.5		-0.5	
233	0.4		-0.4		0.5		-0.5	
234	0.4		-0.4		0.5		-0.5	
235	0.4		-0.4		0.5		-0.5	
236	0.4		-0.4		0.5		-0.5	
237	0.4		-0.4		0.5		-0.5	
238	0.4		-0.4		0.5		-0.5	
239	0.3		-0.3		0.5		-0.5	
240	0.3		-0.3		0.5		-0.5	
241	0.3		-0.3		0.5		-0.5	
242	0.3		-0.3		0.5		-0.5	
243	0.3		-0.3		0.5		-0.5	
244	0.3		-0.3		0.5		-0.5	
245	0.3		-0.3		0.5		-0.5	
246	0.3		-0.3		0.5		-0.5	
247	0.3		-0.3		0.5		-0.5	
248	0.3		-0.3		0.5		-0.5	
249	0.3		-0.3		0.5		-0.5	
250	0.3		-0.3		0.5		-0.5	

Table E-6. Calculated differences between the Earth's DC magnetic field and the DC magnetic field around the Onshore Transmission Cable for east-west cable orientation (0° north of east) for duct bank and direct bury configurations

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-250	0.3	-0.3	0.5	-0.5
-249	0.3	-0.3	0.5	-0.5
-248	0.3	-0.3	0.5	-0.5
-247	0.3	-0.3	0.5	-0.5
-246	0.3	-0.3	0.5	-0.5
-245	0.3	-0.3	0.5	-0.5
-244	0.3	-0.3	0.5	-0.5
-243	0.3	-0.3	0.5	-0.5
-242	0.4	-0.4	0.5	-0.5
-241	0.4	-0.4	0.5	-0.5
-240	0.4	-0.4	0.5	-0.5
-239	0.4	-0.4	0.5	-0.5
-238	0.4	-0.4	0.5	-0.5
-237	0.4	-0.4	0.5	-0.5
-236	0.4	-0.4	0.6	-0.6
-235	0.4	-0.4	0.6	-0.6
-234	0.4	-0.4	0.6	-0.6
-233	0.4	-0.4	0.6	-0.6
-232	0.4	-0.4	0.6	-0.6
-231	0.4	-0.4	0.6	-0.6
-230	0.4	-0.4	0.6	-0.6
-229	0.4	-0.4	0.6	-0.6
-228	0.4	-0.4	0.6	-0.6
-227	0.4	-0.4	0.6	-0.6
-226	0.4	-0.4	0.6	-0.6
-225	0.4	-0.4	0.6	-0.6
-224	0.4	-0.4	0.6	-0.6
-223	0.4	-0.4	0.6	-0.6
-222	0.4	-0.4	0.6	-0.6
-221	0.4	-0.4	0.6	-0.6
-220	0.4	-0.4	0.6	-0.6
-219	0.4	-0.4	0.6	-0.6
-218	0.4	-0.4	0.7	-0.7
-217	0.4	-0.4	0.7	-0.7
-216	0.4	-0.4	0.7	-0.7
-215	0.4	-0.4	0.7	-0.7
-214	0.5	-0.5	0.7	-0.7
-213	0.5	-0.5	0.7	-0.7
-212	0.5	-0.5	0.7	-0.7
-211	0.5	-0.5	0.7	-0.7
-210	0.5	-0.5	0.7	-0.7

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-209	0.5		-0.5		0.7		-0.7	
-208	0.5		-0.5		0.7		-0.7	
-207	0.5		-0.5		0.7		-0.7	
-206	0.5		-0.5		0.7		-0.7	
-205	0.5		-0.5		0.7		-0.7	
-204	0.5		-0.5		0.7		-0.7	
-203	0.5		-0.5		0.8		-0.8	
-202	0.5		-0.5		0.8		-0.8	
-201	0.5		-0.5		0.8		-0.8	
-200	0.5		-0.5		0.8		-0.8	
-199	0.5		-0.5		0.8		-0.8	
-198	0.5		-0.5		0.8		-0.8	
-197	0.5		-0.5		0.8		-0.8	
-196	0.5		-0.5		0.8		-0.8	
-195	0.5		-0.5		0.8		-0.8	
-194	0.6		-0.6		0.8		-0.8	
-193	0.6		-0.6		0.8		-0.8	
-192	0.6		-0.6		0.8		-0.8	
-191	0.6		-0.6		0.9		-0.9	
-190	0.6		-0.6		0.9		-0.9	
-189	0.6		-0.6		0.9		-0.9	
-188	0.6		-0.6		0.9		-0.9	
-187	0.6		-0.6		0.9		-0.9	
-186	0.6		-0.6		0.9		-0.9	
-185	0.6		-0.6		0.9		-0.9	
-184	0.6		-0.6		0.9		-0.9	
-183	0.6		-0.6		0.9		-0.9	
-182	0.6		-0.6		0.9		-0.9	
-181	0.6		-0.6		0.9		-0.9	
-180	0.6		-0.6		1.0		-1.0	
-179	0.6		-0.6		1.0		-1.0	
-178	0.7		-0.7		1.0		-1.0	
-177	0.7		-0.7		1.0		-1.0	
-176	0.7		-0.7		1.0		-1.0	
-175	0.7		-0.7		1.0		-1.0	
-174	0.7		-0.7		1.0		-1.0	
-173	0.7		-0.7		1.0		-1.0	
-172	0.7		-0.7		1.1		-1.1	
-171	0.7		-0.7		1.1		-1.1	
-170	0.7		-0.7		1.1		-1.1	
-169	0.7		-0.7		1.1		-1.1	
-168	0.7		-0.7		1.1		-1.1	
-167	0.7		-0.7		1.1		-1.1	
-166	0.8		-0.8		1.1		-1.1	

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-165	0.8		-0.8		1.1		-1.1	
-164	0.8		-0.8		1.2		-1.2	
-163	0.8		-0.8		1.2		-1.2	
-162	0.8		-0.8		1.2		-1.2	
-161	0.8		-0.8		1.2		-1.2	
-160	0.8		-0.8		1.2		-1.2	
-159	0.8		-0.8		1.2		-1.2	
-158	0.8		-0.8		1.2		-1.2	
-157	0.8		-0.8		1.3		-1.3	
-156	0.9		-0.9		1.3		-1.3	
-155	0.9		-0.9		1.3		-1.3	
-154	0.9		-0.9		1.3		-1.3	
-153	0.9		-0.9		1.3		-1.3	
-152	0.9		-0.9		1.3		-1.3	
-151	0.9		-0.9		1.4		-1.4	
-150	0.9		-0.9		1.4		-1.4	
-149	0.9		-0.9		1.4		-1.4	
-148	1.0		-1.0		1.4		-1.4	
-147	1.0		-1.0		1.4		-1.4	
-146	1.0		-1.0		1.5		-1.5	
-145	1.0		-1.0		1.5		-1.5	
-144	1.0		-1.0		1.5		-1.5	
-143	1.0		-1.0		1.5		-1.5	
-142	1.0		-1.0		1.5		-1.5	
-141	1.1		-1.1		1.6		-1.6	
-140	1.1		-1.1		1.6		-1.6	
-139	1.1		-1.1		1.6		-1.6	
-138	1.1		-1.1		1.6		-1.6	
-137	1.1		-1.1		1.7		-1.7	
-136	1.1		-1.1		1.7		-1.7	
-135	1.1		-1.1		1.7		-1.7	
-134	1.2		-1.2		1.7		-1.7	
-133	1.2		-1.2		1.8		-1.8	
-132	1.2		-1.2		1.8		-1.8	
-131	1.2		-1.2		1.8		-1.8	
-130	1.2		-1.2		1.8		-1.8	
-129	1.3		-1.3		1.9		-1.9	
-128	1.3		-1.3		1.9		-1.9	
-127	1.3		-1.3		1.9		-1.9	
-126	1.3		-1.3		2.0		-2.0	
-125	1.3		-1.3		2.0		-2.0	
-124	1.4		-1.4		2.0		-2.0	
-123	1.4		-1.4		2.1		-2.1	
-122	1.4		-1.4		2.1		-2.1	

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-121	1.4		-1.4		2.1		-2.1	
-120	1.5		-1.5		2.2		-2.2	
-119	1.5		-1.5		2.2		-2.2	
-118	1.5		-1.5		2.2		-2.2	
-117	1.5		-1.5		2.3		-2.3	
-116	1.6		-1.6		2.3		-2.3	
-115	1.6		-1.6		2.4		-2.4	
-114	1.6		-1.6		2.4		-2.4	
-113	1.6		-1.6		2.4		-2.4	
-112	1.7		-1.7		2.5		-2.5	
-111	1.7		-1.7		2.5		-2.5	
-110	1.7		-1.7		2.6		-2.6	
-109	1.8		-1.8		2.6		-2.6	
-108	1.8		-1.8		2.7		-2.7	
-107	1.8		-1.8		2.7		-2.7	
-106	1.9		-1.9		2.8		-2.8	
-105	1.9		-1.9		2.8		-2.8	
-104	2.0		-2.0		2.9		-2.9	
-103	2.0		-2.0		2.9		-2.9	
-102	2.0		-2.0		3.0		-3.0	
-101	2.1		-2.1		3.0		-3.0	
-100	2.1		-2.1		3.1		-3.1	
-99	2.2		-2.2		3.1		-3.1	
-98	2.2		-2.2		3.2		-3.2	
-97	2.2		-2.2		3.3		-3.3	
-96	2.3		-2.3		3.3		-3.3	
-95	2.3		-2.3		3.4		-3.4	
-94	2.4		-2.4		3.5		-3.5	
-93	2.4		-2.4		3.6		-3.6	
-92	2.5		-2.5		3.6		-3.6	
-91	2.6		-2.6		3.7		-3.7	
-90	2.6		-2.6		3.8		-3.8	
-89	2.7		-2.7		3.9		-3.9	
-88	2.7		-2.7		3.9		-3.9	
-87	2.8		-2.8		4.0		-4.0	
-86	2.9		-2.9		4.1		-4.1	
-85	2.9		-2.9		4.2		-4.2	
-84	3.0		-3.0		4.3		-4.3	
-83	3.1		-3.1		4.4		-4.4	
-82	3.2		-3.2		4.5		-4.5	
-81	3.2		-3.2		4.6		-4.6	
-80	3.3		-3.3		4.7		-4.7	
-79	3.4		-3.4		4.8		-4.8	
-78	3.5		-3.5		4.9		-4.9	

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-77	3.6	-3.6	5.1	-5.1
-76	3.7	-3.7	5.2	-5.2
-75	3.8	-3.8	5.3	-5.3
-74	3.9	-3.9	5.4	-5.4
-73	4.0	-4.0	5.6	-5.6
-72	4.1	-4.1	5.7	-5.7
-71	4.2	-4.2	5.9	-5.9
-70	4.4	-4.4	6.0	-6.0
-69	4.5	-4.5	6.2	-6.2
-68	4.6	-4.6	6.3	-6.3
-67	4.8	-4.8	6.5	-6.5
-66	4.9	-4.9	6.7	-6.7
-65	5.1	-5.1	6.8	-6.8
-64	5.2	-5.2	7.0	-7.0
-63	5.4	-5.4	7.2	-7.2
-62	5.6	-5.6	7.4	-7.4
-61	5.8	-5.8	7.6	-7.6
-60	5.9	-5.9	7.8	-7.8
-59	6.2	-6.2	8.1	-8.1
-58	6.4	-6.4	8.3	-8.3
-57	6.6	-6.6	8.5	-8.5
-56	6.8	-6.8	8.8	-8.8
-55	7.1	-7.1	9.0	-9.0
-54	7.4	-7.4	9.3	-9.3
-53	7.6	-7.6	9.6	-9.6
-52	7.9	-7.9	9.9	-9.8
-51	8.2	-8.2	10.2	-10.1
-50	8.6	-8.6	10.5	-10.4
-49	8.9	-8.9	10.8	-10.8
-48	9.3	-9.3	11.1	-11.1
-47	9.7	-9.7	11.5	-11.4
-46	10.1	-10.1	11.8	-11.8
-45	10.6	-10.6	12.2	-12.1
-44	11.1	-11.1	12.5	-12.5
-43	11.6	-11.6	12.9	-12.8
-42	12.1	-12.1	13.3	-13.2
-41	12.7	-12.7	13.7	-13.6
-40	13.4	-13.4	14.1	-14.0
-39	14.0	-14.0	14.6	-14.4
-38	14.8	-14.8	15.0	-14.8
-37	15.6	-15.5	15.4	-15.2
-36	16.4	-16.4	15.8	-15.6
-35	17.3	-17.3	16.3	-16.0
-34	18.3	-18.3	16.7	-16.4

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-33	19.4		-19.4		17.1		-16.8	
-32	20.6		-20.6		17.6		-17.1	
-31	21.8		-21.8		17.9		-17.4	
-30	23.2		-23.2		18.3		-17.7	
-29	24.7		-24.7		18.7		-18.0	
-28	26.4		-26.4		18.9		-18.2	
-27	28.2		-28.2		19.2		-18.3	
-26	30.2		-30.2		19.4		-18.3	
-25	32.4		-32.4		19.4		-18.2	
-24	34.9		-34.8		19.4		-17.9	
-23	37.6		-37.4		19.3		-17.5	
-22	40.6		-40.4		18.9		-16.9	
-21	43.9		-43.6		18.5		-16.1	
-20	47.5		-47.1		17.8		-15.0	
-19	51.6		-51.0		16.8		-13.7	
-18	56.1		-55.3		15.5		-12.0	
-17	61.1		-59.9		13.9		-9.9	
-16	66.7		-64.9		12.0		-7.4	
-15	72.8		-70.0		9.6		-4.4	
-14	79.5		-75.3		6.7		-0.9	
-13	86.7		-80.3		3.3		3.1	
-12	94.3		-84.4		-0.6		7.6	
-11	102.2		-86.7		-5.2		12.6	
-10	109.7		-85.8		-10.2		18.1	
-9	116.2		-79.5		-15.9		24.0	
-8	120.5		-64.7		-22.1		30.3	
-7	120.5		-38.1		-28.7		36.8	
-6	113.3		3.5		-35.5		43.3	
-5	95.1		61.6		-42.6		49.8	
-4	60.7		135.0		-49.5		56.0	
-3	5.3		217.8		-56.2		61.7	
-2	-74.4		300.0		-62.4		66.8	
-1	-177.0		368.7		-67.8		71.1	
0	-292.8		411.4		-72.1		74.4	
1	-391.3		421.4		-75.4		76.8	
2	-380.3		399.5		-77.3		78.0	
3	-292.0		353.9		-77.9		78.2	
4	-206.4		295.3		-77.3		77.4	
5	-137.4		234.0		-75.5		75.6	
6	-85.6		176.9		-72.6		73.0	
7	-48.1		127.8		-69.0		69.7	
8	-21.9		88.0		-64.7		65.9	
9	-3.8		57.0		-60.1		61.7	
10	8.3		33.6		-55.2		57.2	

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
11	16.2		16.4		-50.2		52.6	
12	21.3		4.1		-45.3		48.0	
13	24.3		-4.6		-40.5		43.4	
14	25.9		-10.6		-35.9		39.0	
15	26.6		-14.7		-31.7		34.8	
16	26.7		-17.3		-27.7		30.8	
17	26.3		-18.9		-24.0		27.1	
18	25.6		-19.7		-20.7		23.7	
19	24.8		-20.1		-17.7		20.5	
20	23.9		-20.1		-15.0		17.7	
21	22.9		-19.8		-12.5		15.1	
22	21.9		-19.4		-10.4		12.7	
23	21.0		-18.8		-8.4		10.6	
24	20.0		-18.2		-6.7		8.8	
25	19.1		-17.6		-5.2		7.1	
26	18.2		-16.9		-3.9		5.6	
27	17.3		-16.3		-2.7		4.3	
28	16.5		-15.6		-1.7		3.1	
29	15.7		-15.0		-0.8		2.1	
30	15.0		-14.4		0		1.2	
31	14.3		-13.8		0.7		0.4	
32	13.7		-13.2		1.3		-0.3	
33	13.1		-12.7		1.8		-0.9	
34	12.5		-12.1		2.3		-1.4	
35	12.0		-11.6		2.6		-1.9	
36	11.4		-11.2		3.0		-2.3	
37	11.0		-10.7		3.2		-2.6	
38	10.5		-10.3		3.5		-2.9	
39	10.1		-9.9		3.7		-3.1	
40	9.7		-9.5		3.8		-3.3	
41	9.3		-9.1		4.0		-3.5	
42	8.9		-8.8		4.1		-3.7	
43	8.6		-8.5		4.2		-3.8	
44	8.3		-8.1		4.2		-3.9	
45	8.0		-7.9		4.3		-4.0	
46	7.7		-7.6		4.3		-4.0	
47	7.4		-7.3		4.3		-4.1	
48	7.1		-7.0		4.3		-4.1	
49	6.9		-6.8		4.3		-4.1	
50	6.6		-6.6		4.3		-4.1	
51	6.4		-6.4		4.3		-4.1	
52	6.2		-6.1		4.3		-4.1	
53	6.0		-5.9		4.3		-4.1	
54	5.8		-5.8		4.2		-4.1	

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
55	5.6	-5.6	4.2	-4.1
56	5.4	-5.4	4.2	-4.0
57	5.3	-5.2	4.1	-4.0
58	5.1	-5.1	4.1	-3.9
59	5.0	-4.9	4.0	-3.9
60	4.8	-4.8	4.0	-3.9
61	4.7	-4.6	3.9	-3.8
62	4.5	-4.5	3.9	-3.8
63	4.4	-4.4	3.8	-3.7
64	4.3	-4.3	3.8	-3.7
65	4.2	-4.1	3.7	-3.6
66	4.0	-4.0	3.6	-3.6
67	3.9	-3.9	3.6	-3.5
68	3.8	-3.8	3.5	-3.5
69	3.7	-3.7	3.5	-3.4
70	3.6	-3.6	3.4	-3.4
71	3.5	-3.5	3.4	-3.3
72	3.4	-3.4	3.3	-3.3
73	3.4	-3.3	3.3	-3.2
74	3.3	-3.3	3.2	-3.2
75	3.2	-3.2	3.2	-3.1
76	3.1	-3.1	3.1	-3.1
77	3.0	-3.0	3.1	-3.0
78	3.0	-3.0	3.0	-3.0
79	2.9	-2.9	3.0	-2.9
80	2.8	-2.8	2.9	-2.9
81	2.8	-2.8	2.9	-2.8
82	2.7	-2.7	2.8	-2.8
83	2.6	-2.6	2.8	-2.8
84	2.6	-2.6	2.7	-2.7
85	2.5	-2.5	2.7	-2.7
86	2.5	-2.5	2.6	-2.6
87	2.4	-2.4	2.6	-2.6
88	2.4	-2.4	2.6	-2.5
89	2.3	-2.3	2.5	-2.5
90	2.3	-2.3	2.5	-2.5
91	2.2	-2.2	2.4	-2.4
92	2.2	-2.2	2.4	-2.4
93	2.1	-2.1	2.4	-2.4
94	2.1	-2.1	2.3	-2.3
95	2.1	-2.0	2.3	-2.3
96	2.0	-2.0	2.3	-2.2
97	2.0	-2.0	2.2	-2.2
98	1.9	-1.9	2.2	-2.2

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
99	1.9		-1.9		2.2		-2.1	
100	1.9		-1.9		2.1		-2.1	
101	1.8		-1.8		2.1		-2.1	
102	1.8		-1.8		2.1		-2.1	
103	1.8		-1.8		2.0		-2.0	
104	1.7		-1.7		2.0		-2.0	
105	1.7		-1.7		2.0		-2.0	
106	1.7		-1.7		1.9		-1.9	
107	1.6		-1.6		1.9		-1.9	
108	1.6		-1.6		1.9		-1.9	
109	1.6		-1.6		1.9		-1.9	
110	1.6		-1.5		1.8		-1.8	
111	1.5		-1.5		1.8		-1.8	
112	1.5		-1.5		1.8		-1.8	
113	1.5		-1.5		1.8		-1.7	
114	1.4		-1.4		1.7		-1.7	
115	1.4		-1.4		1.7		-1.7	
116	1.4		-1.4		1.7		-1.7	
117	1.4		-1.4		1.7		-1.7	
118	1.4		-1.4		1.6		-1.6	
119	1.3		-1.3		1.6		-1.6	
120	1.3		-1.3		1.6		-1.6	
121	1.3		-1.3		1.6		-1.6	
122	1.3		-1.3		1.5		-1.5	
123	1.3		-1.3		1.5		-1.5	
124	1.2		-1.2		1.5		-1.5	
125	1.2		-1.2		1.5		-1.5	
126	1.2		-1.2		1.5		-1.5	
127	1.2		-1.2		1.4		-1.4	
128	1.2		-1.2		1.4		-1.4	
129	1.1		-1.1		1.4		-1.4	
130	1.1		-1.1		1.4		-1.4	
131	1.1		-1.1		1.4		-1.4	
132	1.1		-1.1		1.4		-1.4	
133	1.1		-1.1		1.3		-1.3	
134	1.1		-1.1		1.3		-1.3	
135	1.0		-1.0		1.3		-1.3	
136	1.0		-1.0		1.3		-1.3	
137	1.0		-1.0		1.3		-1.3	
138	1.0		-1.0		1.3		-1.3	
139	1.0		-1.0		1.2		-1.2	
140	1.0		-1.0		1.2		-1.2	
141	1.0		-1.0		1.2		-1.2	
142	0.9		-0.9		1.2		-1.2	

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
143	0.9		-0.9		1.2		-1.2	
144	0.9		-0.9		1.2		-1.2	
145	0.9		-0.9		1.2		-1.2	
146	0.9		-0.9		1.1		-1.1	
147	0.9		-0.9		1.1		-1.1	
148	0.9		-0.9		1.1		-1.1	
149	0.9		-0.9		1.1		-1.1	
150	0.9		-0.9		1.1		-1.1	
151	0.8		-0.8		1.1		-1.1	
152	0.8		-0.8		1.1		-1.1	
153	0.8		-0.8		1.1		-1.0	
154	0.8		-0.8		1.0		-1.0	
155	0.8		-0.8		1.0		-1.0	
156	0.8		-0.8		1.0		-1.0	
157	0.8		-0.8		1.0		-1.0	
158	0.8		-0.8		1.0		-1.0	
159	0.8		-0.8		1.0		-1.0	
160	0.8		-0.8		1.0		-1.0	
161	0.7		-0.7		1.0		-1.0	
162	0.7		-0.7		0.9		-0.9	
163	0.7		-0.7		0.9		-0.9	
164	0.7		-0.7		0.9		-0.9	
165	0.7		-0.7		0.9		-0.9	
166	0.7		-0.7		0.9		-0.9	
167	0.7		-0.7		0.9		-0.9	
168	0.7		-0.7		0.9		-0.9	
169	0.7		-0.7		0.9		-0.9	
170	0.7		-0.7		0.9		-0.9	
171	0.7		-0.7		0.9		-0.9	
172	0.7		-0.7		0.9		-0.9	
173	0.6		-0.6		0.8		-0.8	
174	0.6		-0.6		0.8		-0.8	
175	0.6		-0.6		0.8		-0.8	
176	0.6		-0.6		0.8		-0.8	
177	0.6		-0.6		0.8		-0.8	
178	0.6		-0.6		0.8		-0.8	
179	0.6		-0.6		0.8		-0.8	
180	0.6		-0.6		0.8		-0.8	
181	0.6		-0.6		0.8		-0.8	
182	0.6		-0.6		0.8		-0.8	
183	0.6		-0.6		0.8		-0.8	
184	0.6		-0.6		0.8		-0.8	
185	0.6		-0.6		0.7		-0.7	
186	0.6		-0.6		0.7		-0.7	

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
187	0.6		-0.6		0.7		-0.7	
188	0.5		-0.5		0.7		-0.7	
189	0.5		-0.5		0.7		-0.7	
190	0.5		-0.5		0.7		-0.7	
191	0.5		-0.5		0.7		-0.7	
192	0.5		-0.5		0.7		-0.7	
193	0.5		-0.5		0.7		-0.7	
194	0.5		-0.5		0.7		-0.7	
195	0.5		-0.5		0.7		-0.7	
196	0.5		-0.5		0.7		-0.7	
197	0.5		-0.5		0.7		-0.7	
198	0.5		-0.5		0.7		-0.7	
199	0.5		-0.5		0.7		-0.7	
200	0.5		-0.5		0.6		-0.6	
201	0.5		-0.5		0.6		-0.6	
202	0.5		-0.5		0.6		-0.6	
203	0.5		-0.5		0.6		-0.6	
204	0.5		-0.5		0.6		-0.6	
205	0.5		-0.5		0.6		-0.6	
206	0.5		-0.5		0.6		-0.6	
207	0.5		-0.5		0.6		-0.6	
208	0.5		-0.5		0.6		-0.6	
209	0.4		-0.4		0.6		-0.6	
210	0.4		-0.4		0.6		-0.6	
211	0.4		-0.4		0.6		-0.6	
212	0.4		-0.4		0.6		-0.6	
213	0.4		-0.4		0.6		-0.6	
214	0.4		-0.4		0.6		-0.6	
215	0.4		-0.4		0.6		-0.6	
216	0.4		-0.4		0.6		-0.6	
217	0.4		-0.4		0.6		-0.6	
218	0.4		-0.4		0.6		-0.6	
219	0.4		-0.4		0.5		-0.5	
220	0.4		-0.4		0.5		-0.5	
221	0.4		-0.4		0.5		-0.5	
222	0.4		-0.4		0.5		-0.5	
223	0.4		-0.4		0.5		-0.5	
224	0.4		-0.4		0.5		-0.5	
225	0.4		-0.4		0.5		-0.5	
226	0.4		-0.4		0.5		-0.5	
227	0.4		-0.4		0.5		-0.5	
228	0.4		-0.4		0.5		-0.5	
229	0.4		-0.4		0.5		-0.5	
230	0.4		-0.4		0.5		-0.5	

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Table E-6 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
231	0.4		-0.4		0.5		-0.5	
232	0.4		-0.4		0.5		-0.5	
233	0.4		-0.4		0.5		-0.5	
234	0.4		-0.4		0.5		-0.5	
235	0.4		-0.4		0.5		-0.5	
236	0.4		-0.4		0.5		-0.5	
237	0.3		-0.3		0.5		-0.5	
238	0.3		-0.3		0.5		-0.5	
239	0.3		-0.3		0.5		-0.5	
240	0.3		-0.3		0.5		-0.5	
241	0.3		-0.3		0.5		-0.5	
242	0.3		-0.3		0.5		-0.5	
243	0.3		-0.3		0.5		-0.5	
244	0.3		-0.3		0.4		-0.4	
245	0.3		-0.3		0.4		-0.4	
246	0.3		-0.3		0.4		-0.4	
247	0.3		-0.3		0.4		-0.4	
248	0.3		-0.3		0.4		-0.4	
249	0.3		-0.3		0.4		-0.4	
250	0.3		-0.3		0.4		-0.4	

Table E-7. Calculated differences between the Earth's DC magnetic field and the DC magnetic field around the Onshore Transmission Cable for cable orientation 30° north of east and for duct bank and direct bury configurations

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-250	0.3	-0.3	0.5	-0.5
-249	0.3	-0.3	0.5	-0.5
-248	0.3	-0.3	0.5	-0.5
-247	0.3	-0.3	0.5	-0.5
-246	0.3	-0.3	0.5	-0.5
-245	0.3	-0.3	0.5	-0.5
-244	0.3	-0.3	0.5	-0.5
-243	0.3	-0.3	0.5	-0.5
-242	0.4	-0.4	0.5	-0.5
-241	0.4	-0.4	0.5	-0.5
-240	0.4	-0.4	0.5	-0.5
-239	0.4	-0.4	0.5	-0.5
-238	0.4	-0.4	0.5	-0.5
-237	0.4	-0.4	0.5	-0.5
-236	0.4	-0.4	0.6	-0.6
-235	0.4	-0.4	0.6	-0.6
-234	0.4	-0.4	0.6	-0.6
-233	0.4	-0.4	0.6	-0.6
-232	0.4	-0.4	0.6	-0.6
-231	0.4	-0.4	0.6	-0.6
-230	0.4	-0.4	0.6	-0.6
-229	0.4	-0.4	0.6	-0.6
-228	0.4	-0.4	0.6	-0.6
-227	0.4	-0.4	0.6	-0.6
-226	0.4	-0.4	0.6	-0.6
-225	0.4	-0.4	0.6	-0.6
-224	0.4	-0.4	0.6	-0.6
-223	0.4	-0.4	0.6	-0.6
-222	0.4	-0.4	0.6	-0.6
-221	0.4	-0.4	0.6	-0.6
-220	0.4	-0.4	0.6	-0.6
-219	0.4	-0.4	0.6	-0.6
-218	0.4	-0.4	0.7	-0.7
-217	0.4	-0.4	0.7	-0.7
-216	0.4	-0.4	0.7	-0.7
-215	0.4	-0.4	0.7	-0.7
-214	0.5	-0.5	0.7	-0.7
-213	0.5	-0.5	0.7	-0.7
-212	0.5	-0.5	0.7	-0.7
-211	0.5	-0.5	0.7	-0.7
-210	0.5	-0.5	0.7	-0.7

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-209	0.5		-0.5		0.7		-0.7	
-208	0.5		-0.5		0.7		-0.7	
-207	0.5		-0.5		0.7		-0.7	
-206	0.5		-0.5		0.7		-0.7	
-205	0.5		-0.5		0.7		-0.7	
-204	0.5		-0.5		0.7		-0.7	
-203	0.5		-0.5		0.8		-0.8	
-202	0.5		-0.5		0.8		-0.8	
-201	0.5		-0.5		0.8		-0.8	
-200	0.5		-0.5		0.8		-0.8	
-199	0.5		-0.5		0.8		-0.8	
-198	0.5		-0.5		0.8		-0.8	
-197	0.5		-0.5		0.8		-0.8	
-196	0.5		-0.5		0.8		-0.8	
-195	0.5		-0.5		0.8		-0.8	
-194	0.6		-0.6		0.8		-0.8	
-193	0.6		-0.6		0.8		-0.8	
-192	0.6		-0.6		0.8		-0.8	
-191	0.6		-0.6		0.9		-0.9	
-190	0.6		-0.6		0.9		-0.9	
-189	0.6		-0.6		0.9		-0.9	
-188	0.6		-0.6		0.9		-0.9	
-187	0.6		-0.6		0.9		-0.9	
-186	0.6		-0.6		0.9		-0.9	
-185	0.6		-0.6		0.9		-0.9	
-184	0.6		-0.6		0.9		-0.9	
-183	0.6		-0.6		0.9		-0.9	
-182	0.6		-0.6		0.9		-0.9	
-181	0.6		-0.6		0.9		-0.9	
-180	0.6		-0.6		1.0		-1.0	
-179	0.6		-0.6		1.0		-1.0	
-178	0.7		-0.7		1.0		-1.0	
-177	0.7		-0.7		1.0		-1.0	
-176	0.7		-0.7		1.0		-1.0	
-175	0.7		-0.7		1.0		-1.0	
-174	0.7		-0.7		1.0		-1.0	
-173	0.7		-0.7		1.0		-1.0	
-172	0.7		-0.7		1.1		-1.1	
-171	0.7		-0.7		1.1		-1.1	
-170	0.7		-0.7		1.1		-1.1	
-169	0.7		-0.7		1.1		-1.1	
-168	0.7		-0.7		1.1		-1.1	
-167	0.7		-0.7		1.1		-1.1	
-166	0.8		-0.8		1.1		-1.1	

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-165	0.8		-0.8		1.1		-1.1	
-164	0.8		-0.8		1.2		-1.2	
-163	0.8		-0.8		1.2		-1.2	
-162	0.8		-0.8		1.2		-1.2	
-161	0.8		-0.8		1.2		-1.2	
-160	0.8		-0.8		1.2		-1.2	
-159	0.8		-0.8		1.2		-1.2	
-158	0.8		-0.8		1.2		-1.2	
-157	0.8		-0.8		1.3		-1.3	
-156	0.9		-0.9		1.3		-1.3	
-155	0.9		-0.9		1.3		-1.3	
-154	0.9		-0.9		1.3		-1.3	
-153	0.9		-0.9		1.3		-1.3	
-152	0.9		-0.9		1.3		-1.3	
-151	0.9		-0.9		1.4		-1.4	
-150	0.9		-0.9		1.4		-1.4	
-149	0.9		-0.9		1.4		-1.4	
-148	1.0		-1.0		1.4		-1.4	
-147	1.0		-1.0		1.4		-1.4	
-146	1.0		-1.0		1.5		-1.5	
-145	1.0		-1.0		1.5		-1.5	
-144	1.0		-1.0		1.5		-1.5	
-143	1.0		-1.0		1.5		-1.5	
-142	1.0		-1.0		1.5		-1.5	
-141	1.1		-1.1		1.6		-1.6	
-140	1.1		-1.1		1.6		-1.6	
-139	1.1		-1.1		1.6		-1.6	
-138	1.1		-1.1		1.6		-1.6	
-137	1.1		-1.1		1.7		-1.7	
-136	1.1		-1.1		1.7		-1.7	
-135	1.1		-1.1		1.7		-1.7	
-134	1.2		-1.2		1.7		-1.7	
-133	1.2		-1.2		1.8		-1.8	
-132	1.2		-1.2		1.8		-1.8	
-131	1.2		-1.2		1.8		-1.8	
-130	1.2		-1.2		1.8		-1.8	
-129	1.3		-1.3		1.9		-1.9	
-128	1.3		-1.3		1.9		-1.9	
-127	1.3		-1.3		1.9		-1.9	
-126	1.3		-1.3		2.0		-2.0	
-125	1.3		-1.3		2.0		-2.0	
-124	1.4		-1.4		2.0		-2.0	
-123	1.4		-1.4		2.1		-2.1	
-122	1.4		-1.4		2.1		-2.1	

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-121	1.4	-1.4	2.1	-2.1
-120	1.5	-1.5	2.2	-2.2
-119	1.5	-1.5	2.2	-2.2
-118	1.5	-1.5	2.2	-2.2
-117	1.5	-1.5	2.3	-2.3
-116	1.6	-1.6	2.3	-2.3
-115	1.6	-1.6	2.3	-2.3
-114	1.6	-1.6	2.4	-2.4
-113	1.6	-1.6	2.4	-2.4
-112	1.7	-1.7	2.5	-2.5
-111	1.7	-1.7	2.5	-2.5
-110	1.7	-1.7	2.6	-2.6
-109	1.8	-1.8	2.6	-2.6
-108	1.8	-1.8	2.7	-2.7
-107	1.8	-1.8	2.7	-2.7
-106	1.9	-1.9	2.8	-2.8
-105	1.9	-1.9	2.8	-2.8
-104	2.0	-1.9	2.9	-2.9
-103	2.0	-2.0	2.9	-2.9
-102	2.0	-2.0	3.0	-3.0
-101	2.1	-2.1	3.0	-3.0
-100	2.1	-2.1	3.1	-3.1
-99	2.2	-2.2	3.1	-3.1
-98	2.2	-2.2	3.2	-3.2
-97	2.2	-2.2	3.3	-3.3
-96	2.3	-2.3	3.3	-3.3
-95	2.3	-2.3	3.4	-3.4
-94	2.4	-2.4	3.5	-3.5
-93	2.4	-2.4	3.5	-3.5
-92	2.5	-2.5	3.6	-3.6
-91	2.6	-2.6	3.7	-3.7
-90	2.6	-2.6	3.8	-3.8
-89	2.7	-2.7	3.9	-3.9
-88	2.7	-2.7	3.9	-3.9
-87	2.8	-2.8	4.0	-4.0
-86	2.9	-2.9	4.1	-4.1
-85	2.9	-2.9	4.2	-4.2
-84	3.0	-3.0	4.3	-4.3
-83	3.1	-3.1	4.4	-4.4
-82	3.2	-3.2	4.5	-4.5
-81	3.2	-3.2	4.6	-4.6
-80	3.3	-3.3	4.7	-4.7
-79	3.4	-3.4	4.8	-4.8
-78	3.5	-3.5	4.9	-4.9

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-77	3.6	-3.6	5.0	-5.0
-76	3.7	-3.7	5.2	-5.2
-75	3.8	-3.8	5.3	-5.3
-74	3.9	-3.9	5.4	-5.4
-73	4.0	-4.0	5.6	-5.6
-72	4.1	-4.1	5.7	-5.7
-71	4.2	-4.2	5.8	-5.8
-70	4.4	-4.4	6.0	-6.0
-69	4.5	-4.5	6.2	-6.1
-68	4.6	-4.6	6.3	-6.3
-67	4.8	-4.8	6.5	-6.5
-66	4.9	-4.9	6.6	-6.6
-65	5.1	-5.1	6.8	-6.8
-64	5.2	-5.2	7.0	-7.0
-63	5.4	-5.4	7.2	-7.2
-62	5.6	-5.6	7.4	-7.4
-61	5.7	-5.7	7.6	-7.6
-60	5.9	-5.9	7.8	-7.8
-59	6.1	-6.1	8.0	-8.0
-58	6.4	-6.4	8.3	-8.3
-57	6.6	-6.6	8.5	-8.5
-56	6.8	-6.8	8.8	-8.7
-55	7.1	-7.1	9.0	-9.0
-54	7.3	-7.3	9.3	-9.3
-53	7.6	-7.6	9.6	-9.5
-52	7.9	-7.9	9.8	-9.8
-51	8.2	-8.2	10.1	-10.1
-50	8.6	-8.6	10.4	-10.4
-49	8.9	-8.9	10.8	-10.7
-48	9.3	-9.3	11.1	-11.0
-47	9.7	-9.7	11.4	-11.4
-46	10.1	-10.1	11.8	-11.7
-45	10.6	-10.6	12.1	-12.1
-44	11.1	-11.0	12.5	-12.4
-43	11.6	-11.6	12.9	-12.8
-42	12.1	-12.1	13.3	-13.2
-41	12.7	-12.7	13.7	-13.6
-40	13.3	-13.3	14.1	-13.9
-39	14.0	-14.0	14.5	-14.3
-38	14.7	-14.7	14.9	-14.7
-37	15.5	-15.5	15.3	-15.1
-36	16.4	-16.4	15.8	-15.5
-35	17.3	-17.3	16.2	-15.9
-34	18.3	-18.3	16.6	-16.3

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-33	19.4		-19.3		17.1		-16.7	
-32	20.5		-20.5		17.5		-17.0	
-31	21.8		-21.8		17.9		-17.3	
-30	23.2		-23.2		18.2		-17.6	
-29	24.7		-24.7		18.5		-17.9	
-28	26.4		-26.3		18.8		-18.0	
-27	28.2		-28.1		19.1		-18.1	
-26	30.2		-30.1		19.2		-18.1	
-25	32.4		-32.3		19.3		-18.0	
-24	34.8		-34.7		19.3		-17.8	
-23	37.5		-37.3		19.1		-17.4	
-22	40.4		-40.3		18.8		-16.8	
-21	43.7		-43.5		18.3		-15.9	
-20	47.4		-47.0		17.6		-14.9	
-19	51.5		-50.9		16.6		-13.5	
-18	56.0		-55.1		15.3		-11.8	
-17	61.0		-59.7		13.7		-9.7	
-16	66.5		-64.6		11.8		-7.1	
-15	72.6		-69.7		9.4		-4.2	
-14	79.2		-74.9		6.5		-0.7	
-13	86.4		-79.8		3.1		3.3	
-12	94.0		-83.8		-0.9		7.8	
-11	101.7		-86.1		-5.4		12.8	
-10	109.2		-85.1		-10.5		18.3	
-9	115.6		-78.6		-16.1		24.3	
-8	119.8		-63.7		-22.3		30.5	
-7	119.7		-37.0		-28.9		37.0	
-6	112.4		4.6		-35.7		43.5	
-5	94.0		62.7		-42.8		49.9	
-4	59.6		136.0		-49.7		56.1	
-3	4.1		218.6		-56.4		61.8	
-2	-75.5		300.6		-62.5		66.9	
-1	-177.8		369.0		-67.8		71.1	
0	-292.8		411.4		-72.1		74.4	
1	-389.0		421.1		-75.3		76.7	
2	-376.5		399.0		-77.2		78.0	
3	-289.2		353.2		-77.8		78.1	
4	-204.2		294.5		-77.1		77.3	
5	-135.7		233.1		-75.3		75.5	
6	-84.2		176.0		-72.4		72.9	
7	-47.0		127.0		-68.8		69.6	
8	-21.0		87.2		-64.5		65.7	
9	-3.1		56.3		-59.8		61.5	
10	8.9		33.0		-54.9		57.0	

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
11	16.8		15.9		-49.9		52.4	
12	21.7		3.6		-45.0		47.7	
13	24.7		-5.0		-40.2		43.2	
14	26.2		-11.0		-35.7		38.8	
15	26.9		-15.0		-31.4		34.6	
16	26.9		-17.5		-27.5		30.6	
17	26.5		-19.1		-23.8		26.9	
18	25.8		-19.9		-20.5		23.5	
19	25.0		-20.2		-17.5		20.4	
20	24.0		-20.2		-14.8		17.5	
21	23.1		-19.9		-12.4		14.9	
22	22.0		-19.5		-10.2		12.6	
23	21.1		-18.9		-8.3		10.5	
24	20.1		-18.3		-6.6		8.6	
25	19.1		-17.7		-5.1		7.0	
26	18.2		-17.0		-3.7		5.5	
27	17.4		-16.3		-2.6		4.2	
28	16.6		-15.7		-1.5		3.0	
29	15.8		-15.0		-0.6		2.0	
30	15.1		-14.4		0.1		1.1	
31	14.4		-13.8		0.8		0.3	
32	13.7		-13.2		1.4		-0.4	
33	13.1		-12.7		1.9		-1.0	
34	12.5		-12.2		2.3		-1.5	
35	12.0		-11.7		2.7		-1.9	
36	11.5		-11.2		3.0		-2.3	
37	11.0		-10.7		3.3		-2.7	
38	10.5		-10.3		3.5		-3.0	
39	10.1		-9.9		3.7		-3.2	
40	9.7		-9.5		3.9		-3.4	
41	9.3		-9.2		4.0		-3.6	
42	8.9		-8.8		4.1		-3.7	
43	8.6		-8.5		4.2		-3.8	
44	8.3		-8.2		4.3		-3.9	
45	8.0		-7.9		4.3		-4.0	
46	7.7		-7.6		4.4		-4.1	
47	7.4		-7.3		4.4		-4.1	
48	7.1		-7.1		4.4		-4.1	
49	6.9		-6.8		4.4		-4.2	
50	6.7		-6.6		4.4		-4.2	
51	6.4		-6.4		4.4		-4.2	
52	6.2		-6.2		4.3		-4.1	
53	6.0		-6.0		4.3		-4.1	
54	5.8		-5.8		4.3		-4.1	

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
55	5.6	-5.6	4.2	-4.1
56	5.4	-5.4	4.2	-4.0
57	5.3	-5.2	4.1	-4.0
58	5.1	-5.1	4.1	-4.0
59	5.0	-4.9	4.0	-3.9
60	4.8	-4.8	4.0	-3.9
61	4.7	-4.6	3.9	-3.8
62	4.5	-4.5	3.9	-3.8
63	4.4	-4.4	3.8	-3.7
64	4.3	-4.3	3.8	-3.7
65	4.2	-4.1	3.7	-3.6
66	4.0	-4.0	3.7	-3.6
67	3.9	-3.9	3.6	-3.5
68	3.8	-3.8	3.6	-3.5
69	3.7	-3.7	3.5	-3.4
70	3.6	-3.6	3.4	-3.4
71	3.5	-3.5	3.4	-3.3
72	3.5	-3.4	3.3	-3.3
73	3.4	-3.4	3.3	-3.2
74	3.3	-3.3	3.2	-3.2
75	3.2	-3.2	3.2	-3.1
76	3.1	-3.1	3.1	-3.1
77	3.0	-3.0	3.1	-3.0
78	3.0	-3.0	3.0	-3.0
79	2.9	-2.9	3.0	-2.9
80	2.8	-2.8	2.9	-2.9
81	2.8	-2.8	2.9	-2.9
82	2.7	-2.7	2.8	-2.8
83	2.6	-2.6	2.8	-2.8
84	2.6	-2.6	2.7	-2.7
85	2.5	-2.5	2.7	-2.7
86	2.5	-2.5	2.7	-2.6
87	2.4	-2.4	2.6	-2.6
88	2.4	-2.4	2.6	-2.6
89	2.3	-2.3	2.5	-2.5
90	2.3	-2.3	2.5	-2.5
91	2.2	-2.2	2.5	-2.4
92	2.2	-2.2	2.4	-2.4
93	2.1	-2.1	2.4	-2.4
94	2.1	-2.1	2.3	-2.3
95	2.1	-2.0	2.3	-2.3
96	2.0	-2.0	2.3	-2.3
97	2.0	-2.0	2.2	-2.2
98	1.9	-1.9	2.2	-2.2

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
99	1.9		-1.9		2.2		-2.2	
100	1.9		-1.9		2.1		-2.1	
101	1.8		-1.8		2.1		-2.1	
102	1.8		-1.8		2.1		-2.1	
103	1.8		-1.8		2.0		-2.0	
104	1.7		-1.7		2.0		-2.0	
105	1.7		-1.7		2.0		-2.0	
106	1.7		-1.7		1.9		-1.9	
107	1.6		-1.6		1.9		-1.9	
108	1.6		-1.6		1.9		-1.9	
109	1.6		-1.6		1.9		-1.9	
110	1.6		-1.6		1.8		-1.8	
111	1.5		-1.5		1.8		-1.8	
112	1.5		-1.5		1.8		-1.8	
113	1.5		-1.5		1.8		-1.8	
114	1.4		-1.4		1.7		-1.7	
115	1.4		-1.4		1.7		-1.7	
116	1.4		-1.4		1.7		-1.7	
117	1.4		-1.4		1.7		-1.7	
118	1.4		-1.4		1.6		-1.6	
119	1.3		-1.3		1.6		-1.6	
120	1.3		-1.3		1.6		-1.6	
121	1.3		-1.3		1.6		-1.6	
122	1.3		-1.3		1.6		-1.5	
123	1.3		-1.3		1.5		-1.5	
124	1.2		-1.2		1.5		-1.5	
125	1.2		-1.2		1.5		-1.5	
126	1.2		-1.2		1.5		-1.5	
127	1.2		-1.2		1.5		-1.4	
128	1.2		-1.2		1.4		-1.4	
129	1.1		-1.1		1.4		-1.4	
130	1.1		-1.1		1.4		-1.4	
131	1.1		-1.1		1.4		-1.4	
132	1.1		-1.1		1.4		-1.4	
133	1.1		-1.1		1.3		-1.3	
134	1.1		-1.1		1.3		-1.3	
135	1.0		-1.0		1.3		-1.3	
136	1.0		-1.0		1.3		-1.3	
137	1.0		-1.0		1.3		-1.3	
138	1.0		-1.0		1.3		-1.3	
139	1.0		-1.0		1.2		-1.2	
140	1.0		-1.0		1.2		-1.2	
141	1.0		-1.0		1.2		-1.2	
142	0.9		-0.9		1.2		-1.2	

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
143	0.9		-0.9		1.2		-1.2	
144	0.9		-0.9		1.2		-1.2	
145	0.9		-0.9		1.2		-1.2	
146	0.9		-0.9		1.1		-1.1	
147	0.9		-0.9		1.1		-1.1	
148	0.9		-0.9		1.1		-1.1	
149	0.9		-0.9		1.1		-1.1	
150	0.9		-0.9		1.1		-1.1	
151	0.8		-0.8		1.1		-1.1	
152	0.8		-0.8		1.1		-1.1	
153	0.8		-0.8		1.1		-1.1	
154	0.8		-0.8		1.0		-1.0	
155	0.8		-0.8		1.0		-1.0	
156	0.8		-0.8		1.0		-1.0	
157	0.8		-0.8		1.0		-1.0	
158	0.8		-0.8		1.0		-1.0	
159	0.8		-0.8		1.0		-1.0	
160	0.8		-0.8		1.0		-1.0	
161	0.7		-0.7		1.0		-1.0	
162	0.7		-0.7		1.0		-0.9	
163	0.7		-0.7		0.9		-0.9	
164	0.7		-0.7		0.9		-0.9	
165	0.7		-0.7		0.9		-0.9	
166	0.7		-0.7		0.9		-0.9	
167	0.7		-0.7		0.9		-0.9	
168	0.7		-0.7		0.9		-0.9	
169	0.7		-0.7		0.9		-0.9	
170	0.7		-0.7		0.9		-0.9	
171	0.7		-0.7		0.9		-0.9	
172	0.7		-0.7		0.9		-0.9	
173	0.6		-0.6		0.8		-0.8	
174	0.6		-0.6		0.8		-0.8	
175	0.6		-0.6		0.8		-0.8	
176	0.6		-0.6		0.8		-0.8	
177	0.6		-0.6		0.8		-0.8	
178	0.6		-0.6		0.8		-0.8	
179	0.6		-0.6		0.8		-0.8	
180	0.6		-0.6		0.8		-0.8	
181	0.6		-0.6		0.8		-0.8	
182	0.6		-0.6		0.8		-0.8	
183	0.6		-0.6		0.8		-0.8	
184	0.6		-0.6		0.8		-0.8	
185	0.6		-0.6		0.7		-0.7	
186	0.6		-0.6		0.7		-0.7	

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
187	0.6		-0.6		0.7		-0.7	
188	0.5		-0.5		0.7		-0.7	
189	0.5		-0.5		0.7		-0.7	
190	0.5		-0.5		0.7		-0.7	
191	0.5		-0.5		0.7		-0.7	
192	0.5		-0.5		0.7		-0.7	
193	0.5		-0.5		0.7		-0.7	
194	0.5		-0.5		0.7		-0.7	
195	0.5		-0.5		0.7		-0.7	
196	0.5		-0.5		0.7		-0.7	
197	0.5		-0.5		0.7		-0.7	
198	0.5		-0.5		0.7		-0.7	
199	0.5		-0.5		0.7		-0.7	
200	0.5		-0.5		0.6		-0.6	
201	0.5		-0.5		0.6		-0.6	
202	0.5		-0.5		0.6		-0.6	
203	0.5		-0.5		0.6		-0.6	
204	0.5		-0.5		0.6		-0.6	
205	0.5		-0.5		0.6		-0.6	
206	0.5		-0.5		0.6		-0.6	
207	0.5		-0.5		0.6		-0.6	
208	0.5		-0.5		0.6		-0.6	
209	0.4		-0.4		0.6		-0.6	
210	0.4		-0.4		0.6		-0.6	
211	0.4		-0.4		0.6		-0.6	
212	0.4		-0.4		0.6		-0.6	
213	0.4		-0.4		0.6		-0.6	
214	0.4		-0.4		0.6		-0.6	
215	0.4		-0.4		0.6		-0.6	
216	0.4		-0.4		0.6		-0.6	
217	0.4		-0.4		0.6		-0.6	
218	0.4		-0.4		0.6		-0.6	
219	0.4		-0.4		0.5		-0.5	
220	0.4		-0.4		0.5		-0.5	
221	0.4		-0.4		0.5		-0.5	
222	0.4		-0.4		0.5		-0.5	
223	0.4		-0.4		0.5		-0.5	
224	0.4		-0.4		0.5		-0.5	
225	0.4		-0.4		0.5		-0.5	
226	0.4		-0.4		0.5		-0.5	
227	0.4		-0.4		0.5		-0.5	
228	0.4		-0.4		0.5		-0.5	
229	0.4		-0.4		0.5		-0.5	
230	0.4		-0.4		0.5		-0.5	

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Table E-7 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
231	0.4		-0.4		0.5		-0.5	
232	0.4		-0.4		0.5		-0.5	
233	0.4		-0.4		0.5		-0.5	
234	0.4		-0.4		0.5		-0.5	
235	0.4		-0.4		0.5		-0.5	
236	0.4		-0.4		0.5		-0.5	
237	0.3		-0.3		0.5		-0.5	
238	0.3		-0.3		0.5		-0.5	
239	0.3		-0.3		0.5		-0.5	
240	0.3		-0.3		0.5		-0.5	
241	0.3		-0.3		0.5		-0.5	
242	0.3		-0.3		0.5		-0.5	
243	0.3		-0.3		0.5		-0.5	
244	0.3		-0.3		0.4		-0.4	
245	0.3		-0.3		0.4		-0.4	
246	0.3		-0.3		0.4		-0.4	
247	0.3		-0.3		0.4		-0.4	
248	0.3		-0.3		0.4		-0.4	
249	0.3		-0.3		0.4		-0.4	
250	0.3		-0.3		0.4		-0.4	

Table E-8. Calculated differences between the Earth's DC magnetic field and the DC magnetic field around the Onshore Transmission Cable for cable orientation 75° north of east and for duct bank and direct bury configurations

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-250	0.3	-0.3	0.5	-0.5
-249	0.3	-0.3	0.5	-0.5
-248	0.3	-0.3	0.5	-0.5
-247	0.3	-0.3	0.5	-0.5
-246	0.3	-0.3	0.5	-0.5
-245	0.3	-0.3	0.5	-0.5
-244	0.3	-0.3	0.5	-0.5
-243	0.3	-0.3	0.5	-0.5
-242	0.3	-0.3	0.5	-0.5
-241	0.4	-0.4	0.5	-0.5
-240	0.4	-0.4	0.5	-0.5
-239	0.4	-0.4	0.5	-0.5
-238	0.4	-0.4	0.5	-0.5
-237	0.4	-0.4	0.5	-0.5
-236	0.4	-0.4	0.5	-0.5
-235	0.4	-0.4	0.5	-0.5
-234	0.4	-0.4	0.5	-0.5
-233	0.4	-0.4	0.5	-0.5
-232	0.4	-0.4	0.6	-0.6
-231	0.4	-0.4	0.6	-0.6
-230	0.4	-0.4	0.6	-0.6
-229	0.4	-0.4	0.6	-0.6
-228	0.4	-0.4	0.6	-0.6
-227	0.4	-0.4	0.6	-0.6
-226	0.4	-0.4	0.6	-0.6
-225	0.4	-0.4	0.6	-0.6
-224	0.4	-0.4	0.6	-0.6
-223	0.4	-0.4	0.6	-0.6
-222	0.4	-0.4	0.6	-0.6
-221	0.4	-0.4	0.6	-0.6
-220	0.4	-0.4	0.6	-0.6
-219	0.4	-0.4	0.6	-0.6
-218	0.4	-0.4	0.6	-0.6
-217	0.4	-0.4	0.6	-0.6
-216	0.4	-0.4	0.6	-0.6
-215	0.4	-0.4	0.6	-0.6
-214	0.4	-0.4	0.7	-0.6
-213	0.4	-0.4	0.7	-0.7
-212	0.5	-0.5	0.7	-0.7
-211	0.5	-0.5	0.7	-0.7
-210	0.5	-0.5	0.7	-0.7

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-209	0.5		-0.5		0.7		-0.7	
-208	0.5		-0.5		0.7		-0.7	
-207	0.5		-0.5		0.7		-0.7	
-206	0.5		-0.5		0.7		-0.7	
-205	0.5		-0.5		0.7		-0.7	
-204	0.5		-0.5		0.7		-0.7	
-203	0.5		-0.5		0.7		-0.7	
-202	0.5		-0.5		0.7		-0.7	
-201	0.5		-0.5		0.7		-0.7	
-200	0.5		-0.5		0.7		-0.7	
-199	0.5		-0.5		0.8		-0.8	
-198	0.5		-0.5		0.8		-0.8	
-197	0.5		-0.5		0.8		-0.8	
-196	0.5		-0.5		0.8		-0.8	
-195	0.5		-0.5		0.8		-0.8	
-194	0.5		-0.5		0.8		-0.8	
-193	0.5		-0.5		0.8		-0.8	
-192	0.6		-0.6		0.8		-0.8	
-191	0.6		-0.6		0.8		-0.8	
-190	0.6		-0.6		0.8		-0.8	
-189	0.6		-0.6		0.8		-0.8	
-188	0.6		-0.6		0.8		-0.8	
-187	0.6		-0.6		0.8		-0.8	
-186	0.6		-0.6		0.9		-0.9	
-185	0.6		-0.6		0.9		-0.9	
-184	0.6		-0.6		0.9		-0.9	
-183	0.6		-0.6		0.9		-0.9	
-182	0.6		-0.6		0.9		-0.9	
-181	0.6		-0.6		0.9		-0.9	
-180	0.6		-0.6		0.9		-0.9	
-179	0.6		-0.6		0.9		-0.9	
-178	0.6		-0.6		0.9		-0.9	
-177	0.7		-0.7		0.9		-0.9	
-176	0.7		-0.7		1.0		-1.0	
-175	0.7		-0.7		1.0		-1.0	
-174	0.7		-0.7		1.0		-1.0	
-173	0.7		-0.7		1.0		-1.0	
-172	0.7		-0.7		1.0		-1.0	
-171	0.7		-0.7		1.0		-1.0	
-170	0.7		-0.7		1.0		-1.0	
-169	0.7		-0.7		1.0		-1.0	
-168	0.7		-0.7		1.0		-1.0	
-167	0.7		-0.7		1.1		-1.1	
-166	0.7		-0.7		1.1		-1.1	

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-165	0.8		-0.8		1.1		-1.1	
-164	0.8		-0.8		1.1		-1.1	
-163	0.8		-0.8		1.1		-1.1	
-162	0.8		-0.8		1.1		-1.1	
-161	0.8		-0.8		1.1		-1.1	
-160	0.8		-0.8		1.2		-1.2	
-159	0.8		-0.8		1.2		-1.2	
-158	0.8		-0.8		1.2		-1.2	
-157	0.8		-0.8		1.2		-1.2	
-156	0.8		-0.8		1.2		-1.2	
-155	0.9		-0.9		1.2		-1.2	
-154	0.9		-0.9		1.2		-1.2	
-153	0.9		-0.9		1.3		-1.3	
-152	0.9		-0.9		1.3		-1.3	
-151	0.9		-0.9		1.3		-1.3	
-150	0.9		-0.9		1.3		-1.3	
-149	0.9		-0.9		1.3		-1.3	
-148	0.9		-0.9		1.3		-1.3	
-147	0.9		-0.9		1.4		-1.4	
-146	1.0		-1.0		1.4		-1.4	
-145	1.0		-1.0		1.4		-1.4	
-144	1.0		-1.0		1.4		-1.4	
-143	1.0		-1.0		1.4		-1.4	
-142	1.0		-1.0		1.5		-1.5	
-141	1.0		-1.0		1.5		-1.5	
-140	1.0		-1.0		1.5		-1.5	
-139	1.1		-1.1		1.5		-1.5	
-138	1.1		-1.1		1.5		-1.5	
-137	1.1		-1.1		1.6		-1.6	
-136	1.1		-1.1		1.6		-1.6	
-135	1.1		-1.1		1.6		-1.6	
-134	1.1		-1.1		1.6		-1.6	
-133	1.2		-1.2		1.7		-1.7	
-132	1.2		-1.2		1.7		-1.7	
-131	1.2		-1.2		1.7		-1.7	
-130	1.2		-1.2		1.7		-1.7	
-129	1.2		-1.2		1.8		-1.8	
-128	1.2		-1.2		1.8		-1.8	
-127	1.3		-1.3		1.8		-1.8	
-126	1.3		-1.3		1.8		-1.8	
-125	1.3		-1.3		1.9		-1.9	
-124	1.3		-1.3		1.9		-1.9	
-123	1.4		-1.4		1.9		-1.9	
-122	1.4		-1.4		2.0		-2.0	

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-121	1.4		-1.4		2.0		-2.0	
-120	1.4		-1.4		2.0		-2.0	
-119	1.4		-1.4		2.1		-2.0	
-118	1.5		-1.5		2.1		-2.1	
-117	1.5		-1.5		2.1		-2.1	
-116	1.5		-1.5		2.2		-2.2	
-115	1.5		-1.5		2.2		-2.2	
-114	1.6		-1.6		2.2		-2.2	
-113	1.6		-1.6		2.3		-2.3	
-112	1.6		-1.6		2.3		-2.3	
-111	1.7		-1.7		2.3		-2.3	
-110	1.7		-1.7		2.4		-2.4	
-109	1.7		-1.7		2.4		-2.4	
-108	1.8		-1.8		2.5		-2.5	
-107	1.8		-1.8		2.5		-2.5	
-106	1.8		-1.8		2.6		-2.6	
-105	1.9		-1.9		2.6		-2.6	
-104	1.9		-1.9		2.6		-2.6	
-103	1.9		-1.9		2.7		-2.7	
-102	2.0		-2.0		2.7		-2.7	
-101	2.0		-2.0		2.8		-2.8	
-100	2.0		-2.0		2.8		-2.8	
-99	2.1		-2.1		2.9		-2.9	
-98	2.1		-2.1		3.0		-3.0	
-97	2.2		-2.2		3.0		-3.0	
-96	2.2		-2.2		3.1		-3.1	
-95	2.3		-2.3		3.1		-3.1	
-94	2.3		-2.3		3.2		-3.2	
-93	2.4		-2.4		3.3		-3.2	
-92	2.4		-2.4		3.3		-3.3	
-91	2.5		-2.5		3.4		-3.4	
-90	2.5		-2.5		3.5		-3.4	
-89	2.6		-2.6		3.5		-3.5	
-88	2.6		-2.6		3.6		-3.6	
-87	2.7		-2.7		3.7		-3.7	
-86	2.8		-2.8		3.7		-3.7	
-85	2.8		-2.8		3.8		-3.8	
-84	2.9		-2.9		3.9		-3.9	
-83	3.0		-3.0		4.0		-4.0	
-82	3.0		-3.0		4.1		-4.1	
-81	3.1		-3.1		4.2		-4.2	
-80	3.2		-3.2		4.3		-4.3	
-79	3.3		-3.3		4.4		-4.3	
-78	3.4		-3.4		4.5		-4.4	

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-77	3.5	-3.5	4.6	-4.5
-76	3.5	-3.5	4.7	-4.7
-75	3.6	-3.6	4.8	-4.8
-74	3.7	-3.7	4.9	-4.9
-73	3.8	-3.8	5.0	-5.0
-72	3.9	-3.9	5.1	-5.1
-71	4.1	-4.1	5.2	-5.2
-70	4.2	-4.2	5.4	-5.3
-69	4.3	-4.3	5.5	-5.5
-68	4.4	-4.4	5.6	-5.6
-67	4.6	-4.5	5.8	-5.7
-66	4.7	-4.7	5.9	-5.9
-65	4.8	-4.8	6.1	-6.0
-64	5.0	-5.0	6.2	-6.2
-63	5.1	-5.1	6.4	-6.3
-62	5.3	-5.3	6.5	-6.5
-61	5.5	-5.5	6.7	-6.7
-60	5.7	-5.7	6.9	-6.8
-59	5.9	-5.8	7.0	-7.0
-58	6.1	-6.0	7.2	-7.2
-57	6.3	-6.3	7.4	-7.4
-56	6.5	-6.5	7.6	-7.6
-55	6.7	-6.7	7.8	-7.8
-54	7.0	-6.9	8.0	-8.0
-53	7.2	-7.2	8.2	-8.2
-52	7.5	-7.5	8.5	-8.4
-51	7.8	-7.8	8.7	-8.6
-50	8.1	-8.1	8.9	-8.8
-49	8.4	-8.4	9.2	-9.1
-48	8.8	-8.7	9.4	-9.3
-47	9.1	-9.1	9.7	-9.5
-46	9.5	-9.5	9.9	-9.8
-45	9.9	-9.9	10.2	-10.0
-44	10.4	-10.3	10.5	-10.3
-43	10.8	-10.8	10.7	-10.5
-42	11.3	-11.3	11.0	-10.8
-41	11.9	-11.8	11.3	-11.0
-40	12.4	-12.4	11.6	-11.3
-39	13.0	-13.0	11.8	-11.5
-38	13.7	-13.6	12.1	-11.8
-37	14.4	-14.3	12.4	-12.0
-36	15.2	-15.1	12.6	-12.2
-35	16.0	-15.9	12.9	-12.4
-34	16.9	-16.7	13.1	-12.6

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-33	17.8		-17.7		13.3		-12.7	
-32	18.8		-18.7		13.5		-12.8	
-31	20.0		-19.8		13.7		-12.9	
-30	21.2		-21.0		13.8		-12.9	
-29	22.5		-22.3		13.8		-12.8	
-28	23.9		-23.7		13.8		-12.7	
-27	25.5		-25.2		13.8		-12.5	
-26	27.2		-26.8		13.6		-12.1	
-25	29.1		-28.6		13.3		-11.7	
-24	31.2		-30.6		12.9		-11.1	
-23	33.4		-32.7		12.4		-10.3	
-22	35.9		-35.0		11.7		-9.3	
-21	38.7		-37.5		10.8		-8.1	
-20	41.7		-40.2		9.7		-6.6	
-19	45.0		-43.0		8.3		-4.8	
-18	48.6		-46.1		6.6		-2.7	
-17	52.6		-49.2		4.6		-0.3	
-16	56.9		-52.4		2.3		2.5	
-15	61.5		-55.4		-0.5		5.8	
-14	66.5		-58.1		-3.7		9.4	
-13	71.6		-60.0		-7.4		13.5	
-12	76.8		-60.4		-11.5		18.1	
-11	81.7		-58.5		-16.1		23.0	
-10	85.8		-52.8		-21.2		28.2	
-9	88.3		-41.3		-26.6		33.8	
-8	87.8		-21.7		-32.5		39.5	
-7	82.6		8.8		-38.5		45.3	
-6	69.7		52.3		-44.6		51.0	
-5	45.8		109.6		-50.6		56.4	
-4	6.7		178.9		-56.4		61.5	
-3	-50.9		254.4		-61.6		65.9	
-2	-127.4		326.2		-66.1		69.7	
-1	-215.6		382.2		-69.7		72.5	
0	-292.8		411.4		-72.1		74.4	
1	-313.3		408.4		-73.4		75.3	
2	-263.5		375.5		-73.5		75.2	
3	-189.5		321.7		-72.4		74.1	
4	-121.2		258.1		-70.1		72.1	
5	-67.1		194.6		-66.9		69.2	
6	-27.6		137.6		-63.0		65.7	
7	-0.3		90.4		-58.5		61.6	
8	17.7		53.4		-53.6		57.1	
9	29.0		25.9		-48.5		52.4	
10	35.6		6.1		-43.4		47.6	

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
11	39.2		-7.6		-38.4		42.8	
12	40.6		-16.7		-33.6		38.1	
13	40.7		-22.6		-29.1		33.5	
14	39.9		-26.1		-24.8		29.2	
15	38.6		-28.0		-20.9		25.2	
16	37.0		-28.8		-17.4		21.5	
17	35.3		-28.9		-14.2		18.0	
18	33.5		-28.4		-11.3		14.9	
19	31.7		-27.7		-8.8		12.1	
20	30.0		-26.7		-6.5		9.6	
21	28.3		-25.7		-4.5		7.4	
22	26.7		-24.6		-2.8		5.4	
23	25.2		-23.5		-1.3		3.7	
24	23.8		-22.4		0		2.2	
25	22.5		-21.3		1.1		0.8	
26	21.2		-20.2		2.1		-0.3	
27	20.1		-19.3		2.9		-1.3	
28	19.0		-18.3		3.6		-2.2	
29	18.0		-17.4		4.2		-2.9	
30	17.1		-16.6		4.7		-3.5	
31	16.2		-15.8		5.1		-4.0	
32	15.4		-15.0		5.4		-4.5	
33	14.7		-14.3		5.7		-4.8	
34	14.0		-13.7		5.9		-5.1	
35	13.3		-13.1		6.1		-5.4	
36	12.7		-12.5		6.2		-5.6	
37	12.1		-11.9		6.3		-5.7	
38	11.6		-11.4		6.4		-5.9	
39	11.1		-10.9		6.4		-6.0	
40	10.6		-10.5		6.4		-6.0	
41	10.2		-10.0		6.4		-6.0	
42	9.7		-9.6		6.4		-6.1	
43	9.3		-9.2		6.4		-6.1	
44	9.0		-8.9		6.3		-6.0	
45	8.6		-8.5		6.3		-6.0	
46	8.3		-8.2		6.2		-6.0	
47	8.0		-7.9		6.1		-5.9	
48	7.7		-7.6		6.1		-5.8	
49	7.4		-7.3		6.0		-5.8	
50	7.1		-7.1		5.9		-5.7	
51	6.9		-6.8		5.8		-5.6	
52	6.6		-6.6		5.7		-5.6	
53	6.4		-6.4		5.6		-5.5	
54	6.2		-6.2		5.5		-5.4	

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
55	6.0	-6.0	5.4	-5.3
56	5.8	-5.8	5.3	-5.2
57	5.6	-5.6	5.2	-5.1
58	5.4	-5.4	5.1	-5.0
59	5.3	-5.2	5.0	-5.0
60	5.1	-5.1	4.9	-4.9
61	4.9	-4.9	4.9	-4.8
62	4.8	-4.8	4.8	-4.7
63	4.7	-4.6	4.7	-4.6
64	4.5	-4.5	4.6	-4.5
65	4.4	-4.4	4.5	-4.4
66	4.3	-4.2	4.4	-4.4
67	4.1	-4.1	4.3	-4.3
68	4.0	-4.0	4.2	-4.2
69	3.9	-3.9	4.2	-4.1
70	3.8	-3.8	4.1	-4.0
71	3.7	-3.7	4.0	-4.0
72	3.6	-3.6	3.9	-3.9
73	3.5	-3.5	3.9	-3.8
74	3.4	-3.4	3.8	-3.7
75	3.3	-3.3	3.7	-3.7
76	3.3	-3.3	3.6	-3.6
77	3.2	-3.2	3.6	-3.5
78	3.1	-3.1	3.5	-3.5
79	3.0	-3.0	3.4	-3.4
80	3.0	-3.0	3.4	-3.4
81	2.9	-2.9	3.3	-3.3
82	2.8	-2.8	3.2	-3.2
83	2.8	-2.8	3.2	-3.2
84	2.7	-2.7	3.1	-3.1
85	2.6	-2.6	3.1	-3.1
86	2.6	-2.6	3.0	-3.0
87	2.5	-2.5	3.0	-3.0
88	2.5	-2.5	2.9	-2.9
89	2.4	-2.4	2.9	-2.8
90	2.4	-2.4	2.8	-2.8
91	2.3	-2.3	2.8	-2.8
92	2.3	-2.3	2.7	-2.7
93	2.2	-2.2	2.7	-2.7
94	2.2	-2.2	2.6	-2.6
95	2.1	-2.1	2.6	-2.6
96	2.1	-2.1	2.5	-2.5
97	2.0	-2.0	2.5	-2.5
98	2.0	-2.0	2.4	-2.4

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
99	2.0		-2.0		2.4		-2.4	
100	1.9		-1.9		2.4		-2.4	
101	1.9		-1.9		2.3		-2.3	
102	1.9		-1.8		2.3		-2.3	
103	1.8		-1.8		2.3		-2.2	
104	1.8		-1.8		2.2		-2.2	
105	1.8		-1.7		2.2		-2.2	
106	1.7		-1.7		2.1		-2.1	
107	1.7		-1.7		2.1		-2.1	
108	1.7		-1.7		2.1		-2.1	
109	1.6		-1.6		2.0		-2.0	
110	1.6		-1.6		2.0		-2.0	
111	1.6		-1.6		2.0		-2.0	
112	1.5		-1.5		2.0		-2.0	
113	1.5		-1.5		1.9		-1.9	
114	1.5		-1.5		1.9		-1.9	
115	1.5		-1.5		1.9		-1.9	
116	1.4		-1.4		1.8		-1.8	
117	1.4		-1.4		1.8		-1.8	
118	1.4		-1.4		1.8		-1.8	
119	1.4		-1.4		1.8		-1.8	
120	1.3		-1.3		1.7		-1.7	
121	1.3		-1.3		1.7		-1.7	
122	1.3		-1.3		1.7		-1.7	
123	1.3		-1.3		1.7		-1.7	
124	1.3		-1.3		1.6		-1.6	
125	1.2		-1.2		1.6		-1.6	
126	1.2		-1.2		1.6		-1.6	
127	1.2		-1.2		1.6		-1.6	
128	1.2		-1.2		1.5		-1.5	
129	1.2		-1.2		1.5		-1.5	
130	1.2		-1.2		1.5		-1.5	
131	1.1		-1.1		1.5		-1.5	
132	1.1		-1.1		1.5		-1.5	
133	1.1		-1.1		1.4		-1.4	
134	1.1		-1.1		1.4		-1.4	
135	1.1		-1.1		1.4		-1.4	
136	1.1		-1.1		1.4		-1.4	
137	1.0		-1.0		1.4		-1.4	
138	1.0		-1.0		1.4		-1.4	
139	1.0		-1.0		1.3		-1.3	
140	1.0		-1.0		1.3		-1.3	
141	1.0		-1.0		1.3		-1.3	
142	1.0		-1.0		1.3		-1.3	

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
143	1.0		-1.0		1.3		-1.3	
144	0.9		-0.9		1.3		-1.3	
145	0.9		-0.9		1.2		-1.2	
146	0.9		-0.9		1.2		-1.2	
147	0.9		-0.9		1.2		-1.2	
148	0.9		-0.9		1.2		-1.2	
149	0.9		-0.9		1.2		-1.2	
150	0.9		-0.9		1.2		-1.2	
151	0.9		-0.9		1.1		-1.1	
152	0.8		-0.8		1.1		-1.1	
153	0.8		-0.8		1.1		-1.1	
154	0.8		-0.8		1.1		-1.1	
155	0.8		-0.8		1.1		-1.1	
156	0.8		-0.8		1.1		-1.1	
157	0.8		-0.8		1.1		-1.1	
158	0.8		-0.8		1.1		-1.1	
159	0.8		-0.8		1.0		-1.0	
160	0.8		-0.8		1.0		-1.0	
161	0.8		-0.8		1.0		-1.0	
162	0.7		-0.7		1.0		-1.0	
163	0.7		-0.7		1.0		-1.0	
164	0.7		-0.7		1.0		-1.0	
165	0.7		-0.7		1.0		-1.0	
166	0.7		-0.7		1.0		-1.0	
167	0.7		-0.7		1.0		-1.0	
168	0.7		-0.7		0.9		-0.9	
169	0.7		-0.7		0.9		-0.9	
170	0.7		-0.7		0.9		-0.9	
171	0.7		-0.7		0.9		-0.9	
172	0.7		-0.7		0.9		-0.9	
173	0.7		-0.7		0.9		-0.9	
174	0.7		-0.7		0.9		-0.9	
175	0.6		-0.6		0.9		-0.9	
176	0.6		-0.6		0.9		-0.9	
177	0.6		-0.6		0.9		-0.9	
178	0.6		-0.6		0.8		-0.8	
179	0.6		-0.6		0.8		-0.8	
180	0.6		-0.6		0.8		-0.8	
181	0.6		-0.6		0.8		-0.8	
182	0.6		-0.6		0.8		-0.8	
183	0.6		-0.6		0.8		-0.8	
184	0.6		-0.6		0.8		-0.8	
185	0.6		-0.6		0.8		-0.8	
186	0.6		-0.6		0.8		-0.8	

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
187	0.6		-0.6		0.8		-0.8	
188	0.6		-0.6		0.8		-0.8	
189	0.6		-0.6		0.8		-0.8	
190	0.5		-0.5		0.7		-0.7	
191	0.5		-0.5		0.7		-0.7	
192	0.5		-0.5		0.7		-0.7	
193	0.5		-0.5		0.7		-0.7	
194	0.5		-0.5		0.7		-0.7	
195	0.5		-0.5		0.7		-0.7	
196	0.5		-0.5		0.7		-0.7	
197	0.5		-0.5		0.7		-0.7	
198	0.5		-0.5		0.7		-0.7	
199	0.5		-0.5		0.7		-0.7	
200	0.5		-0.5		0.7		-0.7	
201	0.5		-0.5		0.7		-0.7	
202	0.5		-0.5		0.7		-0.7	
203	0.5		-0.5		0.7		-0.7	
204	0.5		-0.5		0.7		-0.7	
205	0.5		-0.5		0.6		-0.6	
206	0.5		-0.5		0.6		-0.6	
207	0.5		-0.5		0.6		-0.6	
208	0.5		-0.5		0.6		-0.6	
209	0.5		-0.5		0.6		-0.6	
210	0.4		-0.4		0.6		-0.6	
211	0.4		-0.4		0.6		-0.6	
212	0.4		-0.4		0.6		-0.6	
213	0.4		-0.4		0.6		-0.6	
214	0.4		-0.4		0.6		-0.6	
215	0.4		-0.4		0.6		-0.6	
216	0.4		-0.4		0.6		-0.6	
217	0.4		-0.4		0.6		-0.6	
218	0.4		-0.4		0.6		-0.6	
219	0.4		-0.4		0.6		-0.6	
220	0.4		-0.4		0.6		-0.6	
221	0.4		-0.4		0.6		-0.6	
222	0.4		-0.4		0.6		-0.6	
223	0.4		-0.4		0.6		-0.6	
224	0.4		-0.4		0.5		-0.5	
225	0.4		-0.4		0.5		-0.5	
226	0.4		-0.4		0.5		-0.5	
227	0.4		-0.4		0.5		-0.5	
228	0.4		-0.4		0.5		-0.5	
229	0.4		-0.4		0.5		-0.5	
230	0.4		-0.4		0.5		-0.5	

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Table E-8 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
231	0.4		-0.4		0.5		-0.5	
232	0.4		-0.4		0.5		-0.5	
233	0.4		-0.4		0.5		-0.5	
234	0.4		-0.4		0.5		-0.5	
235	0.4		-0.4		0.5		-0.5	
236	0.4		-0.4		0.5		-0.5	
237	0.4		-0.4		0.5		-0.5	
238	0.4		-0.4		0.5		-0.5	
239	0.3		-0.3		0.5		-0.5	
240	0.3		-0.3		0.5		-0.5	
241	0.3		-0.3		0.5		-0.5	
242	0.3		-0.3		0.5		-0.5	
243	0.3		-0.3		0.5		-0.5	
244	0.3		-0.3		0.5		-0.5	
245	0.3		-0.3		0.5		-0.5	
246	0.3		-0.3		0.5		-0.5	
247	0.3		-0.3		0.5		-0.5	
248	0.3		-0.3		0.5		-0.5	
249	0.3		-0.3		0.4		-0.4	
250	0.3		-0.3		0.4		-0.4	

Table E-9. Calculated differences between the Earth's DC magnetic field and the DC magnetic field around the Onshore Transmission Cable for cable orientation 110° north of east and for duct bank and direct bury configurations

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-250	0.3	-0.3	0.5	-0.5
-249	0.3	-0.3	0.5	-0.5
-248	0.3	-0.3	0.5	-0.5
-247	0.3	-0.3	0.5	-0.5
-246	0.3	-0.3	0.5	-0.5
-245	0.3	-0.3	0.5	-0.5
-244	0.3	-0.3	0.5	-0.5
-243	0.3	-0.3	0.5	-0.5
-242	0.3	-0.3	0.5	-0.5
-241	0.3	-0.3	0.5	-0.5
-240	0.3	-0.3	0.5	-0.5
-239	0.4	-0.4	0.5	-0.5
-238	0.4	-0.4	0.5	-0.5
-237	0.4	-0.4	0.5	-0.5
-236	0.4	-0.4	0.5	-0.5
-235	0.4	-0.4	0.5	-0.5
-234	0.4	-0.4	0.5	-0.5
-233	0.4	-0.4	0.5	-0.5
-232	0.4	-0.4	0.5	-0.5
-231	0.4	-0.4	0.5	-0.5
-230	0.4	-0.4	0.5	-0.5
-229	0.4	-0.4	0.5	-0.5
-228	0.4	-0.4	0.5	-0.5
-227	0.4	-0.4	0.6	-0.6
-226	0.4	-0.4	0.6	-0.6
-225	0.4	-0.4	0.6	-0.6
-224	0.4	-0.4	0.6	-0.6
-223	0.4	-0.4	0.6	-0.6
-222	0.4	-0.4	0.6	-0.6
-221	0.4	-0.4	0.6	-0.6
-220	0.4	-0.4	0.6	-0.6
-219	0.4	-0.4	0.6	-0.6
-218	0.4	-0.4	0.6	-0.6
-217	0.4	-0.4	0.6	-0.6
-216	0.4	-0.4	0.6	-0.6
-215	0.4	-0.4	0.6	-0.6
-214	0.4	-0.4	0.6	-0.6
-213	0.4	-0.4	0.6	-0.6
-212	0.4	-0.4	0.6	-0.6
-211	0.4	-0.4	0.6	-0.6
-210	0.5	-0.5	0.6	-0.6

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-209	0.5		-0.5		0.6		-0.6	
-208	0.5		-0.5		0.7		-0.7	
-207	0.5		-0.5		0.7		-0.7	
-206	0.5		-0.5		0.7		-0.7	
-205	0.5		-0.5		0.7		-0.7	
-204	0.5		-0.5		0.7		-0.7	
-203	0.5		-0.5		0.7		-0.7	
-202	0.5		-0.5		0.7		-0.7	
-201	0.5		-0.5		0.7		-0.7	
-200	0.5		-0.5		0.7		-0.7	
-199	0.5		-0.5		0.7		-0.7	
-198	0.5		-0.5		0.7		-0.7	
-197	0.5		-0.5		0.7		-0.7	
-196	0.5		-0.5		0.7		-0.7	
-195	0.5		-0.5		0.7		-0.7	
-194	0.5		-0.5		0.7		-0.7	
-193	0.5		-0.5		0.8		-0.8	
-192	0.5		-0.5		0.8		-0.8	
-191	0.5		-0.5		0.8		-0.8	
-190	0.6		-0.6		0.8		-0.8	
-189	0.6		-0.6		0.8		-0.8	
-188	0.6		-0.6		0.8		-0.8	
-187	0.6		-0.6		0.8		-0.8	
-186	0.6		-0.6		0.8		-0.8	
-185	0.6		-0.6		0.8		-0.8	
-184	0.6		-0.6		0.8		-0.8	
-183	0.6		-0.6		0.8		-0.8	
-182	0.6		-0.6		0.8		-0.8	
-181	0.6		-0.6		0.9		-0.9	
-180	0.6		-0.6		0.9		-0.9	
-179	0.6		-0.6		0.9		-0.9	
-178	0.6		-0.6		0.9		-0.9	
-177	0.6		-0.6		0.9		-0.9	
-176	0.6		-0.6		0.9		-0.9	
-175	0.7		-0.7		0.9		-0.9	
-174	0.7		-0.7		0.9		-0.9	
-173	0.7		-0.7		0.9		-0.9	
-172	0.7		-0.7		0.9		-0.9	
-171	0.7		-0.7		1.0		-1.0	
-170	0.7		-0.7		1.0		-1.0	
-169	0.7		-0.7		1.0		-1.0	
-168	0.7		-0.7		1.0		-1.0	
-167	0.7		-0.7		1.0		-1.0	
-166	0.7		-0.7		1.0		-1.0	

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-165	0.7		-0.7		1.0		-1.0	
-164	0.7		-0.7		1.0		-1.0	
-163	0.8		-0.8		1.0		-1.0	
-162	0.8		-0.8		1.1		-1.1	
-161	0.8		-0.8		1.1		-1.1	
-160	0.8		-0.8		1.1		-1.1	
-159	0.8		-0.8		1.1		-1.1	
-158	0.8		-0.8		1.1		-1.1	
-157	0.8		-0.8		1.1		-1.1	
-156	0.8		-0.8		1.1		-1.1	
-155	0.8		-0.8		1.1		-1.1	
-154	0.8		-0.8		1.2		-1.2	
-153	0.9		-0.9		1.2		-1.2	
-152	0.9		-0.9		1.2		-1.2	
-151	0.9		-0.9		1.2		-1.2	
-150	0.9		-0.9		1.2		-1.2	
-149	0.9		-0.9		1.2		-1.2	
-148	0.9		-0.9		1.3		-1.3	
-147	0.9		-0.9		1.3		-1.3	
-146	0.9		-0.9		1.3		-1.3	
-145	0.9		-0.9		1.3		-1.3	
-144	1.0		-1.0		1.3		-1.3	
-143	1.0		-1.0		1.3		-1.3	
-142	1.0		-1.0		1.4		-1.4	
-141	1.0		-1.0		1.4		-1.4	
-140	1.0		-1.0		1.4		-1.4	
-139	1.0		-1.0		1.4		-1.4	
-138	1.0		-1.0		1.4		-1.4	
-137	1.1		-1.1		1.4		-1.4	
-136	1.1		-1.1		1.5		-1.5	
-135	1.1		-1.1		1.5		-1.5	
-134	1.1		-1.1		1.5		-1.5	
-133	1.1		-1.1		1.5		-1.5	
-132	1.1		-1.1		1.5		-1.5	
-131	1.2		-1.2		1.6		-1.6	
-130	1.2		-1.2		1.6		-1.6	
-129	1.2		-1.2		1.6		-1.6	
-128	1.2		-1.2		1.6		-1.6	
-127	1.2		-1.2		1.7		-1.7	
-126	1.3		-1.3		1.7		-1.7	
-125	1.3		-1.3		1.7		-1.7	
-124	1.3		-1.3		1.7		-1.7	
-123	1.3		-1.3		1.8		-1.8	
-122	1.3		-1.3		1.8		-1.8	

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-121	1.4		-1.4		1.8		-1.8	
-120	1.4		-1.4		1.8		-1.8	
-119	1.4		-1.4		1.9		-1.9	
-118	1.4		-1.4		1.9		-1.9	
-117	1.4		-1.4		1.9		-1.9	
-116	1.5		-1.5		2.0		-2.0	
-115	1.5		-1.5		2.0		-2.0	
-114	1.5		-1.5		2.0		-2.0	
-113	1.6		-1.6		2.1		-2.1	
-112	1.6		-1.6		2.1		-2.1	
-111	1.6		-1.6		2.1		-2.1	
-110	1.6		-1.6		2.2		-2.2	
-109	1.7		-1.7		2.2		-2.2	
-108	1.7		-1.7		2.2		-2.2	
-107	1.7		-1.7		2.3		-2.3	
-106	1.8		-1.8		2.3		-2.3	
-105	1.8		-1.8		2.3		-2.3	
-104	1.8		-1.8		2.4		-2.4	
-103	1.9		-1.9		2.4		-2.4	
-102	1.9		-1.9		2.5		-2.5	
-101	1.9		-1.9		2.5		-2.5	
-100	2.0		-2.0		2.6		-2.5	
-99	2.0		-2.0		2.6		-2.6	
-98	2.1		-2.1		2.6		-2.6	
-97	2.1		-2.1		2.7		-2.7	
-96	2.1		-2.1		2.7		-2.7	
-95	2.2		-2.2		2.8		-2.8	
-94	2.2		-2.2		2.8		-2.8	
-93	2.3		-2.3		2.9		-2.9	
-92	2.3		-2.3		2.9		-2.9	
-91	2.4		-2.4		3.0		-3.0	
-90	2.4		-2.4		3.1		-3.1	
-89	2.5		-2.5		3.1		-3.1	
-88	2.5		-2.5		3.2		-3.2	
-87	2.6		-2.6		3.2		-3.2	
-86	2.7		-2.6		3.3		-3.3	
-85	2.7		-2.7		3.4		-3.4	
-84	2.8		-2.8		3.4		-3.4	
-83	2.8		-2.8		3.5		-3.5	
-82	2.9		-2.9		3.6		-3.6	
-81	3.0		-3.0		3.6		-3.6	
-80	3.1		-3.0		3.7		-3.7	
-79	3.1		-3.1		3.8		-3.8	
-78	3.2		-3.2		3.9		-3.9	

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-77	3.3	-3.3	4.0	-3.9
-76	3.4	-3.4	4.0	-4.0
-75	3.5	-3.5	4.1	-4.1
-74	3.6	-3.5	4.2	-4.2
-73	3.6	-3.6	4.3	-4.3
-72	3.7	-3.7	4.4	-4.4
-71	3.8	-3.8	4.5	-4.4
-70	4.0	-3.9	4.6	-4.5
-69	4.1	-4.1	4.7	-4.6
-68	4.2	-4.2	4.8	-4.7
-67	4.3	-4.3	4.9	-4.8
-66	4.4	-4.4	5.0	-4.9
-65	4.6	-4.5	5.1	-5.1
-64	4.7	-4.7	5.2	-5.2
-63	4.8	-4.8	5.3	-5.3
-62	5.0	-5.0	5.4	-5.4
-61	5.2	-5.1	5.6	-5.5
-60	5.3	-5.3	5.7	-5.6
-59	5.5	-5.5	5.8	-5.7
-58	5.7	-5.7	5.9	-5.9
-57	5.9	-5.8	6.1	-6.0
-56	6.1	-6.0	6.2	-6.1
-55	6.3	-6.2	6.4	-6.3
-54	6.5	-6.5	6.5	-6.4
-53	6.7	-6.7	6.6	-6.5
-52	7.0	-6.9	6.8	-6.7
-51	7.2	-7.2	6.9	-6.8
-50	7.5	-7.5	7.1	-6.9
-49	7.8	-7.7	7.2	-7.1
-48	8.1	-8.1	7.4	-7.2
-47	8.4	-8.4	7.5	-7.3
-46	8.8	-8.7	7.7	-7.4
-45	9.1	-9.1	7.8	-7.6
-44	9.5	-9.4	7.9	-7.7
-43	9.9	-9.8	8.1	-7.8
-42	10.4	-10.3	8.2	-7.9
-41	10.8	-10.7	8.3	-8.0
-40	11.3	-11.2	8.4	-8.1
-39	11.8	-11.7	8.5	-8.1
-38	12.4	-12.3	8.6	-8.1
-37	13.0	-12.9	8.7	-8.2
-36	13.7	-13.5	8.7	-8.2
-35	14.3	-14.2	8.7	-8.1
-34	15.1	-14.9	8.7	-8.0

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-33	15.9		-15.6		8.7		-7.9	
-32	16.8		-16.5		8.6		-7.7	
-31	17.7		-17.3		8.4		-7.4	
-30	18.7		-18.3		8.2		-7.1	
-29	19.8		-19.3		8.0		-6.7	
-28	20.9		-20.4		7.6		-6.2	
-27	22.2		-21.5		7.1		-5.6	
-26	23.6		-22.8		6.6		-4.9	
-25	25.1		-24.1		5.9		-4.0	
-24	26.7		-25.5		5.1		-2.9	
-23	28.4		-27.0		4.1		-1.7	
-22	30.3		-28.6		2.9		-0.2	
-21	32.3		-30.2		1.5		1.5	
-20	34.5		-31.9		-0.2		3.4	
-19	36.9		-33.6		-2.1		5.6	
-18	39.4		-35.2		-4.3		8.2	
-17	42.1		-36.7		-6.8		11.0	
-16	44.8		-37.8		-9.7		14.2	
-15	47.6		-38.5		-12.9		17.7	
-14	50.4		-38.3		-16.5		21.6	
-13	52.9		-36.7		-20.5		25.9	
-12	54.9		-33.2		-24.9		30.4	
-11	56.0		-26.7		-29.6		35.2	
-10	55.6		-15.9		-34.7		40.2	
-9	52.7		0.9		-39.9		45.3	
-8	45.9		25.6		-45.3		50.4	
-7	33.3		60.1		-50.6		55.3	
-6	12.3		105.9		-55.8		60.0	
-5	-20.2		162.9		-60.5		64.3	
-4	-67.1		228.4		-64.7		68.0	
-3	-129.7		296.3		-68.2		70.9	
-2	-203.4		356.7		-70.6		73.1	
-1	-270.6		398.3		-72.0		74.3	
0	-292.8		411.4		-72.1		74.4	
1	-249.1		392.5		-71.1		73.6	
2	-173.5		345.7		-68.9		71.8	
3	-99.0		281.2		-65.7		69.1	
4	-38.7		210.7		-61.7		65.6	
5	5.0		143.9		-56.9		61.4	
6	34.1		86.8		-51.6		56.7	
7	51.9		41.9		-46.1		51.7	
8	61.6		8.8		-40.5		46.4	
9	66.0		-14.1		-35.0		41.1	
10	66.9		-29.1		-29.7		35.8	

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
11	65.6		-38.1		-24.6		30.7	
12	63.0		-43.0		-20.0		25.9	
13	59.8		-45.1		-15.7		21.4	
14	56.3		-45.4		-11.8		17.2	
15	52.8		-44.6		-8.3		13.4	
16	49.3		-43.1		-5.3		10.0	
17	45.9		-41.2		-2.6		6.9	
18	42.8		-39.2		-0.3		4.2	
19	39.9		-37.0		1.8		1.8	
20	37.2		-34.9		3.5		-0.2	
21	34.7		-32.9		4.9		-2.0	
22	32.4		-30.9		6.1		-3.5	
23	30.3		-29.1		7.1		-4.8	
24	28.3		-27.4		8.0		-5.9	
25	26.5		-25.8		8.6		-6.8	
26	24.9		-24.3		9.2		-7.5	
27	23.4		-22.9		9.6		-8.1	
28	22.0		-21.6		9.9		-8.6	
29	20.8		-20.4		10.1		-9.0	
30	19.6		-19.3		10.3		-9.2	
31	18.5		-18.2		10.4		-9.4	
32	17.5		-17.3		10.4		-9.6	
33	16.6		-16.4		10.4		-9.7	
34	15.7		-15.6		10.3		-9.7	
35	14.9		-14.8		10.3		-9.7	
36	14.2		-14.1		10.2		-9.6	
37	13.5		-13.4		10.0		-9.6	
38	12.9		-12.8		9.9		-9.5	
39	12.3		-12.2		9.7		-9.4	
40	11.7		-11.6		9.6		-9.2	
41	11.2		-11.1		9.4		-9.1	
42	10.7		-10.6		9.2		-9.0	
43	10.3		-10.2		9.0		-8.8	
44	9.8		-9.8		8.9		-8.6	
45	9.4		-9.4		8.7		-8.5	
46	9.0		-9.0		8.5		-8.3	
47	8.7		-8.6		8.3		-8.1	
48	8.3		-8.3		8.1		-8.0	
49	8.0		-8.0		7.9		-7.8	
50	7.7		-7.7		7.8		-7.6	
51	7.4		-7.4		7.6		-7.5	
52	7.2		-7.1		7.4		-7.3	
53	6.9		-6.9		7.2		-7.1	
54	6.7		-6.6		7.1		-7.0	

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
55	6.4		-6.4		6.9		-6.8	
56	6.2		-6.2		6.7		-6.7	
57	6.0		-6.0		6.6		-6.5	
58	5.8		-5.8		6.4		-6.4	
59	5.6		-5.6		6.3		-6.2	
60	5.4		-5.4		6.1		-6.1	
61	5.3		-5.3		6.0		-5.9	
62	5.1		-5.1		5.8		-5.8	
63	5.0		-4.9		5.7		-5.7	
64	4.8		-4.8		5.6		-5.5	
65	4.7		-4.7		5.4		-5.4	
66	4.5		-4.5		5.3		-5.3	
67	4.4		-4.4		5.2		-5.2	
68	4.3		-4.3		5.1		-5.1	
69	4.1		-4.1		5.0		-4.9	
70	4.0		-4.0		4.9		-4.8	
71	3.9		-3.9		4.8		-4.7	
72	3.8		-3.8		4.7		-4.6	
73	3.7		-3.7		4.6		-4.5	
74	3.6		-3.6		4.5		-4.4	
75	3.5		-3.5		4.4		-4.3	
76	3.4		-3.4		4.3		-4.2	
77	3.3		-3.3		4.2		-4.2	
78	3.3		-3.3		4.1		-4.1	
79	3.2		-3.2		4.0		-4.0	
80	3.1		-3.1		3.9		-3.9	
81	3.0		-3.0		3.8		-3.8	
82	3.0		-3.0		3.8		-3.7	
83	2.9		-2.9		3.7		-3.7	
84	2.8		-2.8		3.6		-3.6	
85	2.8		-2.8		3.5		-3.5	
86	2.7		-2.7		3.5		-3.5	
87	2.6		-2.6		3.4		-3.4	
88	2.6		-2.6		3.3		-3.3	
89	2.5		-2.5		3.3		-3.3	
90	2.5		-2.5		3.2		-3.2	
91	2.4		-2.4		3.1		-3.1	
92	2.4		-2.4		3.1		-3.1	
93	2.3		-2.3		3.0		-3.0	
94	2.3		-2.3		3.0		-3.0	
95	2.2		-2.2		2.9		-2.9	
96	2.2		-2.2		2.9		-2.9	
97	2.1		-2.1		2.8		-2.8	
98	2.1		-2.1		2.8		-2.8	

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
99	2.0		-2.0		2.7		-2.7	
100	2.0		-2.0		2.7		-2.7	
101	2.0		-2.0		2.6		-2.6	
102	1.9		-1.9		2.6		-2.6	
103	1.9		-1.9		2.5		-2.5	
104	1.9		-1.9		2.5		-2.5	
105	1.8		-1.8		2.4		-2.4	
106	1.8		-1.8		2.4		-2.4	
107	1.8		-1.7		2.4		-2.4	
108	1.7		-1.7		2.3		-2.3	
109	1.7		-1.7		2.3		-2.3	
110	1.7		-1.7		2.2		-2.2	
111	1.6		-1.6		2.2		-2.2	
112	1.6		-1.6		2.2		-2.2	
113	1.6		-1.6		2.1		-2.1	
114	1.5		-1.5		2.1		-2.1	
115	1.5		-1.5		2.1		-2.1	
116	1.5		-1.5		2.0		-2.0	
117	1.5		-1.5		2.0		-2.0	
118	1.4		-1.4		2.0		-2.0	
119	1.4		-1.4		1.9		-1.9	
120	1.4		-1.4		1.9		-1.9	
121	1.4		-1.4		1.9		-1.9	
122	1.3		-1.3		1.9		-1.8	
123	1.3		-1.3		1.8		-1.8	
124	1.3		-1.3		1.8		-1.8	
125	1.3		-1.3		1.8		-1.8	
126	1.3		-1.3		1.7		-1.7	
127	1.2		-1.2		1.7		-1.7	
128	1.2		-1.2		1.7		-1.7	
129	1.2		-1.2		1.7		-1.7	
130	1.2		-1.2		1.6		-1.6	
131	1.2		-1.2		1.6		-1.6	
132	1.2		-1.2		1.6		-1.6	
133	1.1		-1.1		1.6		-1.6	
134	1.1		-1.1		1.6		-1.6	
135	1.1		-1.1		1.5		-1.5	
136	1.1		-1.1		1.5		-1.5	
137	1.1		-1.1		1.5		-1.5	
138	1.1		-1.1		1.5		-1.5	
139	1.0		-1.0		1.4		-1.4	
140	1.0		-1.0		1.4		-1.4	
141	1.0		-1.0		1.4		-1.4	
142	1.0		-1.0		1.4		-1.4	

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
143	1.0		-1.0		1.4		-1.4	
144	1.0		-1.0		1.4		-1.4	
145	1.0		-1.0		1.3		-1.3	
146	0.9		-0.9		1.3		-1.3	
147	0.9		-0.9		1.3		-1.3	
148	0.9		-0.9		1.3		-1.3	
149	0.9		-0.9		1.3		-1.3	
150	0.9		-0.9		1.3		-1.3	
151	0.9		-0.9		1.2		-1.2	
152	0.9		-0.9		1.2		-1.2	
153	0.9		-0.9		1.2		-1.2	
154	0.8		-0.8		1.2		-1.2	
155	0.8		-0.8		1.2		-1.2	
156	0.8		-0.8		1.2		-1.2	
157	0.8		-0.8		1.1		-1.1	
158	0.8		-0.8		1.1		-1.1	
159	0.8		-0.8		1.1		-1.1	
160	0.8		-0.8		1.1		-1.1	
161	0.8		-0.8		1.1		-1.1	
162	0.8		-0.8		1.1		-1.1	
163	0.8		-0.8		1.1		-1.1	
164	0.7		-0.7		1.1		-1.1	
165	0.7		-0.7		1.0		-1.0	
166	0.7		-0.7		1.0		-1.0	
167	0.7		-0.7		1.0		-1.0	
168	0.7		-0.7		1.0		-1.0	
169	0.7		-0.7		1.0		-1.0	
170	0.7		-0.7		1.0		-1.0	
171	0.7		-0.7		1.0		-1.0	
172	0.7		-0.7		1.0		-1.0	
173	0.7		-0.7		1.0		-1.0	
174	0.7		-0.7		0.9		-0.9	
175	0.7		-0.7		0.9		-0.9	
176	0.7		-0.7		0.9		-0.9	
177	0.6		-0.6		0.9		-0.9	
178	0.6		-0.6		0.9		-0.9	
179	0.6		-0.6		0.9		-0.9	
180	0.6		-0.6		0.9		-0.9	
181	0.6		-0.6		0.9		-0.9	
182	0.6		-0.6		0.9		-0.9	
183	0.6		-0.6		0.9		-0.9	
184	0.6		-0.6		0.8		-0.8	
185	0.6		-0.6		0.8		-0.8	
186	0.6		-0.6		0.8		-0.8	

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
187	0.6		-0.6		0.8		-0.8	
188	0.6		-0.6		0.8		-0.8	
189	0.6		-0.6		0.8		-0.8	
190	0.6		-0.6		0.8		-0.8	
191	0.6		-0.6		0.8		-0.8	
192	0.5		-0.5		0.8		-0.8	
193	0.5		-0.5		0.8		-0.8	
194	0.5		-0.5		0.8		-0.8	
195	0.5		-0.5		0.8		-0.8	
196	0.5		-0.5		0.7		-0.7	
197	0.5		-0.5		0.7		-0.7	
198	0.5		-0.5		0.7		-0.7	
199	0.5		-0.5		0.7		-0.7	
200	0.5		-0.5		0.7		-0.7	
201	0.5		-0.5		0.7		-0.7	
202	0.5		-0.5		0.7		-0.7	
203	0.5		-0.5		0.7		-0.7	
204	0.5		-0.5		0.7		-0.7	
205	0.5		-0.5		0.7		-0.7	
206	0.5		-0.5		0.7		-0.7	
207	0.5		-0.5		0.7		-0.7	
208	0.5		-0.5		0.7		-0.7	
209	0.5		-0.5		0.7		-0.7	
210	0.5		-0.5		0.7		-0.7	
211	0.5		-0.5		0.6		-0.6	
212	0.4		-0.4		0.6		-0.6	
213	0.4		-0.4		0.6		-0.6	
214	0.4		-0.4		0.6		-0.6	
215	0.4		-0.4		0.6		-0.6	
216	0.4		-0.4		0.6		-0.6	
217	0.4		-0.4		0.6		-0.6	
218	0.4		-0.4		0.6		-0.6	
219	0.4		-0.4		0.6		-0.6	
220	0.4		-0.4		0.6		-0.6	
221	0.4		-0.4		0.6		-0.6	
222	0.4		-0.4		0.6		-0.6	
223	0.4		-0.4		0.6		-0.6	
224	0.4		-0.4		0.6		-0.6	
225	0.4		-0.4		0.6		-0.6	
226	0.4		-0.4		0.6		-0.6	
227	0.4		-0.4		0.6		-0.6	
228	0.4		-0.4		0.6		-0.6	
229	0.4		-0.4		0.6		-0.6	
230	0.4		-0.4		0.5		-0.5	

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Table E-9 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
231	0.4		-0.4		0.5		-0.5	
232	0.4		-0.4		0.5		-0.5	
233	0.4		-0.4		0.5		-0.5	
234	0.4		-0.4		0.5		-0.5	
235	0.4		-0.4		0.5		-0.5	
236	0.4		-0.4		0.5		-0.5	
237	0.4		-0.4		0.5		-0.5	
238	0.4		-0.4		0.5		-0.5	
239	0.4		-0.4		0.5		-0.5	
240	0.4		-0.4		0.5		-0.5	
241	0.3		-0.3		0.5		-0.5	
242	0.3		-0.3		0.5		-0.5	
243	0.3		-0.3		0.5		-0.5	
244	0.3		-0.3		0.5		-0.5	
245	0.3		-0.3		0.5		-0.5	
246	0.3		-0.3		0.5		-0.5	
247	0.3		-0.3		0.5		-0.5	
248	0.3		-0.3		0.5		-0.5	
249	0.3		-0.3		0.5		-0.5	
250	0.3		-0.3		0.5		-0.5	

Table E-10. Calculated differences between the Earths DC magnetic field and the DC magnetic field around the Onshore Transmission Cable for cable orientation 155° north of east and for duct bank and direct bury configurations

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-250	0.3	-0.3	0.4	-0.4
-249	0.3	-0.3	0.4	-0.4
-248	0.3	-0.3	0.4	-0.4
-247	0.3	-0.3	0.4	-0.4
-246	0.3	-0.3	0.4	-0.4
-245	0.3	-0.3	0.5	-0.5
-244	0.3	-0.3	0.5	-0.5
-243	0.3	-0.3	0.5	-0.5
-242	0.3	-0.3	0.5	-0.5
-241	0.3	-0.3	0.5	-0.5
-240	0.3	-0.3	0.5	-0.5
-239	0.3	-0.3	0.5	-0.5
-238	0.3	-0.3	0.5	-0.5
-237	0.4	-0.4	0.5	-0.5
-236	0.4	-0.4	0.5	-0.5
-235	0.4	-0.4	0.5	-0.5
-234	0.4	-0.4	0.5	-0.5
-233	0.4	-0.4	0.5	-0.5
-232	0.4	-0.4	0.5	-0.5
-231	0.4	-0.4	0.5	-0.5
-230	0.4	-0.4	0.5	-0.5
-229	0.4	-0.4	0.5	-0.5
-228	0.4	-0.4	0.5	-0.5
-227	0.4	-0.4	0.5	-0.5
-226	0.4	-0.4	0.5	-0.5
-225	0.4	-0.4	0.5	-0.5
-224	0.4	-0.4	0.5	-0.5
-223	0.4	-0.4	0.5	-0.5
-222	0.4	-0.4	0.5	-0.5
-221	0.4	-0.4	0.5	-0.5
-220	0.4	-0.4	0.6	-0.6
-219	0.4	-0.4	0.6	-0.6
-218	0.4	-0.4	0.6	-0.6
-217	0.4	-0.4	0.6	-0.6
-216	0.4	-0.4	0.6	-0.6
-215	0.4	-0.4	0.6	-0.6
-214	0.4	-0.4	0.6	-0.6
-213	0.4	-0.4	0.6	-0.6
-212	0.4	-0.4	0.6	-0.6
-211	0.4	-0.4	0.6	-0.6
-210	0.4	-0.4	0.6	-0.6

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-209	0.4		-0.4		0.6		-0.6	
-208	0.5		-0.5		0.6		-0.6	
-207	0.5		-0.5		0.6		-0.6	
-206	0.5		-0.5		0.6		-0.6	
-205	0.5		-0.5		0.6		-0.6	
-204	0.5		-0.5		0.6		-0.6	
-203	0.5		-0.5		0.6		-0.6	
-202	0.5		-0.5		0.6		-0.6	
-201	0.5		-0.5		0.7		-0.7	
-200	0.5		-0.5		0.7		-0.7	
-199	0.5		-0.5		0.7		-0.7	
-198	0.5		-0.5		0.7		-0.7	
-197	0.5		-0.5		0.7		-0.7	
-196	0.5		-0.5		0.7		-0.7	
-195	0.5		-0.5		0.7		-0.7	
-194	0.5		-0.5		0.7		-0.7	
-193	0.5		-0.5		0.7		-0.7	
-192	0.5		-0.5		0.7		-0.7	
-191	0.5		-0.5		0.7		-0.7	
-190	0.5		-0.5		0.7		-0.7	
-189	0.5		-0.5		0.7		-0.7	
-188	0.6		-0.6		0.7		-0.7	
-187	0.6		-0.6		0.7		-0.7	
-186	0.6		-0.6		0.8		-0.8	
-185	0.6		-0.6		0.8		-0.8	
-184	0.6		-0.6		0.8		-0.8	
-183	0.6		-0.6		0.8		-0.8	
-182	0.6		-0.6		0.8		-0.8	
-181	0.6		-0.6		0.8		-0.8	
-180	0.6		-0.6		0.8		-0.8	
-179	0.6		-0.6		0.8		-0.8	
-178	0.6		-0.6		0.8		-0.8	
-177	0.6		-0.6		0.8		-0.8	
-176	0.6		-0.6		0.8		-0.8	
-175	0.6		-0.6		0.8		-0.8	
-174	0.6		-0.6		0.9		-0.9	
-173	0.7		-0.7		0.9		-0.9	
-172	0.7		-0.7		0.9		-0.9	
-171	0.7		-0.7		0.9		-0.9	
-170	0.7		-0.7		0.9		-0.9	
-169	0.7		-0.7		0.9		-0.9	
-168	0.7		-0.7		0.9		-0.9	
-167	0.7		-0.7		0.9		-0.9	
-166	0.7		-0.7		0.9		-0.9	

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-165	0.7	-0.7	0.9	-0.9
-164	0.7	-0.7	1.0	-1.0
-163	0.7	-0.7	1.0	-1.0
-162	0.7	-0.7	1.0	-1.0
-161	0.7	-0.7	1.0	-1.0
-160	0.8	-0.8	1.0	-1.0
-159	0.8	-0.8	1.0	-1.0
-158	0.8	-0.8	1.0	-1.0
-157	0.8	-0.8	1.0	-1.0
-156	0.8	-0.8	1.0	-1.0
-155	0.8	-0.8	1.1	-1.1
-154	0.8	-0.8	1.1	-1.1
-153	0.8	-0.8	1.1	-1.1
-152	0.8	-0.8	1.1	-1.1
-151	0.8	-0.8	1.1	-1.1
-150	0.9	-0.9	1.1	-1.1
-149	0.9	-0.9	1.1	-1.1
-148	0.9	-0.9	1.1	-1.1
-147	0.9	-0.9	1.2	-1.2
-146	0.9	-0.9	1.2	-1.2
-145	0.9	-0.9	1.2	-1.2
-144	0.9	-0.9	1.2	-1.2
-143	0.9	-0.9	1.2	-1.2
-142	1.0	-1.0	1.2	-1.2
-141	1.0	-1.0	1.2	-1.2
-140	1.0	-1.0	1.3	-1.3
-139	1.0	-1.0	1.3	-1.3
-138	1.0	-1.0	1.3	-1.3
-137	1.0	-1.0	1.3	-1.3
-136	1.0	-1.0	1.3	-1.3
-135	1.1	-1.1	1.3	-1.3
-134	1.1	-1.1	1.4	-1.4
-133	1.1	-1.1	1.4	-1.4
-132	1.1	-1.1	1.4	-1.4
-131	1.1	-1.1	1.4	-1.4
-130	1.1	-1.1	1.4	-1.4
-129	1.2	-1.2	1.5	-1.5
-128	1.2	-1.2	1.5	-1.5
-127	1.2	-1.2	1.5	-1.5
-126	1.2	-1.2	1.5	-1.5
-125	1.2	-1.2	1.5	-1.5
-124	1.2	-1.2	1.6	-1.6
-123	1.3	-1.3	1.6	-1.6
-122	1.3	-1.3	1.6	-1.6

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-121	1.3	-1.3	1.6	-1.6
-120	1.3	-1.3	1.6	-1.6
-119	1.3	-1.3	1.7	-1.7
-118	1.4	-1.4	1.7	-1.7
-117	1.4	-1.4	1.7	-1.7
-116	1.4	-1.4	1.7	-1.7
-115	1.4	-1.4	1.8	-1.8
-114	1.5	-1.5	1.8	-1.8
-113	1.5	-1.5	1.8	-1.8
-112	1.5	-1.5	1.8	-1.8
-111	1.5	-1.5	1.9	-1.9
-110	1.6	-1.6	1.9	-1.9
-109	1.6	-1.6	1.9	-1.9
-108	1.6	-1.6	2.0	-2.0
-107	1.7	-1.7	2.0	-2.0
-106	1.7	-1.7	2.0	-2.0
-105	1.7	-1.7	2.1	-2.0
-104	1.7	-1.7	2.1	-2.1
-103	1.8	-1.8	2.1	-2.1
-102	1.8	-1.8	2.2	-2.1
-101	1.9	-1.8	2.2	-2.2
-100	1.9	-1.9	2.2	-2.2
-99	1.9	-1.9	2.3	-2.2
-98	2.0	-2.0	2.3	-2.3
-97	2.0	-2.0	2.3	-2.3
-96	2.0	-2.0	2.4	-2.4
-95	2.1	-2.1	2.4	-2.4
-94	2.1	-2.1	2.4	-2.4
-93	2.2	-2.2	2.5	-2.5
-92	2.2	-2.2	2.5	-2.5
-91	2.3	-2.3	2.6	-2.6
-90	2.3	-2.3	2.6	-2.6
-89	2.4	-2.4	2.7	-2.6
-88	2.4	-2.4	2.7	-2.7
-87	2.5	-2.5	2.7	-2.7
-86	2.5	-2.5	2.8	-2.8
-85	2.6	-2.6	2.8	-2.8
-84	2.6	-2.6	2.9	-2.9
-83	2.7	-2.7	2.9	-2.9
-82	2.8	-2.7	3.0	-3.0
-81	2.8	-2.8	3.0	-3.0
-80	2.9	-2.9	3.1	-3.1
-79	3.0	-2.9	3.2	-3.1
-78	3.0	-3.0	3.2	-3.2

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
-77	3.1	-3.1	3.3	-3.2
-76	3.2	-3.2	3.3	-3.3
-75	3.3	-3.2	3.4	-3.3
-74	3.3	-3.3	3.4	-3.4
-73	3.4	-3.4	3.5	-3.5
-72	3.5	-3.5	3.6	-3.5
-71	3.6	-3.6	3.6	-3.6
-70	3.7	-3.7	3.7	-3.6
-69	3.8	-3.8	3.7	-3.7
-68	3.9	-3.9	3.8	-3.8
-67	4.0	-4.0	3.9	-3.8
-66	4.1	-4.1	3.9	-3.9
-65	4.2	-4.2	4.0	-3.9
-64	4.4	-4.4	4.1	-4.0
-63	4.5	-4.5	4.1	-4.1
-62	4.6	-4.6	4.2	-4.1
-61	4.8	-4.8	4.3	-4.2
-60	4.9	-4.9	4.3	-4.3
-59	5.1	-5.0	4.4	-4.3
-58	5.2	-5.2	4.5	-4.4
-57	5.4	-5.4	4.5	-4.4
-56	5.6	-5.5	4.6	-4.5
-55	5.8	-5.7	4.7	-4.5
-54	6.0	-5.9	4.7	-4.6
-53	6.2	-6.1	4.8	-4.6
-52	6.4	-6.3	4.8	-4.7
-51	6.6	-6.5	4.9	-4.7
-50	6.8	-6.8	4.9	-4.7
-49	7.1	-7.0	5.0	-4.8
-48	7.3	-7.3	5.0	-4.8
-47	7.6	-7.5	5.0	-4.8
-46	7.9	-7.8	5.1	-4.8
-45	8.2	-8.1	5.1	-4.8
-44	8.5	-8.4	5.1	-4.7
-43	8.9	-8.8	5.0	-4.7
-42	9.2	-9.1	5.0	-4.6
-41	9.6	-9.5	4.9	-4.5
-40	10.0	-9.9	4.9	-4.4
-39	10.5	-10.3	4.8	-4.2
-38	10.9	-10.7	4.6	-4.1
-37	11.4	-11.2	4.5	-3.8
-36	11.9	-11.7	4.3	-3.6
-35	12.5	-12.2	4.0	-3.2
-34	13.1	-12.7	3.7	-2.9

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
-33	13.7		-13.3		3.4		-2.4	
-32	14.4		-13.9		2.9		-1.9	
-31	15.1		-14.6		2.4		-1.3	
-30	15.8		-15.2		1.9		-0.6	
-29	16.6		-15.9		1.2		0.2	
-28	17.5		-16.7		0.4		1.1	
-27	18.4		-17.4		-0.5		2.1	
-26	19.4		-18.2		-1.5		3.3	
-25	20.4		-19.0		-2.7		4.7	
-24	21.5		-19.8		-4.1		6.2	
-23	22.6		-20.6		-5.6		7.9	
-22	23.8		-21.4		-7.4		9.9	
-21	25.0		-22.1		-9.4		12.1	
-20	26.3		-22.7		-11.7		14.5	
-19	27.5		-23.0		-14.2		17.3	
-18	28.7		-23.1		-17.0		20.3	
-17	29.8		-22.8		-20.2		23.6	
-16	30.8		-21.8		-23.6		27.2	
-15	31.4		-19.9		-27.4		31.0	
-14	31.5		-16.6		-31.6		35.2	
-13	30.8		-11.6		-36.0		39.6	
-12	28.9		-4.0		-40.7		44.1	
-11	25.3		7.1		-45.5		48.8	
-10	19.2		23.0		-50.5		53.5	
-9	9.3		45.0		-55.5		58.1	
-8	-6.0		74.7		-60.3		62.5	
-7	-28.8		113.4		-64.8		66.6	
-6	-61.9		161.8		-68.8		70.2	
-5	-108.4		218.8		-72.1		73.1	
-4	-170.4		281.0		-74.5		75.3	
-3	-247.0		341.4		-75.7		76.6	
-2	-325.3		390.2		-75.8		76.9	
-1	-355.8		416.3		-74.6		76.2	
0	-292.8		411.4		-72.1		74.4	
1	-191.5		374.0		-68.5		71.7	
2	-94.3		310.4		-63.8		67.9	
3	-16.0		232.3		-58.3		63.4	
4	40.2		152.5		-52.2		58.1	
5	76.3		80.9		-45.7		52.4	
6	96.6		23.1		-39.1		46.3	
7	105.9		-19.2		-32.5		40.1	
8	107.9		-47.4		-26.1		33.9	
9	105.4		-64.1		-20.1		27.9	
10	100.4		-72.6		-14.5		22.1	

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
11	94.2	-75.5	-9.4	16.7
12	87.5	-74.8	-4.9	11.7
13	80.8	-72.2	-0.9	7.2
14	74.4	-68.5	2.6	3.2
15	68.4	-64.3	5.7	-0.4
16	62.9	-59.9	8.2	-3.5
17	57.8	-55.7	10.3	-6.1
18	53.2	-51.7	12.1	-8.3
19	49.0	-47.9	13.5	-10.2
20	45.2	-44.4	14.6	-11.7
21	41.8	-41.2	15.5	-13.0
22	38.7	-38.3	16.1	-13.9
23	36.0	-35.6	16.6	-14.7
24	33.4	-33.1	16.9	-15.2
25	31.1	-30.9	17.1	-15.6
26	29.1	-28.9	17.1	-15.9
27	27.2	-27.0	17.1	-16.0
28	25.4	-25.3	16.9	-16.0
29	23.9	-23.8	16.8	-16.0
30	22.4	-22.3	16.5	-15.8
31	21.1	-21.0	16.3	-15.7
32	19.9	-19.8	16.0	-15.4
33	18.8	-18.7	15.6	-15.2
34	17.7	-17.7	15.3	-14.9
35	16.8	-16.7	14.9	-14.6
36	15.9	-15.9	14.6	-14.3
37	15.1	-15.1	14.2	-14.0
38	14.3	-14.3	13.9	-13.6
39	13.6	-13.6	13.5	-13.3
40	13.0	-13.0	13.1	-12.9
41	12.4	-12.4	12.8	-12.6
42	11.8	-11.8	12.4	-12.3
43	11.3	-11.3	12.1	-11.9
44	10.8	-10.8	11.7	-11.6
45	10.3	-10.3	11.4	-11.3
46	9.9	-9.9	11.1	-11.0
47	9.5	-9.5	10.8	-10.7
48	9.1	-9.1	10.4	-10.4
49	8.7	-8.7	10.2	-10.1
50	8.4	-8.4	9.9	-9.8
51	8.1	-8.1	9.6	-9.5
52	7.8	-7.8	9.3	-9.3
53	7.5	-7.5	9.1	-9.0
54	7.2	-7.2	8.8	-8.8

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)	Duct Bank (+ on right)	Direct Bury (+ on left)	Direct Bury (+ on right)
	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)	Magnetic Field Maximum (mG)
55	6.9	-6.9	8.6	-8.5
56	6.7	-6.7	8.3	-8.3
57	6.5	-6.5	8.1	-8.1
58	6.2	-6.2	7.9	-7.9
59	6.0	-6.0	7.7	-7.6
60	5.8	-5.8	7.5	-7.4
61	5.6	-5.6	7.3	-7.2
62	5.5	-5.5	7.1	-7.1
63	5.3	-5.3	6.9	-6.9
64	5.1	-5.1	6.7	-6.7
65	5.0	-5.0	6.5	-6.5
66	4.8	-4.8	6.4	-6.4
67	4.7	-4.7	6.2	-6.2
68	4.5	-4.5	6.1	-6.0
69	4.4	-4.4	5.9	-5.9
70	4.3	-4.3	5.8	-5.7
71	4.2	-4.2	5.6	-5.6
72	4.0	-4.0	5.5	-5.5
73	3.9	-3.9	5.3	-5.3
74	3.8	-3.8	5.2	-5.2
75	3.7	-3.7	5.1	-5.1
76	3.6	-3.6	5.0	-5.0
77	3.5	-3.5	4.9	-4.9
78	3.4	-3.4	4.8	-4.7
79	3.4	-3.4	4.6	-4.6
80	3.3	-3.3	4.5	-4.5
81	3.2	-3.2	4.4	-4.4
82	3.1	-3.1	4.3	-4.3
83	3.0	-3.0	4.2	-4.2
84	3.0	-3.0	4.2	-4.1
85	2.9	-2.9	4.1	-4.1
86	2.8	-2.8	4.0	-4.0
87	2.8	-2.8	3.9	-3.9
88	2.7	-2.7	3.8	-3.8
89	2.6	-2.6	3.7	-3.7
90	2.6	-2.6	3.7	-3.7
91	2.5	-2.5	3.6	-3.6
92	2.5	-2.5	3.5	-3.5
93	2.4	-2.4	3.4	-3.4
94	2.4	-2.4	3.4	-3.4
95	2.3	-2.3	3.3	-3.3
96	2.3	-2.3	3.2	-3.2
97	2.2	-2.2	3.2	-3.2
98	2.2	-2.2	3.1	-3.1

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
99	2.1		-2.1		3.1		-3.1	
100	2.1		-2.1		3.0		-3.0	
101	2.0		-2.0		2.9		-2.9	
102	2.0		-2.0		2.9		-2.9	
103	2.0		-2.0		2.8		-2.8	
104	1.9		-1.9		2.8		-2.8	
105	1.9		-1.9		2.7		-2.7	
106	1.9		-1.9		2.7		-2.7	
107	1.8		-1.8		2.6		-2.6	
108	1.8		-1.8		2.6		-2.6	
109	1.8		-1.8		2.5		-2.5	
110	1.7		-1.7		2.5		-2.5	
111	1.7		-1.7		2.5		-2.4	
112	1.7		-1.7		2.4		-2.4	
113	1.6		-1.6		2.4		-2.4	
114	1.6		-1.6		2.3		-2.3	
115	1.6		-1.6		2.3		-2.3	
116	1.5		-1.5		2.2		-2.2	
117	1.5		-1.5		2.2		-2.2	
118	1.5		-1.5		2.2		-2.2	
119	1.5		-1.5		2.1		-2.1	
120	1.4		-1.4		2.1		-2.1	
121	1.4		-1.4		2.1		-2.1	
122	1.4		-1.4		2.0		-2.0	
123	1.4		-1.4		2.0		-2.0	
124	1.4		-1.4		2.0		-2.0	
125	1.3		-1.3		1.9		-1.9	
126	1.3		-1.3		1.9		-1.9	
127	1.3		-1.3		1.9		-1.9	
128	1.3		-1.3		1.9		-1.9	
129	1.2		-1.2		1.8		-1.8	
130	1.2		-1.2		1.8		-1.8	
131	1.2		-1.2		1.8		-1.8	
132	1.2		-1.2		1.7		-1.7	
133	1.2		-1.2		1.7		-1.7	
134	1.2		-1.2		1.7		-1.7	
135	1.1		-1.1		1.7		-1.7	
136	1.1		-1.1		1.6		-1.6	
137	1.1		-1.1		1.6		-1.6	
138	1.1		-1.1		1.6		-1.6	
139	1.1		-1.1		1.6		-1.6	
140	1.1		-1.1		1.6		-1.6	
141	1.0		-1.0		1.5		-1.5	
142	1.0		-1.0		1.5		-1.5	

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
143	1.0		-1.0		1.5		-1.5	
144	1.0		-1.0		1.5		-1.5	
145	1.0		-1.0		1.5		-1.5	
146	1.0		-1.0		1.4		-1.4	
147	1.0		-1.0		1.4		-1.4	
148	0.9		-0.9		1.4		-1.4	
149	0.9		-0.9		1.4		-1.4	
150	0.9		-0.9		1.4		-1.4	
151	0.9		-0.9		1.3		-1.3	
152	0.9		-0.9		1.3		-1.3	
153	0.9		-0.9		1.3		-1.3	
154	0.9		-0.9		1.3		-1.3	
155	0.9		-0.9		1.3		-1.3	
156	0.9		-0.9		1.3		-1.3	
157	0.8		-0.8		1.2		-1.2	
158	0.8		-0.8		1.2		-1.2	
159	0.8		-0.8		1.2		-1.2	
160	0.8		-0.8		1.2		-1.2	
161	0.8		-0.8		1.2		-1.2	
162	0.8		-0.8		1.2		-1.2	
163	0.8		-0.8		1.1		-1.1	
164	0.8		-0.8		1.1		-1.1	
165	0.8		-0.8		1.1		-1.1	
166	0.8		-0.8		1.1		-1.1	
167	0.7		-0.7		1.1		-1.1	
168	0.7		-0.7		1.1		-1.1	
169	0.7		-0.7		1.1		-1.1	
170	0.7		-0.7		1.1		-1.1	
171	0.7		-0.7		1.0		-1.0	
172	0.7		-0.7		1.0		-1.0	
173	0.7		-0.7		1.0		-1.0	
174	0.7		-0.7		1.0		-1.0	
175	0.7		-0.7		1.0		-1.0	
176	0.7		-0.7		1.0		-1.0	
177	0.7		-0.7		1.0		-1.0	
178	0.7		-0.7		1.0		-1.0	
179	0.6		-0.6		1.0		-1.0	
180	0.6		-0.6		0.9		-0.9	
181	0.6		-0.6		0.9		-0.9	
182	0.6		-0.6		0.9		-0.9	
183	0.6		-0.6		0.9		-0.9	
184	0.6		-0.6		0.9		-0.9	
185	0.6		-0.6		0.9		-0.9	
186	0.6		-0.6		0.9		-0.9	

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
187	0.6		-0.6		0.9		-0.9	
188	0.6		-0.6		0.9		-0.9	
189	0.6		-0.6		0.9		-0.9	
190	0.6		-0.6		0.8		-0.8	
191	0.6		-0.6		0.8		-0.8	
192	0.6		-0.6		0.8		-0.8	
193	0.6		-0.6		0.8		-0.8	
194	0.5		-0.5		0.8		-0.8	
195	0.5		-0.5		0.8		-0.8	
196	0.5		-0.5		0.8		-0.8	
197	0.5		-0.5		0.8		-0.8	
198	0.5		-0.5		0.8		-0.8	
199	0.5		-0.5		0.8		-0.8	
200	0.5		-0.5		0.8		-0.8	
201	0.5		-0.5		0.8		-0.8	
202	0.5		-0.5		0.7		-0.7	
203	0.5		-0.5		0.7		-0.7	
204	0.5		-0.5		0.7		-0.7	
205	0.5		-0.5		0.7		-0.7	
206	0.5		-0.5		0.7		-0.7	
207	0.5		-0.5		0.7		-0.7	
208	0.5		-0.5		0.7		-0.7	
209	0.5		-0.5		0.7		-0.7	
210	0.5		-0.5		0.7		-0.7	
211	0.5		-0.5		0.7		-0.7	
212	0.5		-0.5		0.7		-0.7	
213	0.5		-0.5		0.7		-0.7	
214	0.4		-0.4		0.7		-0.7	
215	0.4		-0.4		0.7		-0.7	
216	0.4		-0.4		0.7		-0.7	
217	0.4		-0.4		0.6		-0.6	
218	0.4		-0.4		0.6		-0.6	
219	0.4		-0.4		0.6		-0.6	
220	0.4		-0.4		0.6		-0.6	
221	0.4		-0.4		0.6		-0.6	
222	0.4		-0.4		0.6		-0.6	
223	0.4		-0.4		0.6		-0.6	
224	0.4		-0.4		0.6		-0.6	
225	0.4		-0.4		0.6		-0.6	
226	0.4		-0.4		0.6		-0.6	
227	0.4		-0.4		0.6		-0.6	
228	0.4		-0.4		0.6		-0.6	
229	0.4		-0.4		0.6		-0.6	
230	0.4		-0.4		0.6		-0.6	

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Table E-10 – Continued from previous page

Dist (feet)	Duct Bank (+ on left)		Duct Bank (+ on right)		Direct Bury (+ on left)		Direct Bury (+ on right)	
	Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)		Magnetic Field Maximum (mG)	
231	0.4		-0.4		0.6		-0.6	
232	0.4		-0.4		0.6		-0.6	
233	0.4		-0.4		0.6		-0.6	
234	0.4		-0.4		0.6		-0.6	
235	0.4		-0.4		0.6		-0.6	
236	0.4		-0.4		0.5		-0.5	
237	0.4		-0.4		0.5		-0.5	
238	0.4		-0.4		0.5		-0.5	
239	0.4		-0.4		0.5		-0.5	
240	0.4		-0.4		0.5		-0.5	
241	0.4		-0.4		0.5		-0.5	
242	0.4		-0.4		0.5		-0.5	
243	0.3		-0.3		0.5		-0.5	
244	0.3		-0.3		0.5		-0.5	
245	0.3		-0.3		0.5		-0.5	
246	0.3		-0.3		0.5		-0.5	
247	0.3		-0.3		0.5		-0.5	
248	0.3		-0.3		0.5		-0.5	
249	0.3		-0.3		0.5		-0.5	
250	0.3		-0.3		0.5		-0.5	

Attachment F

Output Data for AC Magnetic Field Calculations

Table F-1. Calculated magnetic field levels for the Interconnection Cable

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-500		0.8
-499		0.8
-498		0.8
-497		0.8
-496		0.8
-495		0.9
-494		0.9
-493		0.9
-492		0.9
-491		0.9
-490		0.9
-489		0.9
-488		0.9
-487		0.9
-486		0.9
-485		0.9
-484		0.9
-483		0.9
-482		0.9
-481		0.9
-480		0.9
-479		0.9
-478		0.9
-477		0.9
-476		0.9
-475		0.9
-474		0.9
-473		0.9
-472		0.9
-471		0.9
-470		0.9
-469		0.9
-468		0.9
-467		0.9
-466		0.9
-465		0.9
-464		0.9
-463		0.9
-462		0.9
-461		0.9
-460		0.9
-459		0.9
-458		0.9
-457		0.9

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-456		0.9
-455		0.9
-454		0.9
-453		0.9
-452		0.9
-451		0.9
-450		0.9
-449		0.9
-448		0.9
-447		0.9
-446		0.9
-445		0.9
-444		0.9
-443		1.0
-442		1.0
-441		1.0
-440		1.0
-439		1.0
-438		1.0
-437		1.0
-436		1.0
-435		1.0
-434		1.0
-433		1.0
-432		1.0
-431		1.0
-430		1.0
-429		1.0
-428		1.0
-427		1.0
-426		1.0
-425		1.0
-424		1.0
-423		1.0
-422		1.0
-421		1.0
-420		1.0
-419		1.0
-418		1.0
-417		1.0
-416		1.0
-415		1.0
-414		1.0
-413		1.0

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-412		1.0
-411		1.0
-410		1.0
-409		1.0
-408		1.0
-407		1.0
-406		1.0
-405		1.0
-404		1.0
-403		1.0
-402		1.0
-401		1.0
-400		1.1
-399		1.1
-398		1.1
-397		1.1
-396		1.1
-395		1.1
-394		1.1
-393		1.1
-392		1.1
-391		1.1
-390		1.1
-389		1.1
-388		1.1
-387		1.1
-386		1.1
-385		1.1
-384		1.1
-383		1.1
-382		1.1
-381		1.1
-380		1.1
-379		1.1
-378		1.1
-377		1.1
-376		1.1
-375		1.1
-374		1.1
-373		1.1
-372		1.1
-371		1.1
-370		1.1
-369		1.1

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-368		1.1
-367		1.1
-366		1.2
-365		1.2
-364		1.2
-363		1.2
-362		1.2
-361		1.2
-360		1.2
-359		1.2
-358		1.2
-357		1.2
-356		1.2
-355		1.2
-354		1.2
-353		1.2
-352		1.2
-351		1.2
-350		1.2
-349		1.2
-348		1.2
-347		1.2
-346		1.2
-345		1.2
-344		1.2
-343		1.2
-342		1.2
-341		1.2
-340		1.2
-339		1.2
-338		1.2
-337		1.2
-336		1.3
-335		1.3
-334		1.3
-333		1.3
-332		1.3
-331		1.3
-330		1.3
-329		1.3
-328		1.3
-327		1.3
-326		1.3
-325		1.3

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-324		1.3
-323		1.3
-322		1.3
-321		1.3
-320		1.3
-319		1.3
-318		1.3
-317		1.3
-316		1.3
-315		1.3
-314		1.3
-313		1.3
-312		1.4
-311		1.4
-310		1.4
-309		1.4
-308		1.4
-307		1.4
-306		1.4
-305		1.4
-304		1.4
-303		1.4
-302		1.4
-301		1.4
-300		1.4
-299		1.4
-298		1.4
-297		1.4
-296		1.4
-295		1.4
-294		1.4
-293		1.4
-292		1.4
-291		1.4
-290		1.5
-289		1.5
-288		1.5
-287		1.5
-286		1.5
-285		1.5
-284		1.5
-283		1.5
-282		1.5
-281		1.5

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-280		1.5
-279		1.5
-278		1.5
-277		1.5
-276		1.5
-275		1.5
-274		1.5
-273		1.5
-272		1.5
-271		1.6
-270		1.6
-269		1.6
-268		1.6
-267		1.6
-266		1.6
-265		1.6
-264		1.6
-263		1.6
-262		1.6
-261		1.6
-260		1.6
-259		1.6
-258		1.6
-257		1.6
-256		1.6
-255		1.7
-254		1.7
-253		1.7
-252		1.7
-251		1.7
-250		1.7
-249		1.7
-248		1.7
-247		1.7
-246		1.7
-245		1.7
-244		1.7
-243		1.7
-242		1.7
-241		1.7
-240		1.8
-239		1.8
-238		1.8
-237		1.8

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-236		1.8
-235		1.8
-234		1.8
-233		1.8
-232		1.8
-231		1.8
-230		1.8
-229		1.8
-228		1.9
-227		1.9
-226		1.9
-225		1.9
-224		1.9
-223		1.9
-222		1.9
-221		1.9
-220		1.9
-219		1.9
-218		1.9
-217		1.9
-216		2.0
-215		2.0
-214		2.0
-213		2.0
-212		2.0
-211		2.0
-210		2.0
-209		2.0
-208		2.0
-207		2.0
-206		2.0
-205		2.1
-204		2.1
-203		2.1
-202		2.1
-201		2.1
-200		2.1
-199		2.1
-198		2.1
-197		2.1
-196		2.2
-195		2.2
-194		2.2
-193		2.2

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-192		2.2
-191		2.2
-190		2.2
-189		2.2
-188		2.2
-187		2.3
-186		2.3
-185		2.3
-184		2.3
-183		2.3
-182		2.3
-181		2.3
-180		2.3
-179		2.4
-178		2.4
-177		2.4
-176		2.4
-175		2.4
-174		2.4
-173		2.4
-172		2.5
-171		2.5
-170		2.5
-169		2.5
-168		2.5
-167		2.5
-166		2.5
-165		2.6
-164		2.6
-163		2.6
-162		2.6
-161		2.6
-160		2.6
-159		2.7
-158		2.7
-157		2.7
-156		2.7
-155		2.7
-154		2.7
-153		2.8
-152		2.8
-151		2.8
-150		2.8
-149		2.8

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-148		2.9
-147		2.9
-146		2.9
-145		2.9
-144		2.9
-143		3.0
-142		3.0
-141		3.0
-140		3.0
-139		3.0
-138		3.1
-137		3.1
-136		3.1
-135		3.1
-134		3.2
-133		3.2
-132		3.2
-131		3.2
-130		3.3
-129		3.3
-128		3.3
-127		3.3
-126		3.4
-125		3.4
-124		3.4
-123		3.5
-122		3.5
-121		3.5
-120		3.5
-119		3.6
-118		3.6
-117		3.6
-116		3.7
-115		3.7
-114		3.7
-113		3.8
-112		3.8
-111		3.8
-110		3.9
-109		3.9
-108		3.9
-107		4.0
-106		4.0
-105		4.1

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-104		4.1
-103		4.1
-102		4.2
-101		4.2
-100		4.3
-99		4.3
-98		4.4
-97		4.4
-96		4.5
-95		4.5
-94		4.6
-93		4.6
-92		4.7
-91		4.7
-90		4.8
-89		4.8
-88		4.9
-87		4.9
-86		5.0
-85		5.1
-84		5.1
-83		5.2
-82		5.2
-81		5.3
-80		5.4
-79		5.5
-78		5.5
-77		5.6
-76		5.7
-75		5.8
-74		5.8
-73		5.9
-72		6.0
-71		6.1
-70		6.2
-69		6.3
-68		6.4
-67		6.5
-66		6.6
-65		6.7
-64		6.8
-63		6.9
-62		7.1
-61		7.2

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-60		7.3
-59		7.5
-58		7.6
-57		7.7
-56		7.9
-55		8.0
-54		8.2
-53		8.4
-52		8.6
-51		8.7
-50		8.9
-49		9.2
-48		9.4
-47		9.6
-46		9.8
-45		10.1
-44		10.3
-43		10.6
-42		10.9
-41		11.2
-40		11.6
-39		11.9
-38		12.3
-37		12.7
-36		13.1
-35		13.6
-34		14.1
-33		14.6
-32		15.2
-31		15.9
-30		16.5
-29		17.3
-28		18.1
-27		19.0
-26		20.0
-25		21.2
-24		22.4
-23		23.8
-22		25.4
-21		27.3
-20		29.4
-19		31.8
-18		34.7
-17		37.9

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
-16		41.5
-15		45.4
-14		49.4
-13		53.4
-12		57.3
-11		60.7
-10		63.5
-9		65.2
-8		65.3
-7		63.7
-6		60.5
-5		56.4
-4		52.0
-3		47.8
-2		44.4
-1		42.0
0		41.1
1		41.9
2		44.2
3		47.6
4		51.8
5		56.2
6		60.4
7		63.6
8		65.2
9		65.1
10		63.5
11		60.7
12		57.3
13		53.6
14		49.6
15		45.5
16		41.6
17		38.1
18		34.9
19		32.0
20		29.6
21		27.5
22		25.6
23		24.0
24		22.6
25		21.3
26		20.2
27		19.2

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
28		18.3
29		17.4
30		16.7
31		16.0
32		15.3
33		14.7
34		14.2
35		13.7
36		13.2
37		12.8
38		12.4
39		12.0
40		11.6
41		11.3
42		11.0
43		10.7
44		10.4
45		10.1
46		9.9
47		9.6
48		9.4
49		9.2
50		9.0
51		8.8
52		8.6
53		8.4
54		8.2
55		8.1
56		7.9
57		7.8
58		7.6
59		7.5
60		7.3
61		7.2
62		7.1
63		7.0
64		6.8
65		6.7
66		6.6
67		6.5
68		6.4
69		6.3
70		6.2
71		6.1

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
72		6.0
73		5.9
74		5.9
75		5.8
76		5.7
77		5.6
78		5.5
79		5.5
80		5.4
81		5.3
82		5.3
83		5.2
84		5.1
85		5.1
86		5.0
87		4.9
88		4.9
89		4.8
90		4.8
91		4.7
92		4.7
93		4.6
94		4.6
95		4.5
96		4.5
97		4.4
98		4.4
99		4.3
100		4.3
101		4.2
102		4.2
103		4.2
104		4.1
105		4.1
106		4.0
107		4.0
108		4.0
109		3.9
110		3.9
111		3.8
112		3.8
113		3.8
114		3.7
115		3.7

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
116		3.7
117		3.6
118		3.6
119		3.6
120		3.5
121		3.5
122		3.5
123		3.5
124		3.4
125		3.4
126		3.4
127		3.3
128		3.3
129		3.3
130		3.3
131		3.2
132		3.2
133		3.2
134		3.2
135		3.1
136		3.1
137		3.1
138		3.1
139		3.1
140		3.0
141		3.0
142		3.0
143		3.0
144		2.9
145		2.9
146		2.9
147		2.9
148		2.9
149		2.8
150		2.8
151		2.8
152		2.8
153		2.8
154		2.8
155		2.7
156		2.7
157		2.7
158		2.7
159		2.7

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
160		2.6
161		2.6
162		2.6
163		2.6
164		2.6
165		2.6
166		2.6
167		2.5
168		2.5
169		2.5
170		2.5
171		2.5
172		2.5
173		2.4
174		2.4
175		2.4
176		2.4
177		2.4
178		2.4
179		2.4
180		2.4
181		2.3
182		2.3
183		2.3
184		2.3
185		2.3
186		2.3
187		2.3
188		2.2
189		2.2
190		2.2
191		2.2
192		2.2
193		2.2
194		2.2
195		2.2
196		2.2
197		2.1
198		2.1
199		2.1
200		2.1
201		2.1
202		2.1
203		2.1

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
204		2.1
205		2.1
206		2.1
207		2.0
208		2.0
209		2.0
210		2.0
211		2.0
212		2.0
213		2.0
214		2.0
215		2.0
216		2.0
217		1.9
218		1.9
219		1.9
220		1.9
221		1.9
222		1.9
223		1.9
224		1.9
225		1.9
226		1.9
227		1.9
228		1.9
229		1.8
230		1.8
231		1.8
232		1.8
233		1.8
234		1.8
235		1.8
236		1.8
237		1.8
238		1.8
239		1.8
240		1.8
241		1.8
242		1.7
243		1.7
244		1.7
245		1.7
246		1.7
247		1.7

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
248		1.7
249		1.7
250		1.7
251		1.7
252		1.7
253		1.7
254		1.7
255		1.7
256		1.6
257		1.6
258		1.6
259		1.6
260		1.6
261		1.6
262		1.6
263		1.6
264		1.6
265		1.6
266		1.6
267		1.6
268		1.6
269		1.6
270		1.6
271		1.6
272		1.6
273		1.5
274		1.5
275		1.5
276		1.5
277		1.5
278		1.5
279		1.5
280		1.5
281		1.5
282		1.5
283		1.5
284		1.5
285		1.5
286		1.5
287		1.5
288		1.5
289		1.5
290		1.5
291		1.4

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
292		1.4
293		1.4
294		1.4
295		1.4
296		1.4
297		1.4
298		1.4
299		1.4
300		1.4
301		1.4
302		1.4
303		1.4
304		1.4
305		1.4
306		1.4
307		1.4
308		1.4
309		1.4
310		1.4
311		1.4
312		1.4
313		1.3
314		1.3
315		1.3
316		1.3
317		1.3
318		1.3
319		1.3
320		1.3
321		1.3
322		1.3
323		1.3
324		1.3
325		1.3
326		1.3
327		1.3
328		1.3
329		1.3
330		1.3
331		1.3
332		1.3
333		1.3
334		1.3
335		1.3

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Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
336		1.3
337		1.3
338		1.2
339		1.2
340		1.2
341		1.2
342		1.2
343		1.2
344		1.2
345		1.2
346		1.2
347		1.2
348		1.2
349		1.2
350		1.2
351		1.2
352		1.2
353		1.2
354		1.2
355		1.2
356		1.2
357		1.2
358		1.2
359		1.2
360		1.2
361		1.2
362		1.2
363		1.2
364		1.2
365		1.2
366		1.2
367		1.1
368		1.1
369		1.1
370		1.1
371		1.1
372		1.1
373		1.1
374		1.1
375		1.1
376		1.1
377		1.1
378		1.1
379		1.1

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
380		1.1
381		1.1
382		1.1
383		1.1
384		1.1
385		1.1
386		1.1
387		1.1
388		1.1
389		1.1
390		1.1
391		1.1
392		1.1
393		1.1
394		1.1
395		1.1
396		1.1
397		1.1
398		1.1
399		1.1
400		1.1
401		1.1
402		1.0
403		1.0
404		1.0
405		1.0
406		1.0
407		1.0
408		1.0
409		1.0
410		1.0
411		1.0
412		1.0
413		1.0
414		1.0
415		1.0
416		1.0
417		1.0
418		1.0
419		1.0
420		1.0
421		1.0
422		1.0
423		1.0

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
424		1.0
425		1.0
426		1.0
427		1.0
428		1.0
429		1.0
430		1.0
431		1.0
432		1.0
433		1.0
434		1.0
435		1.0
436		1.0
437		1.0
438		1.0
439		1.0
440		1.0
441		1.0
442		1.0
443		1.0
444		0.9
445		0.9
446		0.9
447		0.9
448		0.9
449		0.9
450		0.9
451		0.9
452		0.9
453		0.9
454		0.9
455		0.9
456		0.9
457		0.9
458		0.9
459		0.9
460		0.9
461		0.9
462		0.9
463		0.9
464		0.9
465		0.9
466		0.9
467		0.9

Continued on next page

Table F-1 – Continued from previous page

Dist (feet)	<u>Interconnection Cable</u>	
	Magnetic Field	Maximum (mG)
468		0.9
469		0.9
470		0.9
471		0.9
472		0.9
473		0.9
474		0.9
475		0.9
476		0.9
477		0.9
478		0.9
479		0.9
480		0.9
481		0.9
482		0.9
483		0.9
484		0.9
485		0.9
486		0.9
487		0.9
488		0.9
489		0.9
490		0.9
491		0.9
492		0.9
493		0.9
494		0.9
495		0.9
496		0.8
497		0.8
498		0.8
499		0.8
500		0.8